#### [cxnSp](cxnSp.docx) (Connection Shape)

This element specifies a connection shape that is used to connect two [sp](sp.docx) elements. Once a connection is specified using a [cxnSp](cxnSp.docx), it is left to the generating application to determine the exact [path](path.docx) the connector will take. That is the connector routing algorithm is left [up](up.docx) to the generating application as the desired [path](path.docx) might be different depending on the specific needs of the application.



[Example: Consider the following connector shape that connects two regular shapes.

<cp:grpSp>

..

<cp:sp>

<cp:nvSpPr>

<cp:cNvPr id="1" name="Rectangle 1"/>

<cp:cNvSpPr/>

<cp:nvPr/>

</cp:nvSpPr>

..

</cp:sp>

<cp:sp>

<cp:nvSpPr>

<cp:cNvPr id="2" name="Rectangle 2"/>

<cp:cNvSpPr/>

<cp:nvPr/>

</cp:nvSpPr>

..

</cp:sp>

<cp:cxnSp>

<cp:nvCxnSpPr>

<cp:cNvPr id="3" name="Elbow Connector 3"/>

<cp:cNvCxnSpPr>

<a:stCxn id="1" [idx](idx.docx)="3"/>

<a:endCxn id="2" [idx](idx.docx)="1"/>

</cp:cNvCxnSpPr>

<cp:nvPr/>

</cp:nvCxnSpPr>

…

</cp:cxnSp>

</cp:grpSp>

End example]

|  |
| --- |
| Parent Elements |
| [absSizeAnchor](absSizeAnchor.docx) (§); [grpSp](grpSp.docx) (§); [relSizeAnchor](relSizeAnchor.docx) (§) |

|  |  |
| --- | --- |
| Child Elements | Subclause |
| [nvCxnSpPr](nvCxnSpPr.docx) (Connector Non Visual Properties) | § |
| [spPr](spPr.docx) (Shape Properties) | § |
| [style](style.docx) (Shape Style) | § |

|  |  |
| --- | --- |
| Attributes | Description |
| fPublished (Publish [to](to.docx) Server) | Specifies whether the shape shall be published with the worksheet when sent to the spreadsheet server. This is for use when interfacing with a document server.  [Example: Consider the following shape that will not be published with the worksheet when it is published back on the spreadsheet server.  <cdr:relSizeAnchor>  ..  <cdr:sp fPublished="0">  ..  </cdr:sp>  ..  </cdr:relSizeAnchor>  [end](end.docx) example]  The possible values for this attribute are defined by the XML Schema boolean datatype. |
| macro (Reference to Custom Function) | This element specifies the custom function associated with the chart. [Example: A macro script, add-in function, and so on. [end](end.docx) example]  The format of this string shall be application-defined, and should be ignored if not understood.  [Example:  <cdr:... macro="DoWork()" >  [end](end.docx) example]  The possible values for this attribute are defined by the XML Schema string datatype. |

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

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

<sequence>

<element name="[nvCxnSpPr](nvCxnSpPr.docx)" type="CT\_ConnectorNonVisual" minOccurs="1" maxOccurs="1"/>

<element name="[spPr](spPr.docx)" type="a:CT\_ShapeProperties" minOccurs="1" maxOccurs="1"/>

<element name="style" type="a:CT\_ShapeStyle" minOccurs="0" maxOccurs="1"/>

</sequence>

<attribute [name](name.docx)="macro" type="xsd:string" use="optional"/>

<attribute name="fPublished" type="xsd:boolean" use="optional" default="false"/>

</complexType>