Design and Implementation of a Software Configuration Management Tool

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Abstract

Software configuration management (SCM) is the task of tracking and controlling changes in the software. SCM is a recommended practice often used for managing and versioning a variety of artifacts including software code, documents, design models and test cases. The increase in software complexity, team size, parallel development and product releases made manual SCM approaches insufficient and obsolete. This paper assesses existing SCM tools, and illustrates the different development phases of a proposed tool that supports the essential SCM tools∅" requirements and introduces additional unique features aiming for more efficient software management and control during the various development and maintenance phases