

Nemetschek IFC Viewer 1.2

Features and Benefits

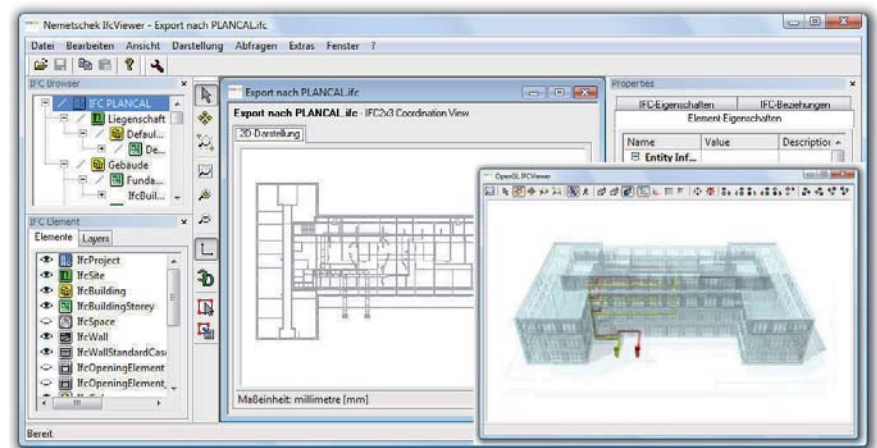
The Nemetschek IFC Viewer 1.2 is a software for viewing and interactive exploring an IFC building model independent of CAD or other special software.

The software offers you the possibility to examine or view the building structure, 2D plan, 3D model and geometric and alphanumeric properties of building sections or individual building elements intuitively.

The model data can be presented in the following ways: as a 3D view of the complete model and selected building parts. In addition, as a cross section of each story, as a hierarchy tree of the 3D building structure, in the form of a list of building elements (wall, floor slab, window etc.) and rooms or as a list of layers.

The integrated IFC browser maps the topological structure of the building. IFC offers the following structure levels here: The **Project** (as the highest-level container for all information), the building **Site**, the **Building** and the **Story**.

Depending on the structure of the building, the names and layout of the structure levels can be flexibly assigned during export of the IFC file to Allplan. The structure tree of the IFC browser provides intuitive navigation in the building model thanks to simple expand and collapse functions. The selected structure level is displayed in



the viewer in both 2D and 3D mode. In the "3D Orbit" mode, you can "fly around" the model. Here, the building model can be rotated, enlarged, and moved in any way you like.

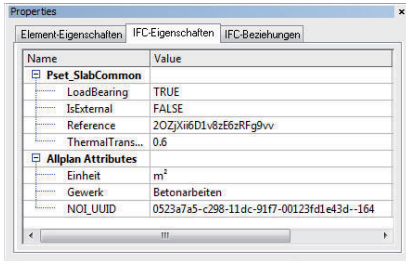
Additional filter options by object type and layer simplify aspect-related viewing of the model. Different display options can also be selected (e.g. "wire frame" display or "rendered animation model").

Interactively Explore a Building Model with the IFC Viewer

With the Nemetschek IFC Viewer you can also interactively explore and "enter" the IFC building model. For this, the 3D Viewer offers "walk-through" mode, which allows you to walk through the building interactively and intuitively, giving you a view of the interior.

Highlights

- ▶ Visualization of geometric models in 2D and 3D
- ▶ Structure-based navigation, element selection and filters
- ▶ Display of building topologies and element interaction
- ▶ Clear display of element attributes
- ▶ Generate specific views of geometry and attributes
- ▶ Analyses of models (e.g. room schedules)
- ▶ Real-time "walk-throughs" (moving in and around the model)
- ▶ Export in VRML and Google Earth formats
- ▶ Version 1.1 runs on Windows 7
- ▶ Flexible localization of the user interface (German, English, French)



The 2D display generates plans for the various structure levels. Planners can therefore check the current planning situation in a visually reliable way.

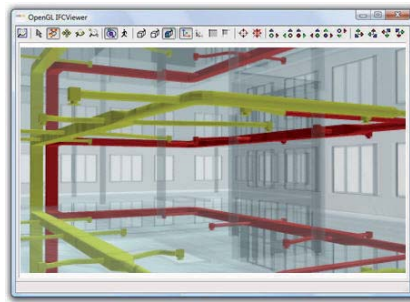
For each selected object, all alphanumeric attributes are displayed along with the geometric representation. In addition to fixed element attributes such as the name or element classifications, this can include additional information such as the u-value of a wall, for example. In the case of an IFC model exported from Allplan, these are all the free additional attributes assigned in the object manager.

The topological relationships to other objects, such as windows set in walls or the assignment of building elements to the 3D building structure, are displayed.

The graphical selection of elements is possible both in the structure tree and in the 2D plan and 3D model. A special "advanced selection" function also lets you perform an attribute-related search

for elements, which you can enhance further by specifying selection formulas. Various evaluations e.g. room schedule or window and door lists, are offered based on this.

With options for exporting to GoogleEarth, Nemetschek IFC Viewer is also an ideal way of transferring building models to the world of GIS (geographical information systems). Building models can be viewed clearly integrated in their real environment.



Nemetschek and the IAI

Nemetschek AG has decisively influenced the paradigm shift in the construction industry from 2D drafting to object-oriented 3D modeling (BIM). These object-oriented building models are able to revolutionize the future of the construction industry by providing a seamless IT connection to

downstream applications such as programs for tendering, ordering and billing which can access the intelligent, object-related data provided by building models.

The IFC – Industry Foundation Classes – have become established as a powerful standard for exchanging this intelligent, object-oriented model data in the building sector.

Nemetschek AG therefore cooperates intensively with the IAI (Industry Alliance for Interoperability) in order to implement and improve the IFC model and optimize the mapping of construction-specific processes such as quantity takeoff operations based on graphics, engineering, facility management and building services. The aim is to cover the entire life cycle management of buildings.

Additional Information

You will find additional information at www.allplan.com.