

# Managing the Software Process

Watts S. Humphrey



SEI SERIES IN SOFTWARE ENGINEERING

# Managing Software Process Watts Humphrey

**Jianjun Gao**



## **Managing Software Process Watts Humphrey:**

**Managing the Software Process** Watts S. Humphrey, 1989 The author drawing on years of experience at IBM and the SEI provides here practical guidance for improving the software development and maintenance process He focuses on understanding and managing the software process because this is where he feels organizations now encounter the most serious problems and where he feels there is the best opportunity for significant improvement Both program managers and practicing programmers whether working on small programs or large scale projects will learn how good their own software process is how they can make their process better and where they need to begin This book will help you move beyond the turning point or crisis of feeling overwhelmed by the task of managing the software process to understanding what is essential in software management and what you can do about it Peter Freeman from the Foreword 0201180952B04062001

Managing Technical People: Innovation, Teamwork, And The Software Process Humphrey, 1997-09 This Book Contains Best Selling Author Watts Humphrey S Practical Insight On How To Lead Technical Professionals In Previous Books Humphrey Established Process As A Key Factor In Successful Software Development His Advice On How Companies And Individuals Improve Their Software Process Has Since Been Widely Adopted In This New Book He Demonstrates The Overriding Importance Of People To The Success Of Any Software Project He Focuses Particularly On The Critical Role Of Innovative People And Gives Concrete Advice On How To Identify Motivate People Into Highly Productive Teams

**Introduction to the Team Software Process(sm)** Watts S. Humphrey, 1999-08-24 Watts Humphrey is the visionary behind the Capability Maturity Model CMM R and the Personal Software Process PSP sm The CMM contains a framework for software process improvement at the organizational level The PSP builds the self discipline needed for individual programmers to work efficiently and effectively The author s new Team Software Process TSP sm details methods to guide the formation of software development teams to motivate their work and to enhance their productivity This book describes an introductory version of TSP ideal for smaller projects but also useful for learning basic techniques and procedures that apply to other development projects Methods presented include how to establish roles how to conceive design and plan a project how to track and report on progress The book walks readers through a complete development cycle illustrating how best to use the talents at hand how to formulate well defined goals how to coordinate activities for maximum progress how to promote effective communication how to alleviate many of the conflicts that undermine teamwork Team members should not have to expend valuable time and energy reinventing ways to organize and run their team By following a proven process the team will more quickly be able to focus on the successful completion of the project itself To help a team course apply these methods the book provides two project exercises with prescribed development goals and team roles Managing Software Process Evolution Marco Kuhrmann, Jürgen Münch, Ita Richardson, Andreas Rausch, He Zhang, 2016-09-15 This book focuses on the design development management governance and application of evolving software processes that are aligned with

changing business objectives such as expansion to new domains or shifting to global production In the context of an evolving business world it examines the complete software process lifecycle from the initial definition of a product to its systematic improvement In doing so it addresses difficult problems such as how to implement processes in highly regulated domains or where to find a suitable notation system for documenting processes and provides essential insights and tips to help readers manage process evolutions And last but not least it provides a wealth of examples and cases on how to deal with software evolution in practice Reflecting these topics the book is divided into three parts Part 1 focuses on software business transformation and addresses the questions of which processes to use and adapt and how to organize process improvement programs Subsequently Part 2 mainly addresses process modeling Lastly Part 3 collects concrete approaches experiences and recommendations that can help to improve software processes with a particular focus on specific lifecycle phases This book is aimed at anyone interested in understanding and optimizing software development tasks at their organization While the experiences and ideas presented will be useful for both those readers who are unfamiliar with software process improvement and want to get an overview of the different aspects of the topic and for those who are experts with many years of experience it particularly targets the needs of researchers and Ph D students in the area of software and systems engineering or information systems who study advanced topics concerning the organization and management of software development projects and process improvements projects

