Software Modernization

Changing markets; Merging, acquiring and/or diversifying existing legacy systems; Getting a faster time to market; Shrinking budgets; Increasing compliance and compatibility; Integrating new technologies. With all these challenges, how can you stay focused on growth, productivity and innovation in order to create added value within your organization? As such modernization projects face with both technologies combination and various modernization scenarios, model-driven approaches and tools offer the required abstraction level in order to design and build-up mature, flexible and efficient solutions.

What Is MoDisco?

MoDisco provides an extensible model-driven reverse engineering framework to support various software modernization use-cases:

- Quality Assurance: verifying the system according to provided requirements (detection of anti-patterns, computation of metrics, etc)
- Documentation: extraction of information from it to understand a given aspect (structure, behavior, persistence, data-flow, etc)
- Improvement: transformation of an existing system to integrate better coding norms or use more efficient design patterns.
- Migration: transformation of an existing system to change a component, the framework, the language or its architecture

MoDisco Components

- Metamodels to describe existing systems (KDM, SMM, Java™, C#, etc)
- Associated discoverers to automatically create models of these systems
- Generic tools to understand and transform these complex models (model browser, discovery manager & workflow, converters, etc)
- Use-cases to illustrate how MoDisco can concretely support modernization processes (e.g. combining Java & UML2)

The 3 Modernization Phases

- Describing the information extracted out of the artifacts of this system
- Understanding the extracted information in order to take the better modernization decisions
- Transforming this information into new artifacts facilitating the modernization (metrics, document, generated code...)

Contact Us

Websites (please, use the project's newsgroup in priority):
- AtlanMod Team http://www.emn.fr/x-info/atlanmod
- MIA-Software http://www.mia-software.com/