

# IFC Release Specific Concept Description (IFC2x3)

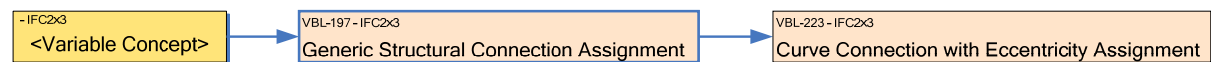
## Curve Connection with Eccentricity Assignment

Reference	VBL-223	Version	3	Status	Proposal
Relationships	Implements general concept 'Non Eccentric Curve Connection'.				
History	Created 23.10.2006, Documentation improved 28.9.2007, Condition coordinate system added 17.1.2008				
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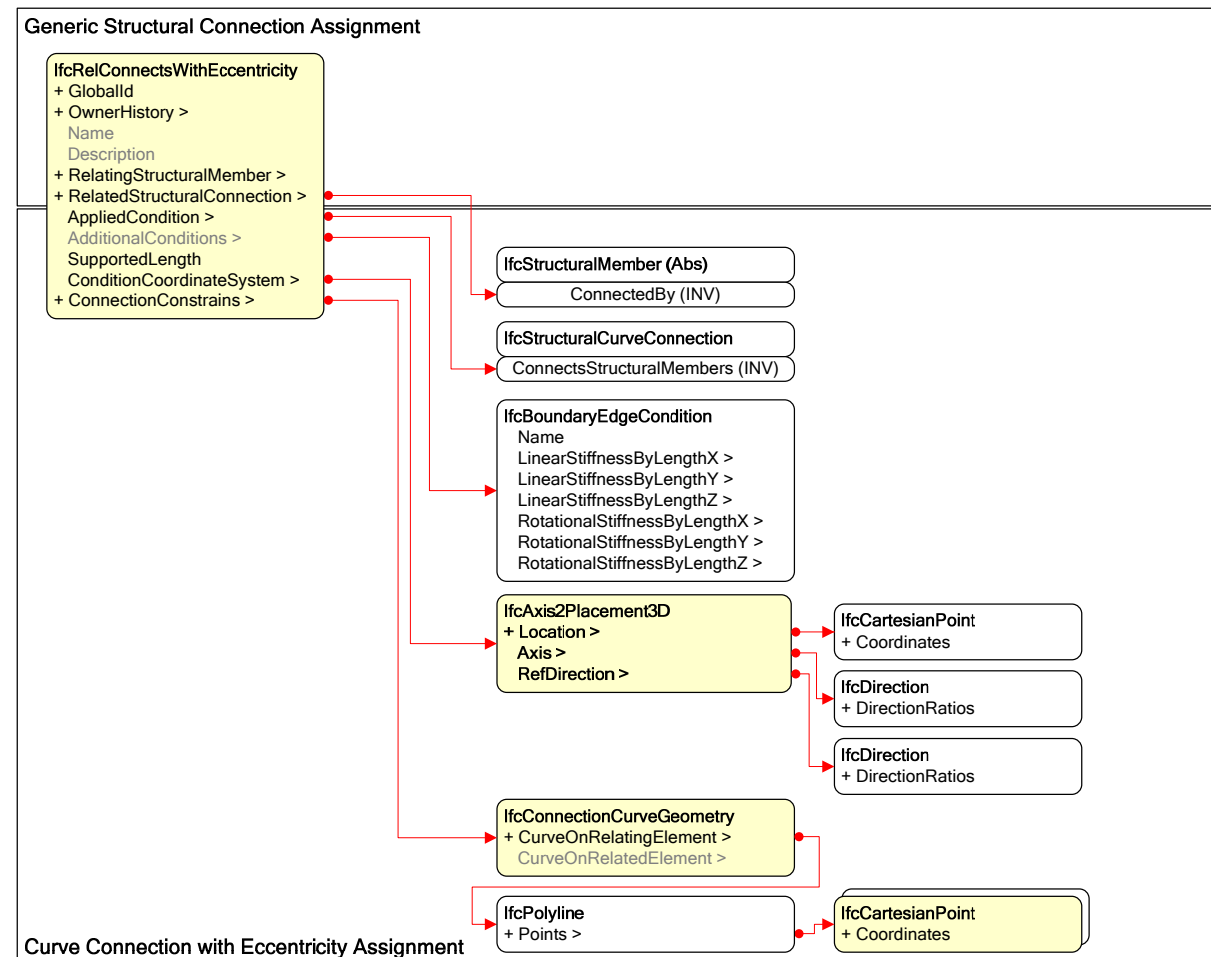
### General

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

### IfcRelConnectsWithEccentricity

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 IfcStructuralCurveConnection.
AppliedCondition	Must be IfcBoundaryEdgeCondition.
AdditionalConditions	Not used.
SupportedLength	Only given if the support has actual width. Otherwise '\$' is used. Given in the units defined in the IfcProject's UnitsInContext.
ConditionCoordinateSystem	Not used.
ConnectionConstraint	Must be IfcConnectionCurveGeometry.

### 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

### IfcConnectionCurveGeometry

Attribute	Implementation agreements
CurveOnRelatingElement	Must be IfcPolyline.
CurveOnRelatedElement	Not used.

### IfcCartesianPoint

Attribute	Implementation agreements
Coordinates	Must have three dimensions.
Dim	N/A

## Additional information

### P21 example

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