The CERT Oracle Secure Coding Standard for Java Fred Long, 2012 In the Java world security is not viewed as an add on a feature It is a pervasive way of thinking Those who forget to think in a secure mindset end up in trouble But just because the facilities are there doesn't mean that security is assured automatically A set of standard practices has evolved over the years The Secure Coding Standard for Java™ is a compendium of these practices These are not theoretical research papers or product marketing blurbs This is all serious mission critical battle tested enterprise scale stuff James A Gosling Father of the Java Programming Language An essential element of secure coding in the Java programming language is a well documented and enforceable coding standard Coding standards encourage programmers to follow a uniform set of rules determined by the requirements of the project and organization rather than by the programmer's familiarity or preference Once established these standards can be used as a metric to evaluate source code using manual or automated processes The CERT Oracle Secure Coding Standard for Java™ provides rules designed to eliminate insecure coding practices that can lead to exploitable vulnerabilities Application of the standard's guidelines will lead to higher quality systems robust systems that are more resistant to attack Such guidelines are required for the wide range of products coded in Java for devices such as PCs game players mobile phones home appliances and automotive electronics After a high level introduction to Java application security seventeen consistently organized chapters detail specific rules for key areas of Java development For each area the authors present noncompliant examples and corresponding compliant solutions show how to assess risk and offer references for further information Each

rule is prioritized based on the severity of consequences likelihood of introducing exploitable vulnerabilities and cost of remediation The standard provides secure coding rules for the Java SE 6 Platform including the Java programming language and libraries and also addresses new features of the Java SE 7 Platform It describes language behaviors left to the discretion of JVM and compiler implementers guides developers in the proper use of Java s APIs and security architecture and considers security concerns pertaining to standard extension APIs from the javax package hierarchy The standard covers security issues applicable to these libraries lang util Collections Concurrency Utilities Logging Management Reflection Regular Expressions Zip I O JMX JNI Math Serialization and JAXP

**Software Security Engineering** Nancy R. Mead,Julia H. Allen,Sean Barnum,Robert J. Ellison,Gary R. McGraw,2004-04-21 Software Security Engineering draws extensively on the systematic approach developed for the Build Security In BSI Web site Sponsored by the Department of Homeland Security Software Assurance Program the BSI site offers a host of tools guidelines rules principles and other resources to help project managers address security issues in every phase of the software development life cycle SDLC The book s expert authors themselves frequent contributors to the BSI site represent two well known resources in the security world the CERT Program at the Software Engineering Institute SEI and Cigital Inc a consulting firm specializing in software security This book will help you understand why Software security is about more than just eliminating vulnerabilities and conducting penetration tests Network security mechanisms and IT infrastructure security services do not sufficiently protect application software from security risks Software security initiatives should follow a risk management approach to identify priorities and to define what is good enough understanding that software security risks will change throughout the SDLC Project managers and software engineers need to learn to think like an attacker in order to address the range of functions that software should not do and how software can better resist tolerate and recover when under attack

**CMMI Distilled** Dennis M. Ahern,Aaron Clouse,Richard N. Turner,2008-05-01 CMMI Capability Maturity Model Integration is an integrated extensible framework for improving process capability and quality across an organization It has become a cornerstone in the implementation of continuous improvement for both industry and governments around the world Rich in both detail and guidance for a wide set of organizational domains the CMMI Product Suite continues to evolve and expand Updated for CMMI Version 1.2 this third edition of CMMI Distilled again provides a concise and readable introduction to the model as well as straightforward no nonsense information on integrated continuous process improvement The book now also includes practical advice on how to use CMMI in tandem with other approaches including Six Sigma and Lean as well as new and expanded guidance on preparing for managing and using appraisals Written so that readers unfamiliar with model based process improvement will understand how to get started with CMMI the book offers insights for those more experienced as well It can help battle scarred process improvement veterans and experienced suppliers and acquirers of both systems and services perform more effectively CMMI Distilled is especially appropriate for executives and managers who need to understand why continuous

