#### [cxn](cxn.docx) (Connection)

This element defines a connection between two points. A connection defines a relationship between two points in a diagram.

[Example: Consider the following example of a [cxn](cxn.docx) in DiagramML:

<[cxnLst](cxnLst.docx)>

 <[cxn](cxn.docx) modelId="7" srcId="0" destId="1" srcOrd="0" destOrd="0"/>

 <[cxn](cxn.docx) modelId="8" srcId="0" destId="2" srcOrd="1" destOrd="0"/>

 <[cxn](cxn.docx) modelId="9" srcId="0" destId="3" srcOrd="2" destOrd="0"/>

 <[cxn](cxn.docx) modelId="10" srcId="0" destId="4" srcOrd="3" destOrd="0"/>

 <[cxn](cxn.docx) modelId="11" srcId="0" destId="5" srcOrd="4" destOrd="0"/>

 <[cxn](cxn.docx) modelId="12" srcId="0" destId="6" srcOrd="5" destOrd="0"/>

</[cxnLst](cxnLst.docx)>

In this example we see 6 [cxn](cxn.docx) elements defined within a [cxnLst](cxnLst.docx) element (§). In this example, a relationship is being defined between point 0 and every other point in the diagram. [end](end.docx) example]

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

|  |  |
| --- | --- |
| Child Elements | Subclause |
| [extLst](extLst.docx) (Extension List) | § |

|  |  |
| --- | --- |
| Attributes | Description |
| destId (Destination Identifier) | The model identifier of the destination point for a connection.[Example: Consider the following example [cxn](cxn.docx) within DiagramML:<[cxn](cxn.docx) modelId="10" srcId="0" destId="4" srcOrd="3" destOrd="0"/>In this example we see the destination identifier referencing a point who's model identifier is 4. [end](end.docx) example]The possible values for this attribute are defined by the [ST\_ModelId](ST_ModelId.docx) simple type (§). |
| destOrd (Destination Position) | The relative position of the destination point among it's siblings.[Example: Consider the following example [cxn](cxn.docx) within DiagramML:<[cxn](cxn.docx) modelId="10" srcId="0" destId="4" srcOrd="3" destOrd="0"/>In this example we see the destination position is 0. This means that it is ranked first among its siblings if there are sibling points present. [end](end.docx) example]The possible values for this attribute are defined by the XML Schema unsignedInt datatype. |
| modelId (Model Identifier) | The unique identifier associated with this [cxn](cxn.docx).[Example: Consider the following example [cxn](cxn.docx) within DiagramML:<[cxn](cxn.docx) modelId="10" srcId="0" destId="4" srcOrd="3" destOrd="0"/>In this example we see the model identifier is 10. [end](end.docx) example]The possible values for this attribute are defined by the [ST\_ModelId](ST_ModelId.docx) simple type (§). |
| parTransId (Parent Transition Identifier) | The model identifier of the point representing the parent transition. An example of a parent transition can be thought of as the shape connecting two points, such as an arrow in the diagram.The unique identifier associated with this [cxn](cxn.docx).[Example: Consider the following example [cxn](cxn.docx) within DiagramML:<[cxn](cxn.docx) modelId="10" srcId="0" destId="4" srcOrd="3" destOrd="0" parTransId="9" sibTransId="5"/> In this example we see the parent transition identifier is referencing a point who's model identifier is 9. [end](end.docx) example]The possible values for this attribute are defined by the [ST\_ModelId](ST_ModelId.docx) simple type (§). |
| presId (Presentation Identifier) | The unique identifier of the [layout](layout.docx) associated to the [cxn](cxn.docx) (only the active presentation (layout) is saved so all the presId's in the file should be the same).[Example: Consider the following example [cxn](cxn.docx) within DiagramML:<[cxn](cxn.docx) modelId="10" type="presParOf" srcId="0" destId="4" srcOrd="3" destOrd="0" presId="urn:sampleLayouts/layout1"/>In this example we see the presentation identifier is urn:sampleLayouts/layout1. [end](end.docx) example]The possible values for this attribute are defined by the XML Schema string datatype. |
| sibTransId (Sibling Transition Identifier) | The model identifier of the point representing the sibling transition. An example of a sibling transition can be thought of as the shape connecting two points, such as an arrow in the diagram.[Example: Consider the following example [cxn](cxn.docx) within DiagramML:<[cxn](cxn.docx) modelId="10" srcId="0" destId="4" srcOrd="3" destOrd="0" parTransId="9" sibTransId="5"/> In this example we see the sibling transition identifier is referencing a point who's model identifier is 5. [end](end.docx) example]The possible values for this attribute are defined by the [ST\_ModelId](ST_ModelId.docx) simple type (§). |
| srcId (Source Identifier) | The model identifier of the source point for a connection.[Example: Consider the following example [cxn](cxn.docx) within DiagramML:<[cxn](cxn.docx) modelId="10" srcId="0" destId="4" srcOrd="3" destOrd="0"/>In this example we see the souce identifier referencing a point who's model identifier is 0. [end](end.docx) example]The possible values for this attribute are defined by the [ST\_ModelId](ST_ModelId.docx) simple type (§). |
| srcOrd (Source Position) | The relative position of the source point among it's siblings.[Example: Consider the following example [cxn](cxn.docx) within DiagramML:<[cxn](cxn.docx) modelId="10" srcId="0" destId="4" srcOrd="3" destOrd="0"/>In this example we see the source position is 3. This means that it is ranked third among its siblings. [end](end.docx) example]The possible values for this attribute are defined by the XML Schema unsignedInt datatype. |
| type (Point Type) | The type of point, which will correspond to a connection in this case.[Example: Consider the following example [cxn](cxn.docx) within DiagramML:<[cxn](cxn.docx) modelId="10" type="presParOf" srcId="0" destId="4" srcOrd="3" destOrd="0" presId="urn:sampleLayouts/layout1"/>In this example we see the point type is defined as presParOf. [end](end.docx) example]The possible values for this attribute are defined by the [ST\_CxnType](ST_CxnType.docx) simple type (§). |

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

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

 <sequence>

 <element name="[extLst](extLst.docx)" type="a:CT\_OfficeArtExtensionList" minOccurs="0" maxOccurs="1"/>

 </sequence>

 <attribute [name](name.docx)="modelId" type="[ST\_ModelId](ST_ModelId.docx)" use="required"/>

 <attribute name="type" type="[ST\_CxnType](ST_CxnType.docx)" use="optional" default="parOf"/>

 <attribute [name](name.docx)="srcId" type="[ST\_ModelId](ST_ModelId.docx)" use="required"/>

 <attribute [name](name.docx)="destId" type="[ST\_ModelId](ST_ModelId.docx)" use="required"/>

 <attribute [name](name.docx)="srcOrd" type="xsd:unsignedInt" use="required"/>

 <attribute [name](name.docx)="destOrd" type="xsd:unsignedInt" use="required"/>

 <attribute name="parTransId" type="[ST\_ModelId](ST_ModelId.docx)" use="optional" default="0"/>

 <attribute name="sibTransId" type="[ST\_ModelId](ST_ModelId.docx)" use="optional" default="0"/>

 <attribute name="presId" type="xsd:string" use="optional" default=""/>

</complexType>