

Excellence in Software Configuration Management (sneSCM.org)

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Software Configuration Management in 90 min. - quick intro, Ver. 0.90





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Why SCM?

SCM is a set of techniques or tools to:

- manage the orderly development of a product
- co-ordinate the collaboration in a team
- make sure that we don't make fools of ourselves

SCM is completely agnostic to:

- type of product
- type of development method

SCM provides service and support to everyone involved

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Wayne Babich

Sometimes it is embarrassing to be a computer programmer. What other profession has such a remarkable rate of schedule and cost overrun and outright failure? [...]

Our failures are not of the individual contributors; most of us design, code and debug adequately or even well. Rather, the failure is one of coordination. Somehow we lack the ability to take 20 or 30 good programmers and meld them into a consistently productive team.

Wayne A. Babich, 1986

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What is SCM?

<u>Software Configuration Management:</u> is the discipline of organising, controlling and managing the development and evolution of software systems. (IEEE, ISO,...)

The goal is to maximize [programmer] productivity by minimizing [co-ordination] mistakes. (Babich)

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SNESCM

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SNESCM

Definition of CM

Configuration management is a systems engineering process for establishing and maintaining *consistency* of a product's performance, functional, and physical attributes with its requirements, design, and operational information throughout its life

CM, when applied over the life cycle of a system, provides *visibility and control* of its performance, functional, and physical attributes. CM *verifies* that a system performs as intended, and is identified and documented in sufficient detail to support its projected life cycle. The CM process *facilitates orderly management* of system information and system changes

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