

Requirement Engineering support by SysML

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The field of system engineering is incrementally developing in the realm of standards to create a framework for Model Based System Engineering (MBSE) approaches to complex system management and tracking. Several modelling techniques exist since a long time addressing specific domains (requirements, functional architecture, product description, etc.), however a unified modelling technique is still not consolidated. One specific instance of unification standard is the System Modelling Language (SysML), developed as an extension of the commonly used Unified Modelling Language (UML) in software systems. SysML addresses the complete lifecycle of product development modelling, including the requirements engineering phase. In the ESA Euclid project, SysML has been adopted as a trial in a real project under development. In this talk the generic implementation in Euclid for modelling will be presented with a focus on the Requirements engineering tasks that have been the focus of the Phase B2. In addition the roadmap for the extension within Euclid of the methodology to architectural and lifecycle system description will be described.