

881 SERIES IN SOFTWARE ENGINEERING



# Software Product Lines



Practices  
and  
Patterns

Paul Clements  
Linda Northrop

# Software Product Lines Practices And Patterns

**Robert L. Nord**



## **Software Product Lines Practices And Patterns:**

Software Product Lines Paul Clements, Linda Northrop, 2002-01 Long a standard practice in traditional manufacturing the concept of product lines is relatively new to the software industry A software product line is a family of systems that share a common set of core technical assets with preplanned extensions and variations to address the needs of specific customers or market segments Software organizations of all types and sizes are discovering that when skillfully implemented a product line strategy can yield enormous gains in productivity quality and time to market Software Product Lines is the culmination of an intensive investigation undertaken by the Software Engineering Institute SEI at Carnegie Mellon into how leading edge software development organizations have retooled for product lines With explanations of fundamental concepts further illuminated by real world experience this book spells out the technical issues involved in adopting a product line strategy as well as the organizational and management issues that are so critical for success In providing a comprehensive set of practices and patterns this book defines and explores the key activities for software product line development and explains specific practice areas in engineering technical management and organizational management Highlights include The benefits of a software product line approach including actual improvement data from industrial success stories Methods to develop a reusable base of core assets and to develop products that utilize that core Common problems paired with concrete solutions in the form of reusable software product line patterns Twenty nine practice areas for successful implementation including architecture definition component development configuration management market analysis and training The product line technical probe for identifying technical and organizational weaknesses that could impede success Three detailed case studies from the industry lead you step by step through the process of developing and managing software product lines illustrating potential pitfalls creative solutions and the ultimate rewards Discussion questions sidebars and real world anecdotes from the trenches reveal the collective wisdom of those on the front line of software product line ventures

0201703327B09102001 *The Java Developers Almanac* Patrick Chan, 2001 **Software Product Lines** Paul Clements, Linda Northrop, 2015-12-04 **Software Product Lines** Robert L. Nord, 2004-07-30 This book constitutes the refereed proceedings of the Third International Software Product Line Conference SPLC 2004 held in Boston MA USA in August September 2004 The 18 revised full technical papers presented together with a keynote abstract and summaries of panels tutorials and workshops were carefully reviewed and selected for inclusion in the book Organized in sections on business architecture and quality assurance the papers address topics ranging from how to start a software product line in a company to case studies of mature product lines and the technology used to test strategies of product lines to strategies and notations for creating product line architectures and to the importance of binding times in creating product lines

Software Product Lines Gary J. Chastek, 2003-08-02 Software product lines are emerging as an important new paradigm for software development Product lines are enabling organizations to achieve impressive time to market gains and cost

reductions In 1997 we at the Software Engineering Institute SEI launched a Product Line Practice Initiative Our vision was that product line development would be a low risk high return proposition for the entire software engineering community It was our hope from the beginning that there would eventually be sufficient interest to hold a conference The First Software Product Line Conference SPLC1 was the realization of that hope Since SPLC1 we have seen a growing interest in software product lines Companies are launching their own software product line initiatives product line technical and business practices are maturing product line tool vendors are emerging and books on product lines are being published Motivated by the enthusiastic response to SPLC1 and the increasing number of software product lines and product line researchers and practitioners the SEI is proud to sponsor this second conference dedicated to software product lines We were gratified by the submissions to SPLC2 from all parts of the globe from government and commercial organizations From these submissions we were able to assemble a rich and varied conference program with unique opportunities for software product line novices experts and those in between This collection represents the papers selected from that response and includes research and experience reports

**Applied Software Product Line Engineering** Kyo C. Kang,Vijayan Sugumaran,Sooyong Park,2009-12-22 Over the last decade software product line engineering SPLE has emerged as one of the most promising software development paradigms for increasing productivity in IT related industries Detailing the various aspects of SPLE implementation in different domains Applied Software Product Line Engineering documents best practices with regard to systems

**Software Product Lines** ,2002 **Recent Trends and Advances in Model Based Systems Engineering** Azad M. Madni,Barry Boehm,Daniel Erwin,Mahta Moghaddam,Michael Sievers,Marilee Wheaton,2022-03-24 This volume comprises papers from the 18th Conference on Systems Engineering Research CSER The theme of this volume Recent Trends and Advances in Model Based Systems Engineering reflects the fact that systems engineering is undergoing a transformation motivated by mission and system complexity and enabled by technological advances such as model based systems engineering digital engineering and the convergence of systems engineering with other disciplines This conference is focused on exploring recent trends and advances in model based systems engineering MBSE and the synergy of MBSE with simulation technology and digital engineering Contributors have submitted papers on MBSE methods modeling approaches integration of digital engineering with MBSE standards modeling languages ontologies and metamodels and economics analysis of MBSE to respond to the challenges posed by 21st century systems What distinguishes this volume are the latest advances in MBSE research the convergence of MBSE with digital engineering and recent advances in applied research in MBSE including growing convergence with systems science and decision science This volume is appropriate as a reference text in graduate engineering courses in Model Based Systems Engineering

