

A Survey of Model-Based Systems Engineering (MBSE) Methodologies

From SEBoK

A Survey of Model-Based Systems Engineering (MBSE) Methodologies

Estefan, J. 2008. *Survey of Candidate Model-Based Systems Engineering (MBSE) Methodologies*, rev. B. Seattle, WA, USA: International Council on Systems Engineering (INCOSE). INCOSE-TD-2007-003-02. Accessed April 13, 2015 at http://www.omgsysml.org/MBSE_Methodology_Survey_RevB.pdf

Usage

- Representing Systems with Models
 - What is a Model?
 - Types of Models
 - Integrating Supporting Aspects into System Models
- Service Systems Engineering Stages

Annotation

This survey report provides a cursory description of some of the leading model-based systems engineering (MBSE) methodologies used in industry today. This report presents an overview of various processes, methods, and tools used to support the discipline of systems engineering in a model-driven context. As a result, this report introduces various candidate MBSE methodologies that are commercially available for SE development.

This has been a widely accepted and referenced INCOSE document within the systems modeling community and is useful for giving context to system modeling.

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