Managing a methodology-development requirement-process – Best practices and lessons learned

Abstract:
The goal of the EU-Project AMISA – Architecting Manufacturing Systems and Industries for Adaptability – is to develop a methodology which allows optimizing system’s architecture towards maximum lifecycle value and furthermore implement it as a software tool. This presents a complex undertaking in itself and is enhanced by the complexity originating from the multi-national consortium with broad industry and academic backgrounds. This paper focuses on the requirement-management-process towards the Design for Adaptability methodology and software tool consisting of the main steps Requirement Acquisition and Categorization, Requirement Consolidation and Grading as well as Status Control and Management of Critical Requirements. The conducted steps are outlined in terms of the procedure, results and lessons learned and best-parcites described.

Stichworte:
design methodology; requirements; design to X; requirement-management-process; methodology development

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