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Title of the presentation /Tutorial

Sweet Spots of Process Discipline and Software Product Lines

Speaker(s)

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Category

- Getting Started Intermediate High Maturity
 Presentation Tutorial

Target Audience

- Senior Management IT Managers
 Project Leaders SEPG Leaders
 Practitioners Others:

Key Words

Software product line, configuration management, product production, process discipline, product line organization

Abstract (maximum 250 Words)

A sweet spot is the optimal place on a bat, racket, etc., to hit the ball, and has come to mean any combination of factors that suggests an optimal solution. In developing and operating a software product line, there are a number of „sweet spots” where process discipline can best be used to keep the product line on track. This paper will discuss three of them: (1) Resisting the temptation to „clone and own” or tamper with the core assets for the sake of temporary expediency when delivering a product; (2) configuration management, and the discipline needed to be able to re-produce any version of any product in the product line; and (3) marketing the product line and vetting new product opportunities by comparing them to the product line’s scope and production capability. The paper uses examples from real software product lines to illustrate the points and reinforce the importance of process discipline in a product line organization.

CV (200 words)

Dr. Paul Clements is a senior member of the technical staff at Carnegie Mellon University’s Software Engineering Institute, where he has worked since 1994 leading or co-leading projects in software product line engineering and software architecture documentation and analysis.

Clements is the co-author of three practitioner-oriented books about software architecture: "Software Architecture in Practice" (1998, second edition 2003), "Evaluating Software Architectures: Methods and Case Studies" (2001), and "Documenting Software Architectures: View and Beyond" (2002, second edition 2010). He also co-wrote "Software Product Lines: Practices and Patterns" (2001), and was co-author and editor of "Constructing Superior Software" (1999). In addition, Clements has also authored dozens of papers in software engineering reflecting his long-standing interest in the design and specification of challenging software systems. In 2005 and 2006 he spent a year as a visiting faculty member at the Indian Institute of Technology in Mumbai. He

Photo



was a founding member of the IFIP WG2.10 Working Group on Software Architecture.

He received a B.S. in mathematical sciences in 1977, and a M.S. in computer science in 1980, both from the University of North Carolina at Chapel Hill. He received a Ph.D. in computer sciences from the University of Texas at Austin in 1994.

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