Requirements Engineering for Large and Very Large Scale Systems Part Two -Contract Based Systems

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Abstract

Requirements elicitation and management for contract based projects is significantly more complex than for product or product line development. For example, many practitioners are unaware of the fact that the traditional "V" model for requirements tracing does not work where there is a legal contract describing project deliverables; nearly every aspect of requirements engineering is more challenging, from elicitation to risk analysis and compliance management.

This half-day tutorial will describe in some detail contract issues that are typically not discussed in requirements texts and courses.

This is part two of a two part tutorial. The morning session described how to set up processes and tooling for very large industrial projects. This session describes the unique nature of requirements engineering processes for contract based projects. Either session may be taken independently, but the attendee will get the most out of the tutorials by attending both sessions.

Biographies

Brian BERENBACH is a senior consultant with the Siemens Requirements Engineering Global Technology Center, headquartered at Siemens Corporate Research in Princeton.

Mr. Berenbach is an ACM distinguished engineer. He has published widely on requirements engineering, and his book, "Software and Systems Requirements Engineering: In Practice" recently won a Prose finalist award for best Computing & Information Sciences text.

Jane CLELAND-HUANG is an Associate Professor at DePaul University's School of Computing. She currently serves at North American Director of the Center of Excellence in Software Traceability. She holds a PhD from the University of Illinois at Chicago. She conducts research in the area of Requirements Traceability and has published numerous related conference and journal papers. Dr. Cleland-Huang is currently serving as Program Chair for the 2010 IEEE Requirements Engineering Conference and serves on the editorial board for Springer Verlag's Requirements Engineering Journal. Her traceability research has focused on the application of information retrieval and machine learning techniques to automate the requirements traceability process. Dr. Cleland-Huang is also co-author of the book "Software by the Numbers: Low-Risk, High-Return Development".