IFC2CityGML

Project Characteristics

Modeling:	★★☆☆☆
Mathematics:	★★☆☆☆
Programming:	★★★★☆

Setting:

- The 3DTracks research project deals with the interdisciplinary aspects of planning inner city subway tunnels

- Parametric tunnels models need to be converted into triangulated geometry and subsequently into the IFC and CityGML data formats

Your Task:

- Implement an intuitive WPF-based tool to easily export the models from Autodesk Inventor

- Extend the tool by using the xBIM Toolkit to create semantically enriched IFC-files

- Further convert the IFC-files into the CityGML data format

- Implementing a viewer that visualizes IFC and CityGML models (probably optional)

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