Requirements engineering for IT-enabled product service systems

Abstract:
Products Service Systems (PSS) – integrated solutions to customers’ problems consisting of hardware, software, and service components – are an emerging trend on the market. However, their development is rather complex, because of the increased need to address customer needs and to integrate different domains. In this thesis an approach for requirements engineering for PSS is proposed, that enables the integrated handling of requirements to hardware, software, and services. It consists of an artifact model, process model, and a set of techniques. The approach integrates a stepwise refinement of requirements with the PSS development process. The main parts of the approach have already been developed, and first evaluations with industry partners are currently being done.

Stichworte:
Hybrid Product; Product Service System; Requirements Engineering; Artifact Model

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