



Systems Engineering Forum

Virtual Series

Managing Standards in a Digital Engineering Environment

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Abstract:

This presentation will show how master copies of standards were ingested into the GENESYS Model Based Systems Engineering (MBSE)/Digital Engineering (DE) tool separated by shall statements. Rather than creating tailored full copies of the standards based on the original but with changes to customize it for each contract instance, only changed paragraphs specific to the contract were captured. The information is stored in a separate project for each contractor so that proprietary information is kept safe. When a user wants to see or print out the standard, they are given the option to see the original text, the modified statement or both. A tailoring report showing what has been tailored is also available. This is the first step in creating a history of how standards are tailored by multiple programs over time. Much of the interaction with the tool is through a custom web interface. Also, because the file is stored in an MBSE/DE environment, elements of the type of standard that can be connected with requirements, risks, cost, schedule and test types. These interrelations will also be demonstrated.