

# Code Compliance Checking with the Solibri Model Checker

## Setting:

Building information models are widely used in the construction industry. The IFC data format enables a vendor neutral exchange of models in a project. One of the many advantages of such models is that they can be automatically checked to ensure their compliance to project requirements or engineering standards.

The Solibri Model Checker (SMC) is a tool that can be used for this purpose and has various built in rules. However, via its API it is also possible to create new custom rules without limitations.

## Your Tasks:

- Get to know the Rules API (Java) of the Solibri Model checker
- Identify possible code checking scenarios not already covered by SMC (with support from the SL's supervisors)
- Develop corresponding rules with the API
- Create example models to verify the functionality of the developed rules

## Project Characteristics

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

