Software Configuration Management Implementation Roadmap

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Military Contract Environment) The Build Master Road Map for the Implementation of Configuration Management *Mario E. Moreira Fletcher J. Buckley Joseph Sorrentino Bob Aiello G-33 Configuration Management H. Ronald Berlack Mario E. Moreira Fletcher J Buckley James N. Menendez Gerardus Blokdyk G-33 Configuration Management Gerardus Blokdyk G-33 Configuration Management Ivica Crnkovic Mordechai Ben-Menachem Blokdyk, Gerardus Steve J. Ayer G-33 Configuration Management Vincent Maraia Ad Sparrius*

best practices in configuration management to ensure qualitymany organizations are invoking a new kind of management technique configuration management meant to ensure a product maintains its originally intended design materials composition and processing throughout its entire lifecycle this method moves away from current supply chain think

successfully implement high value configuration management processes in any development environment as it systems have grown increasingly complex and mission critical effective configuration management cm has become critical to an organization s success using cm best practices it professionals can systematically manage change avoiding unexpected problems introduced by changes to hardware software or networks now today s best cm practices have been gathered in one indispensable resource showing you how to implement them throughout any agile or traditional development organization configuration management best practices is practical easy to understand and apply and fully reflects the day to day realities faced by practitioners bob aiello and leslie sachs thoroughly address all six pillars of cm source code management build engineering environment configuration change control release engineering and deployment they demonstrate how to implement cm in ways that support software and systems development meet compliance rules such as sox and sas 70 anticipate emerging standards such as ieee iso 12207 and integrate with modern frameworks such as itil cobit and cmmi coverage includes using cm to meet business objectives contractual requirements and compliance rules enhancing quality and productivity through lean processes and just in time process improvement getting off to a good start in organizations without effective cm implementing a core cm best practices framework that supports the entire development lifecycle mastering the people side of cm rightsizing processes overcoming resistance and understanding workplace psychology architecting applications to take full advantage of cm best practices establishing effective it controls and compliance managing tradeoffs and costs and avoiding expensive pitfalls configuration management best practices is the essential resource for everyone concerned with cm from ctos and cios to development qa and project managers and software engineers to analysts testers and compliance professionals

this handbook provides guidance about the use of cm and about cm s interface with other management systems and

procedures the paragraph numbers in this handbook map directly to the paragraph numbers in ansi eia 649 it is applicable to the support of projects throughout all phases of a product s life cycle generic cm examples are included which may be tailored taking into account the complexity and nature of the work and the product it is applicable to the support of projects throughout all phases of a products life cycle generic cm examples are included and may be tailored to suit the complexity and nature of the work and the product this handbook establishes a common framework for generic product life cycle cm it addresses tailored implementation based on differences that may exist in organization policies and procedures in the phase of the product life cycle in the acquisition method in the project size and complexity and in the system requirements and development a characterization of these differences will aid in the determination of the extent of the required cm process a cm process should be tailored to the context and environment to which it is applied tailoring for a specific product may involve more or less stringent criteria implementing only some of the functions and principles or implementing to a lesser or greater degree of complexity the attributes of the context and environment will dictate which of these individual tailoring approaches will be used for each of the cm functions in the cm plan see section 5 for cm functions

designed for software product developers provides comprehensive coverage of the theory practice and techniques of good software configuration management and a structured approach to implementing these practices on large software development projects as such it serves as a step by step guide for project managers who need to plan implement and control the process associated with data control features include a chapter on software configuration management and automation including software tools the teaching of procedures for identifying the code documents and data to be controlled as the product definition and a systematic approach to maximizing reuse of software and implementing change control a glossary plus an appendix on procedures forms and forms control complete this work

scm practices are recognised as core functional areas in assisting a project team to identify control audit and report on all configuration items of a project consequently they are then better able to control changes to the working environment moreira presents a totally unique book offering a how to guide for scm implementation for commercial and technology fields a thoroughly practical approach this guide includes examples and instruction of scm tasks this book has an easy to follow set of tasks that can be customized to assist a scm professional in implementing scm in a more efficient and expedient manner while also imparting scm knowledge provides a customisable step by step process in implementing scm discusses typical scm activities at project level and includes source control change control problem management etc an

accompanying website contains templates procedures and other materials to aid understanding and encourage the practical applications of the material discussed throughout wiley com go moreira software anyone who has to implement scm in his her company at every level will need this book and find its practical approach useful

the configuration management environment configuration management planning configuration identification hardware identification software identification firmware identification identification of drawings and others documents configuration control configuration control of hardware configuration control of software configuration control documentation configuration status accounting the configuration management facility configuration audits

a set of good practices related to configuration management in automated data processing systems employed for processing classified and other information provides guidance to developers of trusted systems on what configuration management is and how it may be implemented in the development and life cycle of a trusted system