improvement is valuable why CMMI is a tool of choice and how to maximize the return on their efforts and investments Engineers of all kinds systems hardware software and quality as well as acquisition personnel and service providers will find ideas on how to perform better The three authors all involved with CMMI since its inception bring a wealth of experience and knowledge to this book They highlight the pitfalls and shortcuts that are all too often learned by costly experience and they provide a context for understanding why the use of CMMI continues to grow around the world *Managing Software Acquisition* B. Craig Meyers, Patricia Oberndorf, 2001 This title looks at strategies for reducing IT costs and improving quality including open systems and off the shelf software It explains the advantages risks and management implications of IT strategies based on these approaches Introduction to the Personal Software Process(SM) Watts S. Humphrey, Watts S. Humphrey - Carnegie Mellon University, 1996 **Estimating Software Costs : Bringing Realism to Estimating** Capers Jones, 2007-04-19 Deliver bug free software projects on schedule and within budget Get a clear complete understanding of how to estimate software costs schedules and quality using the real world information contained in this comprehensive volume Find out how to choose the correct hardware and software tools develop an appraisal strategy deploy tests and prototypes and produce accurate software cost estimates Plus you ll get full coverage of cutting edge estimating approaches using Java object oriented methods and reusable components Plan for and execute project phase and activity level cost estimations Estimate regression component integration and stress tests Compensate for inaccuracies in data collection calculation and analysis Assess software deliverables and data complexity Test design principles and operational characteristics using software prototyping Handle configuration change research quality control and documentation costs Capers Jones work offers a unique contribution to the understanding of the economics of software production It provides deep insights into why our advances in computing are not matched with corresponding improvements in the software that drives it This book is absolutely required reading for an understanding of the limitations of our technological advances Paul A Strassmann former CIO of Xerox the Department of Defense and NASA **Software Process Improvement and Management: Approaches and Tools for Practical Development** Fauzi, Shukor Sanim Mohd, Nasir, Mohd Hairul Nizam Md, Ramli, Nuraminah, Sahibuddin, Shamsul, 2011-11-30 Over the past decade there has been an increase in attention and focus on the discipline of software engineering Software engineering tools and techniques have been developed to gain more predictable quality improvement results Process standards such as Capability Maturity Model Integration CMMI ISO 9000 Software Process Improvement and Capability determination SPICE Agile Methodologies and others have been proposed to assist organizations to achieve more predictable results by incorporating these proven standards and procedures into their software process Software Process Improvement and Management Approaches and Tools for Practical Development offers the latest research and case studies on software engineering and development The production of new process standards assist organizations and software engineers in adding a measure of predictability to the software process Companies can

gain a decisive competitive advantage by applying these new and theoretical methodologies in real world scenarios Researchers scholars practitioners students and anyone interested in the field of software development and design should access this book as a major compendium of the latest research in the field

**A Discipline for Software Engineering** Watts S. Humphrey,1995 Watts S Humphrey author of Managing the Software Process broadens his disciplined approach to software engineering In this book Humphrey helps software practitioners develop the skills and the habits they will need in order to plan track and analyze large and complex projects more carefully and successfully Clear examples and sample forms of projects are included

Estimating Software-intensive Systems Richard D. Stutzke,2005 Annotation This book outlines practical proven estimating techniques that are simple and easy to use for software practitioners

**TSP(SM) Leading a Development Team, Portable Documents** Watts S. Humphrey,2005-09-06 Leaders of software development projects face many challenges First you must produce a quality product on schedule and on budget Second you must foster and encourage a cohesive motivated and smoothly operating team And third you must maintain a clear and consistent focus on short and long term goals while exemplifying quality standards and showing confidence and enthusiasm for your team and its efforts Most importantly as a leader you need to feel and act responsible for your team and everything that it does Accomplishing all these goals in a way that is rewarding for the leader and the team while producing the results that management wants is the motivation behind the Team Software Process TSP Developed by renowned quality expert Watts S Humphrey TSP is a set of new practices and team concepts that helps developers take the CMM and CMMI Capability Maturity Models to the next level Not only does TSP help make software more secure it results in an average production gain of 68 percent per project Because of their quality timeliness and security TSP produced products can be ten to hundreds of times better than other hardware or software In this essential guide to TSP Humphrey uses his vast industry experience to show leaders precisely how to lead teams of software engineers trained in the Personal Software Process PSP He explores all aspects of effective leadership and teamwork including building the right team for the job the TSP launch process following the process to produce a quality product project reviews and capitalizing on both the leader s and team s capabilities Humphrey also illuminates the differences between an ineffective leader and a superb one with the objective of helping you understand anticipate and correct the most common leadership failings before they undermine the team An extensive set of appendices provides additional detail on TSP team roles and shows you how to use an organization s communication and command networks to achieve team objectives Whether you are a new or an experienced team leader TSPSM Leading a Development Team provides invaluable examples guidelines and suggestions on how to handle the many issues you and your team face together

**The Software Project Manager's Handbook** Dwayne Phillips,1998-07-11 Written for researchers professors practitioners students and other computing professionals this book covers Basics that Work at Work People Process and Product Visibility Configuration Management Process Planning Risk Management Requirements Design Testing Managing a

