



Systems Engineering Forum

Virtual Series

Overview of Model Assurance Levels (MALs) for Systems and Software Models

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Abstract:

Model Based Engineering (MBE) is a term that broadly covers an engineering effort that utilizes models. There is a wide range of activities that can be performed as part of an MBE effort. For example, some approaches may focus on addressing just the functional requirements, while other more advanced efforts will include addressing non-functional requirements and using models for simulation. Therefore, it is difficult for those without detailed knowledge of MBE to understand numerous questions about a given model, such as:

- 1) Are the models adding enough value and risk reduction to the program?
- 2) Are the models progressing as needed to meet their intended purpose?
- 3) How much technical depth is in the model?

To address these concerns, Model Assurance Levels (MALs) were developed. MALs are a measurement system for model value, content, and quality. This presentation will provide an overview of MALs and how they can be applied.