

Response to JP-0005, JP-0070 and JP-0074

Agreed.

We will replace the existing Relax NG schemas with the upcoming proposal from the Japanese National body for SC34. It will be incorporated in the final text.

We will make the following changes to allow support for textual schema languages such as RelaxNG.

This is an update to the existing Ecma disposition.

Part 4, §3.2.10 will be updated as follows:

extLst (Future Feature Data Storage Area)

This element provides a convention for extending spreadsheetML in defined locations within the markup specification. The locations shall be denoted with the extLst element, and are called extension lists. Extension list locations within the markup document are specified in the markup specification and can be used to store extensions to the markup specification, whether those are future version extensions of the markup specification or are private extensions implemented independently from the markup specification. Markup within an extension might not be understood by a markup consumer.

extLst elements contain ext elements, called *extensions*. See §3.2.7 for more discussion of extensions.

[*Note*: Allowing markup specification extensions and private markup extensions within an extension list does not violate interoperability because the rules articulated within §3.2.7 and Part 5, §12 describe how markup producers and consumers must generate and consume markup documents containing application defined extension elements, including how to avoid and when to generate error conditions. *end note*]

[\[*Note*: This element is not intended to re-introduce transitional schema into the “strict” conformance class. *end note*\]](#)

Parent Elements
autoFilter (§3.3.1.2); bk (§3.9.2); c (§3.3.1.4); cacheField (§3.10.1.3); cacheHierarchy (§3.10.1.6); cacheSource (§3.10.1.7); calcChain (§3.6.2); calculatedItem (§3.10.1.8); calculatedMember (§3.10.1.10); cellStyle (§3.8.7); cfRule (§3.3.1.10); cfvo (§3.3.1.11); chartsheet (§3.3.1.12); comments (§3.7.6); conditionalFormat (§3.10.1.18); conditionalFormatting (§3.3.1.18); connection (§3.13.1); customSheetView (§3.3.1.25); customWorkbookView (§3.2.3); dataField (§3.10.1.22); dialogsheet (§3.3.1.34); dxf (§3.8.14); externalLink (§3.14.8); filter (§3.10.1.33); filterColumn (§3.3.2.7); format

(§3.10.1.35); futureMetadata (§3.9.4); groupLevel (§3.10.1.39); header (§3.11.1.1); ignoredErrors (§3.3.1.51); metadata (§3.9.8); nc (§3.11.1.3); ndxf (§3.11.1.4); oc (§3.11.1.5); odf (§3.11.1.6); pageField (§3.10.1.62); pivotArea (§3.3.1.68); pivotCacheDefinition (§3.10.1.67); pivotCacheRecords (§3.10.1.68); pivotField (§3.10.1.69); pivotHierarchy (§3.10.1.72); pivotTableDefinition (§3.10.1.73); queryTable (§3.12.2); queryTableField (§3.12.4); queryTableRefresh (§3.12.6); rcc (§3.11.1.9); rd (§3.11.1.13); reference (§3.10.2.1); rfmt (§3.11.1.17); row (§3.3.1.73); rsnm (§3.11.1.22); sheetView (§3.3.1.85); sheetView (§3.3.1.86); sheetViews (§3.3.1.88); sheetViews (§3.3.1.87); singleXmlCell (§3.5.2.1); sortState (§3.3.1.91); sst (§3.4.9); styleSheet (§3.8.39); table (§3.5.1.2); tableColumn (§3.5.1.3); tupleCache (§3.10.1.94); userInfo (§3.11.2.1); volTypes (§3.15.6); workbook (§3.2.27); workbookView (§3.2.30); worksheet (§3.3.1.98); xf (§3.8.45); xmlCellPr (§3.5.2.3); xmlColumnPr (§3.5.1.7); xmlPr (§3.5.2.4)

Child Elements	Subclause
ext (Extension)	§3.2.7

The following W3C XML Schema fragment defines the contents of this element:

```
<complexType name="CT_ExtensionList">
  <sequence>
    <group ref="EG_ExtensionList" minOccurs="0"/>
  </sequence>
</complexType>
```

Part 4, §3.16.1 will be updated as follows:

DataBinding (XML Mapping)

This element contains properties which specify how the XML mapping should work.

