



Enhancing Architecture Design Methods for Improved Flexibility in Long-Living Information Systems

By Matthias Naab, Kaiserslautern Fraunhofer IESE, Dieter Rombach, Peter Liggesmeyer, Frank Bomarius

Fraunhofer IRB Verlag. Paperback. Condition: new. BRAND NEW, Enhancing Architecture Design Methods for Improved Flexibility in Long-Living Information Systems, Matthias Naab, Kaiserslautern Fraunhofer IESE, Dieter Rombach, Peter Liggesmeyer, Frank Bomarius, Flexibility is an indispensable quality attribute of long-living information systems. Today's enterprises heavily rely on information systems for running their businesses. In domains like banking, insurance, or aviation, information systems are even a core enabler of competitiveness. In a dynamic business world, requirements evolve and software has to follow. How much implementation effort a change requires is strongly impacted by a system's architecture. Despite the availability of paradigms like SOA, BPM, or EDA, which come with flexibility mechanisms and are widely expected to bring inherent flexibility, today's systems are often not as flexible as expected. A major reason for missing flexibility is the lack of systematic, constructive support for flexibility in architecture definition methods. An in-depth characterization of the quality attribute flexibility is our foundation for systematically defining flexible architectures for software systems. Particular focus is on the role of architecture and on how it can contribute to a system's flexibility. We introduce a metric for flexibility, measuring on flexibility scenarios and architecture models. We condense key facets of flexibility...

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