

Model Oriented Domain Analysis: an Industry Voice

Jorn Bettin

SOFISMO (www.sofismo.ch)
Sägestrasse 50, 5600 Lenzburg, Switzerland
jbe@sofismo.ch

Abstract. Model Oriented Domain Analysis (MODA) is a state of the art method for performing commonality and variability analysis in the context of a software product line or family of applications. Over the last two years the MODA approach has been used to design ten families of complementary domain specific modeling languages, as well as sets of customer-specific modeling languages for five organizations in the domains of industrial automation, building control, insurance product design, and (web) service based business applications. The approach is based on 15 years of practical experience of using model driven approaches and domain specific languages to simplify the design of software products and application families. It combines fundamental principles from product line engineering methods such as FAST and KOBRA with the possibilities of modern model driven tooling for rapidly designing and implementing domain specific languages. The presentation will introduce the principles that underpin MODA, summarize related best practices, and outline the implications for optimal tool support.