HARMONIZED AND REVERSIBLE DEVELOPMENT FRAMEWORK FOR HLA BASED INTEROPERABLE APPLICATION

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ABSTRACT
This paper aims at improving the re-implementation of existing information systems when they are called to be involved in a system of systems, i.e. a federation of enterprise information systems that interoperate. The idea is reusing the local experiences coming from the development of the original information system with the process of Model Discovery and Ontological approach. We draw the strong points of MDA and HLA, former in transforming concepts and models from the conceptual level to the implementation and latter in implementation of distributed systems, then we propose a MDA/HLA framework to implement distributed enterprise models from the conceptual level of federated enterprise interoperability approach. In addition, we propose a model reversal methodology to help re-implement the legacy information system, in order to achieve the interoperability with other systems. We also draw the strong points from web services in order to improve the performance of HLA in distribute simulation.

Keywords: Interoperability, HLA, Model reversal, HLA evolved
REFERENCES


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