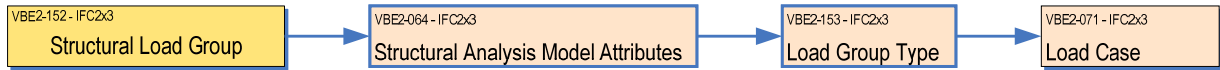


IFC Release Specific Concept Description (IFC2x3)

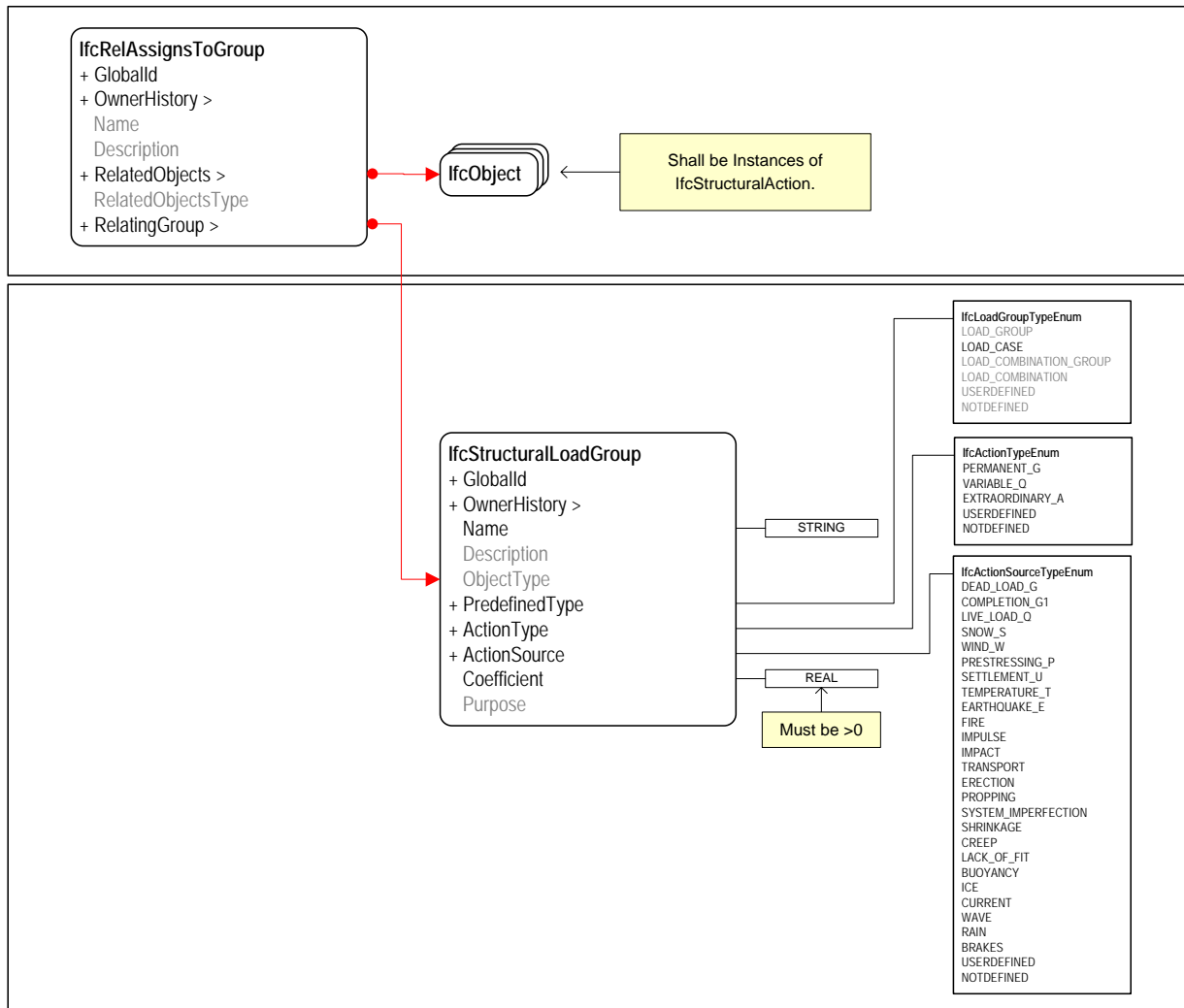
Load Case

Reference	VBE2-071	Version	1.0	Status	Draft
Relationships					
History	Created 23.10.2006				
Authors	Sakari Lehtinen				
Document Owner	Tampere University of Technology				

Usage in view definition diagram



Instantiation diagram



Implementation agreements

- *GlobalID*. Providing a GUID is mandatory. In the *IfcRelAssignsToGroup* GUID is allowed to change.
- *OwnerHistory*. Providing an *OwnerHistory* is mandatory, but it is allowed to use dummy data in the owner history.
- *Name*. Freely used string. Not used in the *IfcRelAssignsToGroup*.
- *Description*. Not used
- *RelatedObjects*. List of *IfcObjects*. Shall be instance of *IfcStructuralAction*.
- *RelatedObjectType*. Not used.
- *RelatingGroup*. Shall be instance of *IfcStructuralLoadGroup*.
- *IfcStructuralLoadGroup>PredefinedType*. Must be *LOAD_CASE*.
- *IfcStructuralLoadGroup>ActionType*. The type of the load.
- *IfcStructuralLoadGroup>ActionSource*. The type of the action source.

- *IfcStructuralLoadGroup>Coefficient*. Must be greater than zero.

Each *IfcStructuralAction* may be associated to several *IfcStructuralLoadGroup*.

