

Efficient and Effective Systems Integration and Verification Planning Using a Model-Centric Environment

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Abstract. There is an increasing interest in Model-Based Systems Engineering (MBSE) practices in academia and industry. The majority of research and adoption in industry is relevant to the early phases of the system life-cycle, where model-based design is expected to provide improved results during system development. However, little attention has been paid to the application of such methodology to later phases of the development, and in particular to system integration and verification of the actual manufactured system, which continues to be done in the traditional document-centric environment. This paper proposes a model-centric environment for system integration and verification activities at the end of the development cycle and presents benefits in effectiveness and efficiency in planning system integration and verification activities for a system under a model-centric environment.