Designing Software Product Lines with UML Hassan Gomaa,2005 Designing Software Product Lines with UML is well written informative and addresses a very important topic It is a valuable contribution to the literature in this area and offers practical guidance for software architects

and engineers Alan Brown Distinguished Engineer Rational Software IBM Software Group Goma s process and UML extensions allow development teams to focus on feature oriented development and provide a basis for improving the level of reuse across multiple software development efforts This book will be valuable to any software development professional who needs to manage across projects and wants to focus on creating software that is consistent reusable and modular in nature Jeffrey S Hammond Group Marketing Manager Rational Software IBM Software Group This book brings together a good range of concepts for understanding software product lines and provides an organized method for developing product lines using object oriented techniques with the UML Once again Hassan has done an excellent job in balancing the needs of both experienced and novice software engineers Robert G Pettit IV Ph D Adjunct Professor of Software Engineering George Mason University This breakthrough book provides a comprehensive step by step approach on how to develop software product lines which is of great strategic benefit to industry The development of software product lines enables significant reuse of software architectures Practitioners will benefit from the well defined PLUS process and rich case studies Hurley V Blankenship II Program Manager Justice and Public Safety Science Applications International Corporation The Product Line UML based Software engineering PLUS is leading edge With the author s wide experience and deep knowledge PLUS is well harmonized with architectural and design pattern technologies Michael Shin Assistant Professor Texas Tech University Long a standard practice in traditional manufacturing the concept of product lines is quickly earning recognition in the software industry A software product line is a family of systems that shares a common set of core technical assets with preplanned extensions and variations to address the needs of specific customers or market segments When skillfully implemented a product line strategy can yield enormous gains in productivity quality and time to market Studies indicate that if three or more systems with a degree of common functionality are to be developed a product line approach is significantly more cost effective To model and design families of systems the analysis and design concepts for single product systems need to be extended to support product lines Designing Software Product Lines with UML shows how to employ the latest version of the industry standard Unified Modeling Language UML 2 0 to reuse software requirements and architectures rather than starting the development of each new system from scratch Through real world case studies the book illustrates the fundamental concepts and technologies used in the design and implementation of software product lines This book describes a new UML based software design method for product lines called PLUS Product Line UML based Software engineering PLUS provides a set of concepts and techniques to extend UML based design methods and processes for single systems in a new dimension to address software product lines Using PLUS the objective is to explicitly model the commonality and variability in a software product line Hassan Goma explores how each of the UML modeling views use case static state machine and interaction modeling can be extended to address software product families He also discusses how software architectural patterns can be used to develop a reusable component based architecture for a product line and how to express this architecture as a UML

platform independent model that can then be mapped to a platform specific model Key topics include Software product line engineering process which extends the Unified Development Software Process to address software product lines Use case modeling including modeling the common and variable functionality of a product line Incorporating feature modeling into UML for modeling common optional and alternative product line features Static modeling including modeling the boundary of the product line and information intensive entity classes Dynamic modeling including using interaction modeling to address use case variability State machines for modeling state dependent variability Modeling class variability using inheritance and parameterization Software architectural patterns for product lines Component based distributed design using the new UML 2.0 capability for modeling components connectors ports and provided and required interfaces Detailed case studies giving a step by step solution to real world product line problems Designing Software Product Lines with UML is an invaluable resource for all designers and developers in this growing field The information technology and case studies presented here show how to harness the promise of software product lines and the practicality of the UML to take software design quality and efficiency to the next level An enhanced online index allows readers to quickly and easily search the entire text for specific topics

The CERT Guide to System and Network Security Practices Julia H. Allen, 2001 Showing how to improve system and network security this guide explores the practices and policies of deploying firewalls securing network servers securing desktop workstations intrusion detection response and recovery

**In-vehicle Software & Hardware Systems**, 2006

*Proceedings of the ... ASME Design Engineering Technical Conferences*, 2003

**Object-Oriented and Classical Software Engineering** Stephen Schach, 2007 Integrating case studies to show the object oriented approach to software engineering Object Oriented and Classical Software Engineering 7 e presents an excellent introduction to software engineering fundamentals covering both traditional and object oriented techniques The coverage of both Agile processes and Open Source Software has been considerably expanded In addition the Osbert Oglesby running case study has been replaced with a new case study on the Martha Stockton Greengage Foundation The new study highlights even more aspects of the Unified Process The book's unique organization remains in place with Part I covering underlying software engineering theory and Part II presenting the more practical life cycle Complementing this well balanced approach is the straightforward student friendly writing style through which difficult concepts are presented in a clear understandable manner The new seventh edition provides an extensive updating of this classic software engineering text

*Product Focused Software Process Improvement*, 2005

Fundamental Approaches to Software Engineering, 2005

**Architecture-centric Software Project Management** Daniel J. Paulish, 2002 To fully leverage the value of software architecture in enterprise development projects you need to expressly and consciously link architecture with project management This book shows how drawing on powerful lessons learned at Siemens one of the world's leading software development organizations The authors offer insight into project management for software architects insight into software architecture for project managers and

above all insight into integrating the two disciplines to maximize the effectiveness of both of them Learn how to develop cost and schedule estimates for development projects based on software architecture how to clarify architecture so projects can be more effectively planned and managed and then how to use architecture to organize implement and measure the project iteratively as work progresses     Pattern-oriented Software Architecture Douglas C. Schmidt, Frank Buschmann, 1996 This fourth volume in the POSA series explores the concepts underlying patterns The goal is to bring together the POSA pattern theory in one volume allowing readers to deepen their understanding of what patterns are what they are not and how to use them successfully     Software Engineering for Multi-agent Systems ... ,2006     Proceedings ,2005     Proceedings of the Joint 10th European Software Engineering Conference (ESEC) and the 13th ACM SIGSOFT Symposium on the Foundations of Software Engineering (FSE-13) Harald Gall, 2005

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