F. Benaben, N. Boissel-Dallier, H. Pingaud, J-P Lorre, *Semantic issues in model-driven management of information system interoperability.*

The paper describes the MDA-based design approach of the Mediation Information System Engineering (MISE) project and the associated model transformation concepts. The authors identify the semantic gaps encountered in the transitions from the 'collaborative situation model' to the 'collaboration process model' and the 'technical MIS deployment model'. Focusing on the latter transition semantic issues may be informational (information to data), functional (activities to services) and/or behavioural (processes to workflows). A State of the Art section on semantic reconciliation via semantic Web services provides a base for the MISE project work on the subject.

The project has tried the concept in crisis management, but has so far achieved only marginal results. Further work is concentrating on semantic reconciliations aiming on automated discovery, selection and orchestration of Web services based on machine-interpretable semantic descriptions.

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