are there recognized software configuration management problems what may be the consequences for the performance of an organization if all stakeholders are not consulted regarding software configuration management when was the software configuration management start date what business benefits will software configuration management goals deliver if achieved at what point will vulnerability assessments be performed once software configuration management is put into production e g ongoing risk management after implementation defining designing creating and implementing a process to solve a business challenge or meet a business objective is the most valuable role in every company organization and department unless you are talking a one time single use project within a business there should be a process whether that process is managed and implemented by humans ai or a combination of the two it needs to be designed by someone with a complex enough perspective to ask the right questions someone capable of asking the right questions and step back and say what are we really trying to accomplish here and is there a different way to look at it for more than twenty years the art of service s self assessments empower people who can do just that whether their title is marketer entrepreneur manager salesperson consultant business process manager executive assistant it manager cxo etc they are the people who rule the future they are people who watch the process as it happens and ask the right questions to make the process work better this book is for managers advisors consultants specialists professionals and anyone interested in software configuration management assessment featuring 609 new and updated case based questions organized into seven core areas of process design this self assessment will help you identify areas in which software configuration management improvements can be made in using the questions you will be better able to diagnose software configuration management

projects initiatives organizations businesses and processes using accepted diagnostic standards and practices implement evidence based best practice strategies aligned with overall goals integrate recent advances in software configuration management and process design strategies into practice according to best practice guidelines using a self assessment tool known as the software configuration management scorecard you will develop a clear picture of which software configuration management areas need attention included with your purchase of the book is the software configuration management self assessment downloadable resource containing all 609 questions and self assessment areas of this book this enables ease of re use and enables you to import the questions in your preferred management or survey tool access instructions can be found in the book you are free to use the self assessment contents in your presentations and materials for customers without asking us we are here to help this self assessment has been approved by the art of service as part of a lifelong learning and self assessment program and as a component of maintenance of certification optional other self assessments are available for more information visit theartofservice com

this standard defines five cm functions and their underlying principles the functions are detailed in section 5 the principles highlighted in text boxes are designed to individually identify the essence of the related cm function and can be used to collectively create a checklist of criteria to evaluate a cm program in describing each cm function and its principles this standard utilizes neutral configuration management terminology while also providing equivalent terms that have historically been used in various product environments see table 2 there is no intent to express preference for any particular set of terminology similarly this standard uses a neutral set of names for the phases of a product s life cycle which are generic enough to be easily mapped to the myriad of different life cycle models in use table 1 illustrates some of the aliases for each phase name and identifies characteristics that apply in each one regardless of the titles chosen for these phases or whether the product is a facility software an airplane or a machine screw at some time in its history a product will go through all or most of these phases the phases can have considerable overlap or the sequence of the phases might change or be repeated e g for product improvements and enhancements approved configurations of a product can be in the build distribution operation and disposal phases simultaneously and changes to those configurations may occur during all life cycle phases appropriate application of cm functions enables a user of this standard to plan and implement a cm program for a product project or enterprise the degree to which each of the cm principles applies to a product varies over the product s life cycle some principles do not apply during every phase of the product s life cycle e g configuration verification and audit principles are not applicable in the conception or definition phases the degree of rigor and techniques used in implementing cm is commensurate with the type of product and its application environment as

defined by program requirements all five cm functions are necessary to some degree for all products a robust cm approach is required for a complex product such as an electronic system a military weapon or other product that must be supported over the complete product s life cycle simpler cm techniques may be applied to non complex products as long as they maintain the needed consistency between essential requirements product configuration information and the product an organization that has the responsibility for performing configuration management for a product during some period of its life cycle could be a commercial enterprise e g a contractor a subcontractor a supplier or a government agency references in this standard to the customer should be interpreted as the entity that specifies requirements performance attributes for the product or that acquires and uses the product a customer may be external to the developing and producing organization or may be an internal customer such as marketing management or the using department configuration management functions related to a product may be the responsibility of several organizations during its life cycle for example one organization with the responsibility to design and build a product will perform configuration management during the definition and build phases other organizations or government activities with responsibility for upgrading the product and servicing units will perform configuration management during the operation phase geia hb 649 implementation guide for configuration management provides additional how to guidance for planning managing and implementing cm functions and principles

are we making progress and are we making progress as software configuration management leaders what are specific software configuration management rules to follow what other organizational variables such as reward systems or communication systems affect the performance of this software configuration management process why should we adopt a software configuration management framework which individuals teams or departments will be involved in software configuration management defining designing creating and implementing a process to solve a business challenge or meet a business objective is the most valuable role in every company organization and department unless you are talking a one time single use project within a business there should be a process whether that process is managed and implemented by humans ai or a combination of the two it needs to be designed by someone with a complex enough perspective to ask the right questions someone capable of asking the right questions and step back and say what are we really trying to accomplish here and is there a different way to look at it this self assessment empowers people to do just that whether their title is entrepreneur manager consultant vice president cxo etc they are the people who rule the future they are the person who asks the right questions to make software configuration management investments work better this software configuration management all inclusive self assessment enables you to be that person all the tools you need to an in depth

