

IFC Release Specific Concept Description (IFC2x3)

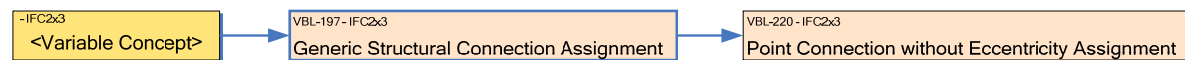
Point Connection without Eccentricity Assignment

Reference	VBL-220	Version	2	Status	Proposal
Relationships	Implements general concept 'Non Eccentric Point Connection'.				
History	Created 23.10.2006, improved 28.9.2007, Condition coordinate system added 17.1.2008				
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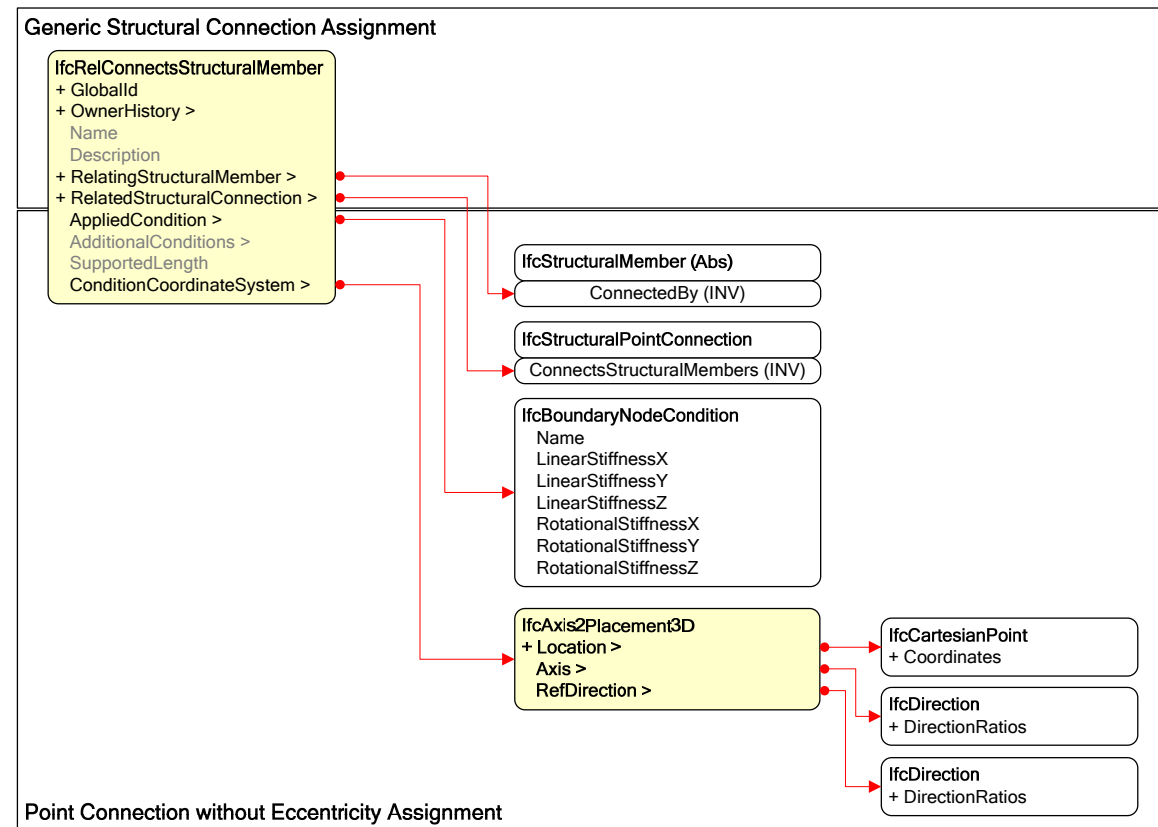
General

In the IfcBoundaryCondition value (-1.) represents an infinitive large value – or a fixed connectivity with infinitive stiffness, value zero (0.) represents no stiffness or a free connectivity, value NIL (\$) represents an unknown connectivity condition, any other value represents a finitive stiffness or spring connectivity in that direction or rotation.

Usage in view definition diagram



Instantiation diagram



Implementation agreements

IfcRelConnectsStructuralMember

Attribute	Implementation agreements
GlobalId	Providing a GUID is mandatory, but the GUID is allowed to change.
OwnerHistory	Providing an OwnerHistory is mandatory, but it is allowed to use dummy data.
Name	Reserved.
Description	Reserved.
RelatingStructuralMember	N/A
RelatedStructuralConnection	Must be IfcStructuralPointConnection
AppliedCondition	Must be IfcBoundaryNodeCondition.
AdditionalConditions	Not used.
SupportedLength	Not used.
ConditionCoordinateSystem	The applied conditions are defined in this given coordinate system. Coordination system is defined relative to global coordinate system.

IfcAxis2Placement3D

Attribute	Implementation agreements
Location	<i>Giving location is mandatory, but while in this case it doesn't have any special meaning (0,0,0) is used.</i>
Axis	N/A
RefDirection	N/A

Additional information

P21 example

```
#292= IFCRELCONNECTSSTRUCTURALMEMBER('2p11VbFcXA7gh2nZDUW9Pw',#28,$,$,#246,#192,#291,$,$,#300);

#246= IFCSTRUCTURALCURVEMEMBER('21Iekk$zf4khCF1qWGDGVP',#28,'1',$,$,#257,#274,.NOTDEFINED.);
#192= IFCSTRUCTURALPOINTCONNECTION('30jwjLkoTC6eM1wk3_xb4W',#28,'Example node',$,$,#203,#216,#218);
#291= IFCBOUNDARYNODECONDITION($,-1.,-1.,-1.,-1.,-1.,-1.);
#297= IFCCARTESIANPOINT((0.,0.,0.));
#298= IFCDIRECTION((0.,0.,1.));
#299= IFCDIRECTION((1.,0.,0.));
#300= IFCAXIS2PLACEMENT3D(#297,#298,#299);
```

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The content of this document has to be certified by the IAI before becoming part of an official IFC Model View Definition.