

IFC R2.0 Certification Candidate Application Info sheet

Certification Date 2001-05-23

Application Name and Version

IFC VRML Converter Version 1.0

Software Company & Contact info

TOPS Software Corp.

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Availability

Commercially available in 2002

Application Description

To convert IFC R2.0 geometry to VRML file. This converter has an user interface which contains IFC and VRML file selector and a tree view functionality to browse the imported IFC building element objects. This converter uses IFCsvr ActiveX Component (SECOM Co., Ltd).

View

CAD / Visualization

IFC Implementation Type

Read-only

IFC Data Import

Concept group

Containment and Grouping

Units and measure

Spatial model

Building elements

Geometry

Concepts supported

Project, Site, Building, BuildingStorey

Used by switching between Radian or Degree

Space and SpaceBoundary geometry supported

All (listed below)

Some limitations listed below

IFC VRML Converter supports IFC objects for converting as follows:

- Column
- Beam
- Door
- Window
- Wall
- Slab
- Roof
- BuiltIn
- Furniture
- Equipment
- Fixture
- Covering
- Space
- SpaceBoundary
- LightFixrure
- Opening.

The supported geometry types are:

- Bounding box
- Attribute driven that is defined by BLIS project

IFC Data Export (if relevant)

Nothing for exporting.

Other**Limitations:**

- Unsupported geometries
 - o Absolute placement
 - o Clipping half space
 - o Ellipse
 - o Extruded solid: arbitrary, clipped
 - o Extruded solid: arbitrary, clipped, slanted
 - o Extruded solid: circular, clipped
 - o Extruded solid: circular, clipped, slanted
 - o Extruded solid: curved, clipped
 - o Extruded solid: curved, clipped, slanted
 - o Extruded solid: rectangular, clipped
 - o Extruded solid: rectangular, clipped, slanted
 - o Revolved solid: rectangular, clipped
- Boolean operation for opening elements

Out of scope:

- Assets (1)
- BldgElements (1)
- HVAC (1)