Load groups have a hierarchy. From the bottom to up it is: Action->Load case->Load combination group->Load combination. Each can be part of the group above or groups items below in the hierarchy. For more details see *IfcStructuralLoadGroup* from the IFC2x3 online documentation.

Additional information

P21 example

```
#28=IFCSTRUCTURALANALYSISMODEL('2uRpA0c3HFLcW0f7ywxmPv',#2,'Example model',$,$,.LOADING_3D.,$(#8,#16,#33),$);
#8=IFCSTRUCTURALLOADGROUP('3oByggqQiTAnr_tNVK7zUuK',#2,'wind west',$,$,.LOAD_COMBINATION.,.NOTDEFINED.,.NOTDEFINED.,$,$);
#5=IFCRELASSIGNSTOGROUP('0Auj8TqP5074IBcmw_cony',#2,$,$,(#4,#6,#7),$,$,#8);
#4=IFCSTRUCTURALLOADGROUP('18BCRV7eT4570ifRrTYfedT',#2,'west wind group',$,$,.LOAD_COMBINATION_GROUP.,.PERMANENT_G.,.NOTDEFINED.,1.0,$);
#1=IFCRELASSIGNSTOGROUP('1kQX$XAC13u7Ta3_Tpu6xp',#2,$,$,(#3),$,$,#4);
#3=IFCSTRUCTURALLOADGROUP('1eZwYEWL9EFdqMZe4RIE1D',#2,'west wind load',$,$,.LOAD_CASE.,.VARIABLE_Q.,.WIND_W.,1.05,$);
#9=IFCRELASSIGNSTOGROUP('08uWZEBkL6xNaymVWATv$S',#2,$,$,(#10,#11),$,$,#3);
#10=IFCSTRUCTURALLINEARACTION('2u6Aq3yejD94UEDv_Q34kp',#2,'Example action',$,$,#1560,#1590,#1562,.LOCAL_COORDS.,.F.,.TRUE_LENGTH.,$);
```

This document uses the official IFC Model View Definition Format version 1.1.0. of the IAI (www.iai-international.org)
The content of this document has to be certified by the IAI before becoming part of an official IFC Model View Definition.