[Example:

```
<DataBinding ConnectionID="1" FileBinding="true" DataBindingLoadMode="1"/>
```

end example]

[\[Note: This element is not intended to re-introduce transitional schema into the “strict” conformance class. end note\]](#)

Parent Elements
Map (§3.16.2)

Child Elements	Subclause
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Child Elements	Subclause
Any element in any namespace	n/a

Attributes	Description
ConnectionID (Reference to Connection ID)	<p>Specifies the Connection ID to the external connection in the External Data Connections part.</p> <p>Required if FileBinding is true.</p> <p>The possible values for this attribute are defined by the W3C XML Schema unsignedInt datatype.</p>
DataBindingLoadMode (XML Data Loading Behavior)	<p>Specifies the mode for loading XML data related to this DataBinding.</p> <p>Supported values are as follows:</p> <ul style="list-style-type: none"> 0 - None 1 - Normal 2 - Delay Load 3 - Asynchronous 4 - Object Model <p>The possible values for this attribute are defined by the W3C XML Schema unsignedInt datatype.</p>
DataBindingName (Unique Identifier)	<p>Specifies the data binding name. These shall be unique for each DataBinding.</p> <p><i>[Example:</i> <pre><DataBinding DataBindingName="Binding1" FileBinding="true" FileBindingName="Binding1" DataBindingLoadMode="1"/></pre> <i>end example]</i></p> <p>The possible values for this attribute are defined by the W3C XML Schema string datatype.</p>
FileBinding (Binding to External File)	<p>Specifies whether the data should be retrieved directly from an XML file. The path to the file is in the corresponding connection element</p> <p>The possible values for this attribute are defined by the W3C XML Schema boolean datatype.</p>
FileBindingName (File Binding Name)	<p>Specifies the file binding name. These shall be unique for each DataBinding.</p> <p><i>[Example:</i> <pre><DataBinding DataBindingName="Binding1" FileBinding="true" FileBindingName="Binding1" DataBindingLoadMode="1"/></pre> <i>end example]</i></p>

Attributes	Description
	<p><i>end example]</i></p> <p>The possible values for this attribute are defined by the W3C XML Schema string datatype.</p>

The following W3C XML Schema fragment defines the contents of this element:

```
<complexType name="CT_DataBinding">
  <sequence>
    <any/>
  </sequence>
  <attribute name="DataBindingName" type="xsd:string" use="optional"/>
  <attribute name="FileBinding" type="xsd:boolean" use="optional"/>
  <attribute name="ConnectionID" type="xsd:unsignedInt" use="optional"/>
  <attribute name="FileBindingName" type="xsd:string" use="optional"/>
  <attribute name="DataBindingLoadMode" type="xsd:unsignedInt" use="required"/>
</complexType>
```

Part 4, §4.2.1.11 will be updated as follows:

ext (Extension)

This element specifies an extension that is used for future extensions to the current version of DrawingML. This allows for the specifying of currently unknown elements for later versions of generating applications.

[\[Note: This element is not intended to re-introduce transitional schema into the “strict” conformance class. end note\]](#)

Parent Elements
extLst (§4.2.1.12); extLst (§4.3.1.20)

Child Elements	Subclause
Any element in any namespace	n/a

Attributes	Description
uri (Uniform Resource Identifier)	This attribute specifies the URI, or uniform resource identifier that represents the data stored under this tag. The URI is used to identify the correct 'server' that can process the contents of this tag.

	The possible values for this attribute are defined by the W3C XML Schema token datatype.
--	--

The following W3C XML Schema fragment defines the contents of this element:

```
<complexType name="CT_Extension">
  <sequence>
    <any processContents="lax"/>
  </sequence>
  <attribute name="uri" type="xsd:token"/>
</complexType>
```

Part 4, §5.1.2.1.17 will be updated as follows:

graphicData (Graphic Object Data)

This element specifies the reference to a graphic object within the document. This graphic object is provided entirely by the document authors who choose to persist this data within the document.

[Note: Depending on the kind of graphical object used not every generating application that supports the OOXML framework has the ability to render the graphical object. *end note*]

[\[Note: This element is not intended to re-introduce transitional schema into the “strict” conformance class. *end note*\]](#)

Parent Elements
graphic (§5.1.2.1.17)

Child Elements	Subclause
Any element in any namespace	n/a

Attributes	Description
uri (Uniform Resource Identifier)	<p>Specifies the URI, or uniform resource identifier that represents the data stored under this tag. The URI is used to identify the correct 'server' that can process the contents of this tag.</p> <p>The possible values for this attribute are defined by the W3C XML Schema token datatype.</p>

The following W3C XML Schema fragment defines the contents of this element:

```
<complexType name="CT_GraphicalObjectData">
  <sequence>
    <any minOccurs="0" maxOccurs="unbounded" processContents="strict"/>
  </sequence>
  <attribute name="uri" type="xsd:token"/>
</complexType>
```

Part 4, §5.1.2.1.15 will be updated as follows:

ext (Extension)

This element specifies an extension that is used for future extensions to the current version of DrawingML. This allows for the specifying of currently unknown elements in the future that is used for later versions of generating applications.

