#### dataBinding (XML Mapping)

This element specifies the information which shall be used to establish a mapping [between](between.docx) the parent structured document [tag](tag.docx) and an [XML](XML.docx) element stored within a Custom [XML](XML.docx) Data part in the current WordprocessingML document.

If this element is omitted, then no [XML](XML.docx) mapping shall be associated with the current structured document tag. If the parent structured document [tag](tag.docx) is of [type](type.docx) rich text or document part [gallery](gallery.docx), then this property shall be ignored.

If this element is present and the parent structured document [tag](tag.docx) is not of a rich text [type](type.docx), then the current value of the structured document [tag](tag.docx) shall be determined by finding the [XML](XML.docx) element (if any) which is determined by the attributes on this element. If this information does not [result](result.docx) in a valid [XML](XML.docx) element, then the application may use any algorithm desired to find the closest available match. If this information does [result](result.docx) in a valid [XML](XML.docx) element, then the contents of that element shall be used to replace the current run content within the document.

[Example: Consider the following structured document tag:

<w:[sdt](sdt.docx)>
 <w:[sdtPr](sdtPr.docx)>
 <w:dataBinding w:xpath="/root/name/first" … />
 <w:text/>
 </w:[sdtPr](sdtPr.docx)>
 <w:[sdtContent](sdtContent.docx)>
 <w:[r](r.docx)>
 <w:[t](t.docx)>old text</w:[t](t.docx)>
 </w:[r](r.docx)>
 </w:[sdtContent](sdtContent.docx)>
</w:[sdt](sdt.docx)>

This structured document [tag](tag.docx) specifies that it contains only plain text via the text element, and that it shall be mapped to the element in the first Custom [XML](XML.docx) Data part which contains an element that matches the XPath expression /root/name/first. When that element is located, its contents shall replace the existing run content in the document (for example, if its contents are new text, then the contents of the run for this structured document [tag](tag.docx) shall be new text when the document is displayed. end example]

|  |
| --- |
| Parent Elements |
| [sdtPr](sdtPr.docx) (§) |

|  |  |
| --- | --- |
| Attributes | Description |
| prefixMappings (XML Namespace Prefix Mappings) | Specifies the set of prefix mappings which shall be used to interpret the XPath expression specified on the xpath attribute when the XPath expression is evaluated against the custom [XML](XML.docx) data parts in the current document.This attribute's value shall be specified using the following syntax: xmlns:prefix='namespace', where prefix is the namespace prefix to be mapped, and namespace is the namespace to be mapped to the current prefix. Each prefix mapping shall be delimited by one or more whitespace characters in the attribute's contents.If this attribute is omitted, then the prefix mappings specified on each of the custom [XML](XML.docx) data parts itself shall be used to evaluate the given XPath expression.[Example: Consider the following structured document [tag](tag.docx) properties:<w:[sdtPr](sdtPr.docx)> <w:dataBinding w:xpath="//ns0:book" w:prefixMapping="xmlns:ns0='http://example.com/example'"/> <w:[text](text.docx)/></w:[sdtPr](sdtPr.docx)>This structured document [tag](tag.docx) specifies that it contains an [XML](XML.docx) mapping, and that mapping's prefixMapping attribute shall signify that the set of namespace prefix mappings to be used to evaluate the xpath attribute value shall be xmlns:ns0= 'http://example.com/example'. end example]The possible values for this attribute are defined by the [ST\_String](ST_String.docx) simple [type](type.docx) (§). |
| storeItemID (Custom [XML](XML.docx) Data Storage ID) | Specifies the custom [XML](XML.docx) data identifier for the custom [XML](XML.docx) data part which shall be used to evaluate the given XPath expression. The custom [XML](XML.docx) data identifier, specified using the storeItemID attribute of the dataStoreItem element (§) on the Custom [XML](XML.docx) Data Properties part is a string that uniquely identifies a particular custom [XML](XML.docx) data part in a WordprocessingML document (as multiple parts may have the same namespace for their root element).If specified, then the XPath expression specified on the xpath attribute shall only be evaluated against the custom [XML](XML.docx) data part whose properties part has a matching custom [XML](XML.docx) data identifier. If no custom [XML](XML.docx) data part exists with a matching identifier, then the [XML](XML.docx) mapping shall not be connected. If omitted, then the XPath expression shall be evaluated against each custom [XML](XML.docx) data part in turn until the given XPath expression is resolved to an [XML](XML.docx) element.[Example: Consider the following structured document [tag](tag.docx) properties:<w:[sdtPr](sdtPr.docx)> <w:dataBinding w:xpath="//ns0:book" w:storeItemID="testXmlPart"/> <w:[text](text.docx)/></w:[sdtPr](sdtPr.docx)>This structured document [tag](tag.docx) specifies that it contains an [XML](XML.docx) mapping, and that mapping shall only be evaluated against the custom [XML](XML.docx) part whose identifier is equal to testXmlPart (if one exists). end example] The possible values for this attribute are defined by the [ST\_String](ST_String.docx) simple [type](type.docx) (§). |
| xpath (XPath) | Specifies the XPath expression which shall be evaluated to find the custom [XML](XML.docx) node which is mapped to the parent structured document tag. This XPath expression shall be specified using the syntax defined in the [XML](XML.docx) Path Language (XPath) Version 1.0 specification (see Annex A for bibliographic reference information).[Example: Consider the following structured document [tag](tag.docx) properties:<w:[sdtPr](sdtPr.docx)> <w:dataBinding w:xpath="//ns0:book" w:prefixMapping="xmlns:ns0='http://example.com/example'"/> <w:[text](text.docx)/></w:[sdtPr](sdtPr.docx)>This structured document [tag](tag.docx) specifies that it contains an [XML](XML.docx) mapping, and that mapping's xpath attribute shall signify that the XPath expression to be evaluated shall be //ns0:book. Because the prefixMapping attribute is also specified, those prefix mappings shall be used to evaluate this XPath expression. end example]The possible values for this attribute are defined by the [ST\_String](ST_String.docx) simple [type](type.docx) (§). |

The following [XML](XML.docx) Schema fragment defines the contents of this element:

<complexType [name](name.docx)="CT\_DataBinding">

 <attribute [name](name.docx)="prefixMappings" [type](type.docx)="[ST\_String](ST_String.docx)"/>

 <attribute [name](name.docx)="xpath" [type](type.docx)="[ST\_String](ST_String.docx)" use="required"/>

 <attribute [name](name.docx)="storeItemID" [type](type.docx)="[ST\_String](ST_String.docx)" use="required"/>

</complexType>