One Minute Overview

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Seamless exchange of models among different modeling tools increasingly becomes a crucial prerequisite for effective software development processes. Due to lack of interoperability, however, it is often difficult to use tools in combination, thus the potential of model-driven software development cannot be fully utilized. To tackle this problem, we propose ModelCVS, a system aiming at model-based tool integration. ModelCVS enables transparent transformation of models between different tools' languages and exchange formats, as well as versioning exploiting the rich syntax and semantics of models, thus going beyond existing low-level model transformation approaches. For this, ModelCVS utilizes semantic technologies in terms of ontologies and supports different integration patterns at the metamodel level. To foster reuse, a knowledge base captures essential information relevant for tool integration.

ModelCVS at a glance