

# Functional Architecture as the Core of Model-Based Systems Engineering

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**Abstract.** The application of functional architecture from a model-based systems engineering process is examined throughout the product lifecycle. It is shown that focusing on the functionality of the system, in concert with the relationships to other elements of an integrated architecture, is a rich source of information for analyzing, developing, integrating, verifying, operating, and supporting a system. Lessons learned and examples from various product domains are provided.