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When

Wednesday, 6 November 2024 from 12:00pm-1:00pm EST
(17:00-18:00 UTC)

Topic

Traceability - The Treads That Link SE Artifacts Together
Across the Lifecycle

Speaker

Lou Wheatcraft



Abstract

For today's increasingly complex, software-intensive systems, it is difficult, if not impossible, for a human brain to comprehend all the relationships and dependencies of SE artifacts across the lifecycle. Of particular concern is having the capability to assess change. Because of this, it is critical that projects have the SE tools necessary to develop the integrated/federated data and information model, enabling them to manage these relationships and dependences and assess impacts of changes across all lifecycle activities and associated artifacts. Traceability is the ability to establish an association or relationship between two or more entities and to track entities from their origin to the activities and deliverables that satisfy them, as well as assess the effects on artifacts across the lifecycle when change occurs. Many standards and regulations require traceability to be established across the lifecycle of the product/system. Failure to show required traceability can lead to a product not being approved for its intended use in the marketplace.

In this presentation, the following topics will be discussed: the different types of traceability, the various kinds of relationships and dependencies that are established using traceability, the use of traceability to show compliance with standards and regulations, the use of SE tools to establish and maintain a traceability/relationship meta-model, guidelines for recording and managing traceability, using traceability to manage requirements, and the use of traceability to assess change across the lifecycle.

The material being presented will be based on the latest version of the INCOSE RWG Needs and Requirements Manual.

Biography

Lou Wheatcraft is a senior consultant and managing member of Wheatland Consulting, LLC. Lou is an internationally recognized expert in systems engineering with a focus on needs, requirements, verification, and validation across the system lifecycle. Lou has over 50 years' experience in systems engineering, including 22 years in the United States Air Force. Lou has taught over 200 requirement seminars over the last 24 years. Lou supports clients from government and industries involved in developing and managing systems and products including aerospace, defense, medical devices, consumer goods, transportation, and energy. Lou is active in the INCOSE and is the current chair of the RWG. Lou is a principal author of several RWG manuals and guides including the Needs and Requirements Manual (NRM), Guide to Needs and Requirements (GtNR), Guide to Verification and Validation (GtVV), and newly released version 4 of the Guide to Writing Requirements (GtWR).

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