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*NFR Engineering – mission critical qualities right on target*

Mission critical qualities like performance and scalability are typical examples of non-functional requirements (NFRs). They are key in defining the quality perception of a product and in highly automated systems their realization takes place mainly in software. Therefore a product's market success is strongly determined by software NFRs, independently of innovative features. Unfortunately, NFR are disregarded too often in early phases of the development which leads to expensive redesigns and (avoidable) non-conformance costs.

At Siemens Corporate Technology methods and techniques are developed to realize software NFRs right on target. The talk will show how e.g. performance can be kept in focus over the whole software life cycle by proven-in-use approaches, which will be illustrated by concrete examples from Siemens business units. Furthermore an outlook will be given how these methods contribute to an industrial grade form of digitalization.