Project Day by Day Managing Software Maintenance and more

**Managing Risk** Elaine M. Hall, 1998 The increasing rate of technological change we are experiencing in our lifetime yields competitive advantage to organizations and individuals who are willing to embrace risk and the opportunities it presents Those who choose to minimize or avoid risk as opposed to managing it set a course for obsolescence Hall has captured the essence of risk management and given us a practical guide for the application of useful principles in software intensive product development This is must reading for public and private sector managers who want to succeed as we begin the next century Daniel P Czelusniak Director Acquisition Program Integration Office of the Under Secretary of Defense Acquisition and Technology The Pentagon Since it is more than just common sense the newcomer to risk management needs an intelligent guide It is in this role that Elaine Hall s book excels This book provides a set of practical and well delineated processes for implementation of the discipline Tom DeMarco from the Foreword Risk is inherent in the development of any large software system A common approach to risk in software development is to ignore it and hope that no serious problems occur Leading software companies use quantitative risk management methods as a more useful approach to achieve success Written for busy professionals charged with delivering high quality products on time and within budget Managing Risk is a comprehensive guide that describes a success formula for managing software risk The book is divided into five parts that describe a risk management road map designed to take you from crisis to control of your software project Highlights include Six disciplines for managing product development Steps to predictable risk management process results How to establish the infrastructure for a risk aware culture Methods for the implementation of a risk management plan Case studies of people in crisis and in control

**Texas Instruments Technical Journal** , 1995

Software Process Improvement Sami Zahran, 1998 This book will help you to manage and control the quality of your organization s software products Continually dealing with the problems caused by software defects can be both time consuming and demanding but Sami Zahran s pragmatic approach will take you from reactive fire fighting to a preventative culture of disciplined and continuous process improvement This book will help you establish a process focused software development organization design and implement procedures for developing quality software in time and within budget benchmark your organization against the industry standards for the software process including the Capability Maturity Model CMM ISO 9001 the new standard ISO IEC 15504 originally known as SPICE and Bootstrap

**Improving the Software Process Through Process Definition and Modeling** Software Productivity Consortium, 1996 Provides methods for analyzing a given manufacturing or design process so that the process can then be re engineered to achieve dramatic gains to productivity efficiency and quality

Beyond Chaos Larry L. Constantine, 2001 The popularity of the Management Forum in Software Development Magazine is not surprising Because the majority of software development projects fail to come in on time on budget or on specification software development managers are constantly seeking out management approaches and techniques that will help them achieve success Many software development projects

deteriorate into a state of chaos In Beyond Chaos the keenest contributions to the Management Forum have been incorporated into a single volume to reveal best practices in managing software projects and organizations The forty five essays contained in this book are written by many of the leading names in software development software engineering and technical management Each piece has been selected and edited to provide highly focused ideas and suggestions that can be translated into immediate practice Pragmatic and provocative they address key management concerns involving people planning and productivity coping under pressure quality development processes and leadership and teamwork Highlights of the book include Larry Constantine Dealing with Difficult People Changing the Changeable Karl Wieggers First Things First A Project Manager s Primer Capers Jones Productivity by the Numbers What Can Speed Up or Slow Down Software Development Ed Yourdon Death March Surviving a Hopeless Project Dave Thomas Web Time Development High Speed Software Engineering Meilir Page Jones Seduced by Reuse Realizing Reusable Components Jim Highsmith Order for Free An Organic Model for Adaptation Steve McConnell Managing Outsourced Projects Project Management Inside Out These and many more insightful and advisory essays together represent the cutting edge in software development management and the collective wisdom of the field s most knowledgeable practitioners Both entertaining and enlightening Beyond Chaos will enrich your skills and enhance your deeper understanding of the process of bringing software from idea to reality

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## Reviewing **Managing Software Process Watts Humphrey**: Unlocking the Spellbinding Force of Linguistics

In a fast-paced world fueled by information and interconnectivity, the spellbinding force of linguistics has acquired newfound prominence. Its capacity to evoke emotions, stimulate contemplation, and stimulate metamorphosis is actually astonishing. Within the pages of "**Managing Software Process Watts Humphrey**," an enthralling opus penned by a highly acclaimed wordsmith, readers attempt an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve to the book is central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

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