[\[Note: This element is not intended to re-introduce transitional schema into the “strict” conformance class. end note\]](#)

1.	Parent Elements
2.	extLst (§5.8.2.13); extLst (§5.1.2.1.16)

3.	Child Elements	4.	Sub lau se
5.	Any element in any namespace	6.	n/a

7.	Attributes	8.	Description
9.	uri (Unifor m Resourc e Identifie r)	10.	Specifies the URI, or uniform resource identifier that represents the data stored under this tag. The URI is used to identify the correct 'server' that can process the contents of this tag.
		11.	
		12.	The possible values for this attribute are defined by the W3C XML Schema token datatype.

The following W3C XML Schema fragment defines the contents of this element:

```
<complexType name="CT_OfficeArtExtension">
  <sequence>
    <any processContents="lax"/>
  </sequence>
  <attribute name="uri" type="xsd:token"/>
</complexType>
```

Part 4, §3.16.4 will be updated as follows:

Schema (XML Schema)

This element contains the XML tree for an attached schema.

[\[Note: This element is not intended to re-introduce transitional schema into the “strict” conformance class. end note\]](#)

Parent Elements
MapInfo (§3.16.3)

Child Elements	Subclause
Any element in any namespace	n/a

Attributes	Description
ID (Schema ID)	<p>Specifies the unique name or ID for this attached schema.</p> <p><i>[Example:</i> ID = "Schema1" <i>end example]</i></p> <p>The possible values for this attribute are defined by the W3C XML Schema string datatype.</p>
Namespace (Schema Root Namespace)	<p>Specifies the namespace used by the schema.</p> <p><i>[Example:</i> <MapInfo SelectionNamespaces="..."> <Schema ID="Schema1" Namespace="..."> <i>end example]</i></p> <p>The possible values for this attribute are defined by the W3C XML Schema string datatype.</p>
SchemaLanguage (Schema)	Specifies the media type of the schema language.

Attributes	Description
Language]	<p>[Example:</p> <p>SchemaLanguage = "application/relax-ng-compact-syntax"</p> <p>end example]]</p> <p>The possible values for this attribute are defined by the W3C XML Schema token datatype.</p>
SchemaRef (Schema Reference)	<p>The schemaRef attribute is used in the specific case where the schema definition happens to include another schema file that contributes to the same namespace. The value of this attribute is the relative path to a "root" schema file on disk which in turn references the other schema files contributing type definitions to the same namespace.</p> <p>The possible values for this attribute are defined by the W3C XML Schema string datatype.</p>

The following W3C XML Schema fragment defines the contents of this element:

```

<complexType name="CT_Schema" mixed="true">
  <sequence mixed="true">
    <any/>
  </sequence>
  <attribute name="ID" type="xsd:string" use="required"/>
  <attribute name="SchemaRef" type="xsd:string" use="optional"/>
  <attribute name="Namespace" type="xsd:string" use="optional"/>
  <attribute name="SchemaLanguage" type="xsd:token" use="optional"/>
</complexType>

```

Part 4, §7.2.1 will be updated as follows:

schema (Custom XML Schema Reference)

This element specifies the properties associated with a single XML namespace, for which all known XML schemas shall be loaded in order to validate the custom XML markup stored within this document. These properties can be used appropriately to locate custom XML schema(s) for use with the document. This Office Open XML Standard does not require any particular XML schema language.

[Note: Some examples of XML schema languages that might be used to implement Custom XML Mappings include:

- W3C XML Schema - <http://www.w3.org/XML/Schema>
- RELAX NG – ISO/IEC 19757-2
- Schematron – ISO/IEC 19757-3
- NVDL – ISO/IEC 19757-4

end note]

[*Example:* Consider a WordprocessingML document which contains custom XML markup in the `http://www.example.com` namespace. The following content would be displayed in the document's schema library data:

```
<w:schemaLibrary>
  <w:schema w:uri="http://www.example.com"
w:schemaLocation="c:\example.xsd" />
</w:schemaLibrary>
```

The schema element contains the properties for this one XML namespace: in this case, a namespace URI of `http://www.example.com` and a file location of `c:\example.xsd`. *end example*]

[\[Note: This element is not intended to re-introduce transitional schema into the “strict” conformance class. end note\]](#)

Parent Elements
schemaLibrary (§7.2.2)

Attributes	Description
manifestLocation (Supplementary XML File Location)	<p>Specifies the location of a supplementary XML file which can be downloaded and parsed when this document is loaded in order to provide additional application-defined capabilities. The contents of this file are application-defined.</p> <p>[<i>Example:</i> Consider a WordprocessingML document which contains custom XML markup in the <code>http://www.example.com</code> namespace, which is associated with a resource file located at <code>http://www.example.com/resource.xml</code>. The following content would be displayed in the document's schema library data:</p> <pre><w:schemaLibrary> <w:schema w:uri="http://www.example.com" w:manifestLocation= "http://www.example.com/resource.xml" /> </w:schemaLibrary></pre> <p>The manifestLocation attribute contains <code>http://www.example.com/manifest.xml</code> which is the location of a resource file that can be downloaded for use when this namespace is used. <i>end example</i>]</p> <p>The possible values for this attribute are defined by the W3C XML Schema string datatype.</p>
SchemaLanguage (Schema Language)	<p>Specifies the media type or the root namespace of the schema language.</p> <p>[<i>Example:</i> SchemaLanguage = "http://relaxng.org/ns/structure/1.0" <i>end example</i>]</p>

