Scalable and Robust Rule Engine

Four Mobile Information Technologies Co.'s industrial research and development project approved by Ege Teknopark (BSTB project no: 50080)

Abstract

This project aims at developing a rule engine which can be used in different business domains for data modeling, rule specification over data modeling and scenario execution according to the defined data and rules. The rule engine enables both the creation and the management of numereous (publicity) campaigns in different industrial sectors such as finance and e-commerce. By following the model-driven development principles, any domain expert can visually design the required business rules by using the tools provided with the engine. The implementation of these rules is achieved automatically from the designed rule models. For the case study, design and implementation of a series of campaign management rules for the finance sector are taken into consideration. Implemented system executes hundreds of rules on transaction events realized in various locations via using credit card or just electronic funds transfer. Execution of these rules also initializes the automatic execution of the underlying business services for generating information messages in various types and updating databases based on the transactions.

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