SoftMetaWare

Overview

SoftMetaWare provides vendor-neutral strategic technology management advice and specializes in the implementation of highly automated, domain driven development environments and Model Driven Architecture® approaches. SoftMetaWare is leading the Generative Model Transformer project, an Open Source MDA® tool initiative. The range of SoftMetaWare services is targeted at organizations with internal software development capabilities. Taken together, these services enable us to provide a full Chief Technology Officer (CTO) function for our customers if required. Consulting services are delivered on-site as required, or remotely via web-based collaboration tools when appropriate.

SoftMetaWare supplies the architecture skills and methodologies to set up efficient software factories based on software product line architectures, and assists clients in the evaluation of commercial MDA® tool offerings.

Model Driven Architecture Services

Software Architecture

Assessment of existing systems, applications, and architectures. Developing an in-depth understanding of the software and hardware environment as the basis for refinements and refactorings. Architectural software (re)design, preparing the architecture for an automated, usually domain-specific MDA® development environment.

Domain Analysis

Analyzing the requirements of the target market. Detailed analysis of commonalities and variabilities of software requirements, and structured documentation of results using product line engineering techniques. Development of domain-specific Platform Independent Models.

Automation & Tool Integration

Implementation of Software product lines. Specification and development of application frameworks and industry-strength MDA® code generators.

Supporting Services

Organizational Structure

Assessing the efficiency of existing structures, and implementing the changes required to achieve organisational agility. Streamlining of management and communication structures.

Process Engineering

Analyzing, evaluating, and streamlining the end-to-end software production process. The objective is to identify unreliable processes, tool integration issues, and other factors that may impact efficiency. The result is a strategic roadmap that defines priorities and sets clear targets.

Project Management

Management of software product-line programmes. On-site, hands on mentoring of project managers. Leading by example and training in the techniques required for managing automated software development and all aspects of software-product lines.

The Generative Model Transformer Project

The GMT project is the result of an OOPSLA Birds-of-a-Feather session in November 2002.

The goal of the Generative Model Transformer project is to construct/assemble a set of tools for model driven software development with fully customizable Platform Independent Models, Platform Description Models, Texture Mappings, and Refinement Transformations.

The project should result in

- A tool that fulfils the MDA® promise for faster/more accurate/better maintainable application development.
- A tool for industrial use.
- MDA® related research - which is encouraged and needed. Results will be factored into the project where applicable.

Audience for the GMT Tool

The tool developed by this project will be useful for those who need

- To apply MDA® techniques to a specific domain; i.e. Software Analysts and Software Architects with expert experience and knowledge of the target domain and/or platform.
- To develop real, deployable applications, i.e. Software Developers with average knowledge and experience of the target domain and/or programming language.
- To design domain specific languages for the purpose of significantly automating development of a product family in a specific domain; i.e. Language Designers with deep knowledge in specific vertical or horizontal domains.

Contact Details

SoftMetaWare collaborates with a world-wide network of software consulting companies specializing in software product line engineering, model driven architecture, and related techniques.

Australia / New Zealand

PO Box 617
Oneroa, Waiheke Island

Email: info@softmetaware.com
Web: www.softmetaware.com

Auckland
Tel: +64 9 372 3073

Christchurch
Tel: +64 3 980 8305

North America

Craigc.com Consulting Services
Email: craig@craigc.com
Tel: +1 603 894 7202

Europe

Bronstee.com Software & Services
Email: emdeboas@bronstee.com