Attributes	Description
	<p>The possible values for this attribute are defined by the W3C XML Schema token datatype.</p>
<p>schemaLocation (Custom XML Schema Location)</p>	<p>Specifies the location of the XML schema file which should be downloaded and parsed when this document is loaded.</p> <p><i>[Example: Consider a WordprocessingML document which contains custom XML markup in the http://www.example.com namespace, which is defined by an XML schema located at c:\example.xsd. The following content would be displayed in the document's schema library data:</i></p> <pre data-bbox="483 688 1156 823"> <w:schemaLibrary> <w:schema w:uri="http://www.example.com" w:schemaLocation= "c:\example.xsd" /> </w:schemaLibrary> </pre> <p>The schemaLocation attribute contains c:\example.xsd which is the location of the XML schema file used when this namespace is used. <i>end example]</i></p> <p>The possible values for this attribute are defined by the W3C XML Schema string datatype.</p>
<p>uri (Custom XML Schema Namespace)</p>	<p>Specifies the target namespace for the XML Schema associated with this schema reference.</p> <p><i>[Example: Consider the following content for custom XML namespace data:</i></p> <pre data-bbox="483 1243 1302 1360"> ... <w:schema w:uri="http://www.example.com/schema1" /> <w:schema w:uri="http://www.example.com/schema2" /> ... </pre> <p>The uri attribute specifies the target namespace of each XML schema reference:</p> <ul data-bbox="493 1440 980 1503" style="list-style-type: none"> • http://www.example.com/schema1 • http://www.example.com/schema2 <p>Applications can then locate and utilize a schema for these namespaces using any means available. <i>end example]</i></p> <p>The possible values for this attribute are defined by the W3C XML Schema string datatype.</p>

The following W3C XML Schema fragment defines the contents of this element:

```
<complexType name="CT_Schema">
  <attribute name="uri" type="xsd:string" default=""/>
  <attribute name="manifestLocation" type="xsd:string"/>
  <attribute name="schemaLocation" type="xsd:string"/>
  <attribute name="schemaLanguage" type="xsd:token"/>
</complexType>
```

Part 4, §A.5.1.2.22 will be updated as follows:

A.1.1.1.1 `textbox` (Text Box)

This element is used to define text that appears inside the shape. This text can contain rich formatting and is rendered to fit inside the `textboxrect` defined by the `path` element (§A.5.1.2.14).

[Example:

```
<v:shape style="width=200;height=200" coordsize="400,400"
  fillcolor="yellow" strokecolor="maroon"
  path="m 119,0 l 148,86 238,86 166,140 192,226 119,175 46,226
  72,140 0,86 90,86 x e">
  <v:textbox inset="32pt,35pt,, ">VML</v:textbox>
</v:shape>
```



end example]

Parent Elements
Parent Elements
arc (§A.5.1.2.1); background (§2.2.1); curve (§A.5.1.2.3); group (§A.5.1.2.7); image (§A.5.1.2.10); line (§A.5.1.2.12); object (§2.3.3.19); oval (§A.5.1.2.13); pict (§A.1.1.2.2); pict (§A.1.4.1); polyline (§A.5.1.2.15); rect (§A.5.1.2.16); roundrect (§A.5.1.2.17); shape (§A.5.1.2.19); shapedefaults (§A.5.2.2.27); shapetype (§A.5.1.2.20)

Child Elements	Subclause
txbxContent (Rich Text Box Content Container)	§A.1.7.1.1

Any element in the <code>##local namespace</code>	n/a
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Attributes	Description
<p>id (Unique Identifier)</p>	<p>Specifies a unique identifier that can be used to reference a VML object.</p> <p>Default is no value.</p> <p>[Example:</p> <pre data-bbox="483 800 980 898"> <v:shape ... id="myShape" ... > </v:shape> </pre> <p>end example]</p> <p>The possible values for this attribute are defined by the W3C XML Schema string datatype.</p>
<p>inset (Text Box Inset)</p>	<p>Specifies inner margin values for textbox text. Default is "0.1in, 0.05in, 0.1in, 0.05in". Missing values are set to the default. This is used if insetmode is custom.</p> <p>The internal text margin value is specified as a string containing four values, each separated by commas or spaces. The values measure inset from the left, top, right, and bottom edges of the box specified by the textboxrect attribute of the path element (§A.5.1.2.14).</p> <p>[Example: The text is set toward the lower right of a small square:</p> <pre data-bbox="483 1822 1105 1856"> <v:textbox inset="20pt, 30pt, 10pt, 10pt"> </pre>