software configuration management self assessment featuring 727 new and updated case based questions organized into seven core areas of process design this self assessment will help you identify areas in which software configuration management improvements can be made in using the questions you will be better able to diagnose software configuration management projects initiatives organizations businesses and processes using accepted diagnostic standards and practices implement evidence based best practice strategies aligned with overall goals integrate recent advances in software configuration management and process design strategies into practice according to best practice guidelines using a self assessment tool known as the software configuration management scorecard you will develop a clear picture of which software configuration management areas need attention your purchase includes access details to the software configuration management self assessment dashboard download which gives you your dynamically prioritized projects ready tool and shows your organization exactly what to do next your exclusive instant access details can be found in your book

because today s products rely on tightly integrated hardware and software components system and software engineers and project and product managers need to have an understanding of both product data management pdm and software configuration management scm this groundbreaking book offers you that essential knowledge pointing out the similarities and differences of these two processes and showing you how they can be combined to ensure effective and efficient product and system development production and maintenance

the benefits of cost and efficiency to be gained from the careful management of software projects and the widespread implementation of the iso 9000 quality standards have led to the emergence of the discipline of configuration management this is now widely recognized as the most effective means of understanding and monitoring the processes and changes which occur during the evolution of a product or system the software configuration management guidebook is a timely introduction to this important area for the software practitioner written by an international software quality expert this book is intended as a practical guide for direct implementation of the principles discussed software configuration management scm is clearly broken down into the four main stages of identification control status accounting and auditing sample plans and an analysis of tools techniques and methodologies are provided and both project and corporate wide schemes are examined in some depth illustrative case studies are included and international standards are referred to throughout in addition to the guide itself this book offers a wealth of additional material to aid implementation such as sample forms worksheets and checklists for a scm course the complete package is an authoritative source of information

and examples for any software professional taking the important step towards a software configuration management scheme special features include represents a whole package for practical and fast implementation of software configuration management programmes provides checklists templates and sample forms principles clearly illustrated by two major case studies and many smaller examples includes bibliography and list of standards for further reference

when doing a dr drill have you found the run book to be out of sync with the current configuration how many man hours can be recovered through effective configuration management do you need a new release version or patch level of the software is the service usage appropriate to capacity defining designing creating and implementing a process to solve a challenge or meet an objective is the most valuable role in every group company organization and department unless you are talking a one time single use project there should be a process whether that process is managed and implemented by humans ai or a combination of the two it needs to be designed by someone with a complex enough perspective to ask the right questions someone capable of asking the right questions and step back and say what are we really trying to accomplish here and is there a different way to look at it this self assessment empowers people to do just that whether their title is entrepreneur manager consultant vice president cxo etc they are the people who rule the future they are the person who asks the right questions to make software change and configuration management investments work better this software change and configuration management all inclusive self assessment enables you to be that person all the tools you need to an in depth software change and configuration management self assessment featuring 965 new and updated case based questions organized into seven core areas of process design this self assessment will help you identify areas in which software change and configuration management improvements can be made in using the questions you will be better able to diagnose software change and configuration management projects initiatives organizations businesses and processes using accepted diagnostic standards and practices implement evidence based best practice strategies aligned with overall goals integrate recent advances in software change and configuration management and process design strategies into practice according to best practice guidelines using a self assessment tool known as the software change and configuration management scorecard you will develop a clear picture of which software change and configuration management areas need attention your purchase includes access details to the software change and configuration management self assessment dashboard download which gives you your dynamically prioritized projects ready tool and shows your organization exactly what to do next you will receive the following contents with new and updated specific criteria the latest quick edition of the book in pdf the latest complete edition of the book in pdf which criteria correspond to the criteria in the self assessment excel dashboard example pre filled self assessment excel

dashboard to get familiar with results generation in depth and specific software change and configuration management checklists project management checklists and templates to assist with implementation includes lifetime self assessment updates every self assessment comes with lifetime updates and lifetime free updated books lifetime updates is an industry first feature which allows you to receive verified self assessment updates ensuring you always have the most accurate information at your fingertips

step by step guidance for identifying the items of a software system that are subject to change during the system life cycle it defines procedures for the systematic evaluation coordination approval or disapproval and implementation of all changes to the software configuration

this document remains valid for dod programs and projects with regards to configuration management cm activities to be performed over the lifecycle recommend it be stabilized via sae terminology

managing builds is crucial to the profitable delivery of high quality software however the build process has been one of the least understood stages of the entire development lifecycle now one of microsoft s leading software build experts introduces step by step best practices for maximizing the reliability effectiveness timeliness quality and security of every build you create

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