



SHARK 2010, Cape Town, South Africa

2 May 2010 11:50



Model-driven and Domain-specific Architectural Knowledge View for Compliance Meta-data in Process-driven SOAs

Ta'íd Holmes, Huy Tran, Uwe Zdun, and Schahram Dustdar

Distributed Systems Group

Institute of Information Systems

TU Wien

<http://www.infosys.tuwien.ac.at>



Message

- **It is feasible** to use domain-specific AK in the context of model-driven development (MDD).
- Apart from AK sharing and reuse, this is useful; e.g., for generating documentation.
- Stakeholders need incentives for recording AK.
- MDD helps to ensure the consistency of AK as it is part of the generation process.
- AK as an architectural view supports seperation of concerns in MDD.

Issues we were facing

- The domain-specific AK is not as explicit as in generic knowledge capturing approaches.
- Additional effort was needed to model the domain-specific AK view.
 - Which kind of AK is *really* needed in the domain?
- Danger of only recording AK of a particular domain and missing other AK.
- Approach assumes MDD is applied.
 - Possibility to introduce approach to other projects.

Questions to the Workshop

- How can domain-specific AK be related and mapped to generic AK?
 - e.g., using model-to-model transformation
- How can we also support the evolution of AK models during system evolution?
- How can we prioritize AK? And how can we measure & test for the coverage of AK?
 - e.g., in a model-driven generation step



Thanks for your attention!

Ta'íd Holmes
Distributed Systems Group
Institute of Information Systems
TU Wien

<http://www.infosys.tuwien.ac.at>