Attributes	Description
	<p data-bbox="516 247 756 279">VML</v:textbox></p> <div data-bbox="444 380 596 531" style="border: 1px solid black; padding: 5px; width: fit-content; margin: 10px auto;"> <p data-bbox="496 464 566 495" style="text-align: center;">VML</p> </div> <p data-bbox="444 632 605 663"><i>end example]</i></p> <p data-bbox="444 768 1401 842">The possible values for this attribute are defined by the W3C XML Schema string datatype.</p>
<p data-bbox="188 888 391 961">insetmode (Text Inset Mode)</p> <p data-bbox="188 1066 402 1213">Namespace: urn:schemas-microsoft-com:office:office</p>	<p data-bbox="444 888 1382 961">Specifies whether the application calculates the internal text margin instead of using the inset attribute. Default is custom.</p> <p data-bbox="444 1066 565 1098"><i>[Example:</i></p> <pre data-bbox="483 1199 1105 1293" style="margin-left: 40px;"> <v:textbox ... o:insetmode="auto" ... > </v:textbox> </pre> <p data-bbox="444 1398 605 1430"><i>end example]</i></p> <p data-bbox="444 1535 1398 1608">The possible values for this attribute are defined by ST_InsetMode simple type (§A.5.2.3.16).</p>
<p data-bbox="188 1654 391 1770">singleclick (Text Box Single-Click Selection Toggle)</p>	<p data-bbox="444 1654 1287 1686">Specifies whether text is selectable with a single click. Default is false.</p> <p data-bbox="444 1791 1393 1864">The possible values for this attribute are defined by ST_TrueFalse simple type (§A.6.1.1.5).</p>

Attributes	Description						
Namespace: urn:schemas-microsoft-com:office:office							
style (Shape Styling Properties)	<p>Specifies the CSS2 styling properties of the shape. The CSS2 (Cascading Style Sheets, Level 2) specification, a Recommendation of the World Wide Web Consortium, is available here: http://www.w3.org/TR/REC-CSS2.</p> <p>This attribute uses a semi-colon delimited list of “name:value” pairs, the syntax defined by section 4.1.8 of the CSS2 specification for grouped declarations (without the surrounding braces). The following tables define the allowed properties and the VML treatment of each.</p> <p>[Example:</p> <pre> <v:shape ... style='position:absolute;width:100pt;height:50pt' ... > </v:shape> </pre> <p>end example]</p> <table border="1" data-bbox="444 1289 1421 1827"> <thead> <tr> <th data-bbox="444 1289 675 1369">Property</th> <th data-bbox="675 1289 1421 1369">Description</th> </tr> </thead> <tbody> <tr> <td data-bbox="444 1369 675 1705">flip</td> <td data-bbox="675 1369 1421 1705"> Specifies that the orientation of a shape is flipped. Default is no value. Allowed values are: <ul style="list-style-type: none"> • x - Flip along the y-axis, reversing the x-coordinates. • y - Flip along the x-axis, reversing the y-coordinates. • xy - Flip along both the y- and x-axis. • yx - Flip along both the x- and y-axis. </td> </tr> <tr> <td data-bbox="444 1705 675 1827">height</td> <td data-bbox="675 1705 1421 1827"> Specifies the height of the containing block of the shape. Default is 0. It is specified in CSS units or, for elements in a group, in the coordinate system of the parent element. </td> </tr> </tbody> </table>	Property	Description	flip	Specifies that the orientation of a shape is flipped. Default is no value. Allowed values are: <ul style="list-style-type: none"> • x - Flip along the y-axis, reversing the x-coordinates. • y - Flip along the x-axis, reversing the y-coordinates. • xy - Flip along both the y- and x-axis. • yx - Flip along both the x- and y-axis. 	height	Specifies the height of the containing block of the shape. Default is 0. It is specified in CSS units or, for elements in a group, in the coordinate system of the parent element.
Property	Description						
flip	Specifies that the orientation of a shape is flipped. Default is no value. Allowed values are: <ul style="list-style-type: none"> • x - Flip along the y-axis, reversing the x-coordinates. • y - Flip along the x-axis, reversing the y-coordinates. • xy - Flip along both the y- and x-axis. • yx - Flip along both the x- and y-axis. 						
height	Specifies the height of the containing block of the shape. Default is 0. It is specified in CSS units or, for elements in a group, in the coordinate system of the parent element.						

