Increasing interdisciplinarity and complexity of systems requires an efficient collaborative development process. In the model-based development, models are interdependent and should be coupled, which can lead to inconsistencies among them. Therefore, to keep consistency of the whole system, it is necessary to detect such couplings. In order to help developers to observe dependencies and potential inconsistencies among the models, the VR-Visualization will be adopted. Thus, we need to extract information from models and transform them into a mutual language that can be processed and visualized. This thesis/work aims to address this issue by using semantic web technologies (e.g. RDF ect.).

Tasks:

- Transforming heterogeneous system models into a semantic-web databank
- Defining model dependencies in the databank
- Testing the interface between the semantic web and the VR-Wall in our lab

Requirements:

- Interest in model transformation and semantic web
- Interest in programming

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