Attributes	Description	
		<p>Allowed values are:</p> <ul style="list-style-type: none"> • auto - Default position of an element in the flow of the page. • <units>- A number with an absolute units designator (cm, mm, in, pt, pc, or px) or a relative units designator (em or ex). If no units are given, pixels (px) is assumed. • <percentage>- Value expressed as a percentage of the parent object's height.
	left	<p>Specifies the position of the left of the containing block of the shape relative to the element left of it in the flow of the page. Default is 0. It is specified in CSS units or, for elements in a group, in the coordinate system of the parent element. This property shall not be used for shapes anchored inline. Allowed values are:</p> <ul style="list-style-type: none"> • auto - Default position of an element in the flow of the page. • <units> - A number with an absolute units designator (cm, mm, in, pt, pc, or px) or a relative units designator (em or ex). If no units are given, pixels (px) is assumed. • <percentage>- Value expressed as a percentage of the parent object's width.
	margin-bottom	<p>Specifies the position of the bottom of the containing block of the shape relative to the shape anchor. Default is 0. It is specified in CSS units or, for elements in a group, in the coordinate system of the parent element. Allowed values are:</p> <ul style="list-style-type: none"> • auto - Default position of an element in the flow of the page. • <units>- A number with an absolute units designator (cm, mm, in, pt, pc, or px) or a relative units designator (em or ex). If no units are given, pixels (px) is assumed. • <percentage>- Value expressed as a percentage of

Attributes	Description	
		the parent object's height.
	margin-left	<p>Specifies the position of the left of the containing block of the shape relative to the shape anchor. Default is 0. It is specified in CSS units or, for elements in a group, in the coordinate system of the parent element. Allowed values are:</p> <ul style="list-style-type: none"> • auto - Default position of an element in the flow of the page. • <units>- A number with an absolute units designator (cm, mm, in, pt, pc, or px) or a relative units designator (em or ex). If no units are given, pixels (px) is assumed. • <percentage>- Value expressed as a percentage of the parent object's width.
	margin-right	<p>Specifies the position of the right of the containing block of the shape relative to the shape anchor. Default is 0. It is specified in CSS units or, for elements in a group, in the coordinate system of the parent element. Allowed values are:</p> <ul style="list-style-type: none"> • auto - Default position of an element in the flow of the page. • <units> - A number with an absolute units designator (cm, mm, in, pt, pc, or px) or a relative units designator (em or ex). If no units are given, pixels (px) is assumed. • <percentage>- Value expressed as a percentage of the parent object's width.
	margin-top	<p>Specifies the position of the top of the containing block of the shape relative to the shape anchor. Default is 0. It is specified in CSS units or, for elements in a group, in the coordinate system of the parent element. Allowed values are:</p> <ul style="list-style-type: none"> • auto - Default position of an element in the flow of the page.

Attributes	Description	
		<ul style="list-style-type: none"> • <units>- A number with an absolute units designator (cm, mm, in, pt, pc, or px) or a relative units designator (em or ex). If no units are given, pixels (px) is assumed. • <percentage>- Value expressed as a percentage of the parent object's height.
	mso-position-horizontal	<p>Specifies the horizontal positioning data for objects in WordprocessingML documents. Default is absolute. Allowed values are:</p> <ul style="list-style-type: none"> • absolute • left • center • right • inside • outside
	mso-position-horizontal-relative	<p>Specifies relative horizontal position data for objects in WordprocessingML documents. This modifies the mso-position-horizontal property. Default is text. Allowed values are:</p> <ul style="list-style-type: none"> • margin • page • text • char
	mso-position-vertical	<p>Specifies the vertical positioning data for objects in WordprocessingML documents. Default is absolute. Allowed values are:</p> <ul style="list-style-type: none"> • absolute

Attributes	Description	
		<ul style="list-style-type: none"> • top • center • bottom • inside • outside
	mso-position-vertical-relative	<p>Specifies relative vertical position data for objects in WordprocessingML documents. This modifies the mso-position-vertical property. Default is text. Allowed values are:</p> <ul style="list-style-type: none"> • margin • page • text • line
	mso-wrap-distance-bottom	<p>Specifies the distance from the bottom of the shape to the text that wraps around it. Default is 0 pt. This property is different from the CSS margin property, which changes the origin of the shape to include the margin areas. This property does not change the origin.</p>
	mso-wrap-distance-left	<p>Specifies the distance from the left side of the shape to the text that wraps around it. Default is 0 pt. This property is different from the CSS margin property, which changes the origin of the shape to include the margin areas. This property does not change the origin.</p>
	mso-wrap-distance-right	<p>Specifies the distance from the right side of the shape to the text that wraps around it. Default is 0 pt. This property is different from the CSS margin property, which changes the origin of the shape to include the margin areas. This property does not change the origin.</p>
	mso-wrap-	<p>Specifies the distance from the top of the shape to the text</p>

Attributes	Description	
	distance-top	that wraps around it. Default is 0 pt. This property is different from the CSS margin property, which changes the origin of the shape to include the margin areas. This property does not change the origin.
	mso-wrap-edited	Specifies whether the wrap coordinates were customized by the user. If the wrap coordinates are generated by an editor, this property is true; otherwise they were customized by a user. Default is false.
	mso-wrap-style	<p>Specifies the wrapping mode for text in shapes in WordprocessingML documents. Default is square. Allowed values are:</p> <ul style="list-style-type: none"> • square - Wraps text inside the shape in a square. • none - Text does not wrap.
	position	<p>Specifies the kind of positioning used to place an element. Default is static. When the element is contained inside a group, this property shall be absolute. Allowed values are:</p> <ul style="list-style-type: none"> • static - The element is positioned according to the normal flow of the page. The top and left properties are ignored. If the object is anchored inline, this value is used. • absolute - The element is positioned relative to the parent, using the top and left properties. • relative - The element is positioned according to the normal flow of the page, but the top and left properties are used. The overlap of overlapping elements is governed by the z-index property.
	rotation	Specifies the angle that a shape is rotated, in degrees. Default is 0. Positive angles are clockwise.
	top	Specifies the position of the top of the containing block of the shape relative to the element above it in the flow of the page. Default is 0. It is specified in CSS units or, for elements in a group, in the coordinate system of the parent element. This property shall not be used for shapes

Attributes	Description	
		<p>anchored inline. Allowed values are:</p> <ul style="list-style-type: none"> • auto - Default position of an element in the flow of the page. • <units>- A number with an absolute units designator (cm, mm, in, pt, pc, or px) or a relative units designator (em or ex). If no units are given, pixels (px) is assumed. • <percentage>- Value expressed as a percentage of the parent object's height.
	visibility	<p>Specifies whether a shape is displayed. Only inherit and hidden are used; any other values are mapped to inherit. Default is inherit. Allowed values are:</p> <ul style="list-style-type: none"> • hidden - The shape is not visible, but is still part of the flow of the objects in the browser. Mouse events are not processed. • inherit - The visibility state is inherited from the parent of the shape.
	width	<p>Specifies the width of the containing block of the shape. Default is 0. It is specified in CSS units or, for elements in a group, in the coordinate system of the parent element. Allowed values are:</p> <ul style="list-style-type: none"> • auto - Default position of an element in the flow of the page. • <units>- A number with an absolute units designator (cm, mm, in, pt, pc, or px) or a relative units designator (em or ex). If no units are given, pixels (px) is assumed. • <percentage>- Value expressed as a percentage of the parent object's width.
	z-index	<p>Specifies the display order of overlapping shapes. Default is 0. This property shall not be used for shapes anchored inline. Allowed values are:</p>

Attributes	Description	
		<ul style="list-style-type: none"> • auto - Uses the order that the shapes appear in the page, bottom to top. • <order>- A number that represents the stacking precedence. Shapes with higher numbers are placed on top of those with lower numbers. Negative numbers are allowed.
<p>The following properties are only used by the textbox element (§A.5.1.2.22):</p>		
	Property	Description
	direction	<p>Specifies the direction of the text in the textbox. Default is ltr. This property is superceded by the mso-direction-alt property if that is specified. Allowed values are:</p> <ul style="list-style-type: none"> • ltr - Text is displayed left-to-right. • rtl - Text is displayed right-to-left.
	layout-flow	<p>Determines the flow of the text layout in a textbox. Default is horizontal. Allowed values are:</p> <ul style="list-style-type: none"> • horizontal - Text is displayed horizontally. • vertical - Text is displayed vertically. • vertical-ideographic - Ideographic text is displayed vertically. • horizontal-ideographic - Ideographic text is displayed horizontally.
	mso-direction-alt	<p>Specifies an alternate direction for text in textboxes. Overrides the direction property. The only allowed value is context.</p>
	mso-fit-shape-to-text	<p>Specifies whether the shape stretches to fit the text in the textbox. Default is false.</p>

Attributes	Description	
	mso-fit-text-to-shape	Specifies whether the text stretches to fit the textbox. Default is false.
	mso-layout-flow-alt	Specifies the alternate layout flow for text in textboxes. This property is used instead of layout-flow when the layout flow is from bottom to top for non-ideographic languages. Its only value is bottom-to-top.
	mso-next-textbox	Specifies the ID of the next textbox in a series. Used to keep track of a set of linked textboxes. Default is no value.
	mso-rotate	<p>Specifies a specific rotation value for text in a textbox. Default is 0. Allowed values are:</p> <ul style="list-style-type: none"> • 0 • 90 • 180 • -90
	mso-text-scale	Specifies the scaling factor for fitting text to shapes. Default is 0. This property is only used if mso-fit-text-to-shape is true.
	v-text-anchor	<p>Specifies the vertical anchoring of text in a textbox. Default is top. The alignment of a text anchor only becomes evident if mso-fit-text-to-shape is false. This property is different from the vertical-align CSS property, which is used for ideographic languages. Allowed values are:</p> <ul style="list-style-type: none"> • top • middle • bottom • top-center • middle-center • bottom-center

Attributes	Description	
		<ul style="list-style-type: none"> • top-baseline • bottom-baseline • top-center-baseline • bottom-center-baseline
	<p>The following properties are only used by the textpath element (§A.5.1.2.23):</p>	
	Property	Description
	font	Specifies a compound value of font settings. Default is no value. The values are the same as those of the CSS font property. The order of definitions in the string is: font-style, font-variant, font-weight, font-size, line-height, font-family.
	font-family	Specifies the family of the font. Default is no value. The values are the same as those of the CSS font-family property.
	font-size	Specifies the size of the font. Default is no value. The font size is defined in points. The values are the same as those of the CSS font-size property.
	font-style	<p>Specifies the amount of slant for a font. Default is normal. The values are the same as those of the CSS font-style property. Allowed values are:</p> <ul style="list-style-type: none"> • normal • italic • oblique - Treated the same as italic.
	font-variant	Specifies the variant style of a font. Default is normal. The values are the same as those of the CSS font-variant property. Allowed values are:

Attributes	Description							
		<ul style="list-style-type: none"> • normal • small-caps 						
	font-weight	<p>Specifies the thickness of the letters of the font. Default is normal. The values are the same as those of the CSS font-weight property. Allowed values are:</p> <table border="1" data-bbox="690 583 1416 1495"> <thead> <tr> <th data-bbox="690 583 873 661">Value</th> <th data-bbox="873 583 1416 661">Description</th> </tr> </thead> <tbody> <tr> <td data-bbox="690 661 873 1045"> normal lighter 100 200 300 400 </td> <td data-bbox="873 661 1416 1045">Treated as non-bold.</td> </tr> <tr> <td data-bbox="690 1045 873 1495"> bold bolder 500 600 700 800 900 </td> <td data-bbox="873 1045 1416 1495">Treated as bold.</td> </tr> </tbody> </table>	Value	Description	normal lighter 100 200 300 400	Treated as non-bold.	bold bolder 500 600 700 800 900	Treated as bold.
	Value	Description						
	normal lighter 100 200 300 400	Treated as non-bold.						
bold bolder 500 600 700 800 900	Treated as bold.							
mso-text-shadow	Specifies whether a shadow is applied to the text on a text path. Default is false.							
text-decoration	Specifies the style of text decoration. Default is none. The values are the same as those of the CSS text-decoration property. Allowed values are:							

Attributes	Description	
		<ul style="list-style-type: none"> • none • underline • overline • line-through • blink
	v-rotate-letters	Specifies whether the letters of the text are rotated counterclockwise by 90 degrees. Default is false.
	v-same-letter-heights	Specifies whether all letters are the same height regardless of initial case. If true, the lowercase letters are stretched to the height of the uppercase letters. Default is false.
	v-text-align	<p>Specifies the alignment of text. Default is left. Allowed values are:</p> <ul style="list-style-type: none"> • left • right • center • justify • letter-justify - Distributes the extra space between the letters. • stretch-justify - Stretches the letters to fill in the space.
	v-text-kern	Specifies whether kerning is turned on. Default is false.
	v-text-reverse	Specifies whether the layout order of rows is reversed. Default is false. This is used for vertical text layout.
	v-text-spacing-mode	Specifies the mode for letter spacing. Default is tightening. This property determines whether space is removed between each letter (tightening) or added between each letter (tracking). The amount of letter spacing change is defined by the v-text-spacing property.

Attributes	Description	
		<p>Allowed values are:</p> <ul style="list-style-type: none"> • tightening • tracking
v-text-spacing		<p>Specifies the amount of spacing for text in 100ths of single line spacing. Default is 100.</p>
	<p>The line (§A.5.1.2.12), polyline (§A.5.1.2.15) and curve (§A.5.1.2.3) elements ignore the following properties:</p> <ul style="list-style-type: none"> • top • left • width • height <p>The following properties are not inherited by an element that references a shapetype element (§A.5.1.2.20) via the id attribute:</p> <ul style="list-style-type: none"> • flip • height • left • margin-left • margin-top • position • rotation • top • visibility 	

Attributes	Description
	<ul style="list-style-type: none">• width• z-index <p>The possible values for this attribute are defined by the W3C XML Schema string datatype.</p>

The following W3C XML Schema fragment defines the contents of this element:

```
<complexType name="CT_Textbox">
  <choice>
    <element ref="w:txbxContent" minOccurs="0"/>
    <any namespace="##local" processContents="skip"/>
  </choice>
  <attributeGroup ref="AG_Id"/>
  <attributeGroup ref="AG_Style"/>
  <attribute name="inset" type="xsd:string" use="optional"/>
  <attribute ref="o:singleclick"/>
  <attribute ref="o:insetmode"/>
</complexType>
```