

SEI SERIES IN SOFTWARE ENGINEERING

# Documenting Software Architectures



Views  
and  
Beyond

SECOND EDITION

Paul Clements • Felix Bachmann • Len Bass  
David Garlan • James Ivers • Reed Little  
Paulo Merson • Robert Nord • Judith Stafford

# Documenting Software Architectures Views And Beyond

**Len Bass,Paul Clements,Rick Kazman**



## **Documenting Software Architectures Views And Beyond:**

**Documenting Software Architectures** Paul Clements,2003 Architecture is crucial to the success of any large software system but even a superb architecture will fail if it isn't communicated well Now there's a language and notation independent guide to capturing architecture so it can be used successfully by every analyst software designer and developer The authors review the diverse goals and uses of software architecture documentation providing documentation strategies for several common scenarios They identify the basic unit of software architecture documentation the viewtype which specifies the type of information to be provided in an architectural view For each viewtype Modules Component and Connectors and Allocation they offer detailed guidance on documenting what really matters Next they demonstrate how to package architecture documentation in coherent usable form augmenting architectural views with documentation of interfaces and behavior accounting for architectural variability and dynamic systems and more

**Documenting Software Architectures : Views and Beyond** ,2010      **Documenting Software Architectures** Paul Clements,2003

**Documenting Software Architectures** ,2011      **Documenting Software Architectures** Paul Clements,Felix Bachmann,Len Bass,David Garlan,James Ivers,Reed Little,Paulo Merson,Robert Nord,Judith Stafford,2010-10-05 Software architecture the conceptual glue that holds every phase of a project together for its many stakeholders is widely recognized as a critical element in modern software development Practitioners have increasingly discovered that close attention to a software system's architecture pays valuable dividends Without an architecture that is appropriate for the problem being solved a project will stumble along or most likely fail Even with a superb architecture if that architecture is not well understood or well communicated the project is unlikely to succeed Documenting Software Architectures Second Edition provides the most complete and current guidance independent of language or notation on how to capture an architecture in a commonly understandable form Drawing on their extensive experience the authors first help you decide what information to document and then with guidelines and examples in various notations including UML show you how to express an architecture so that others can successfully build use and maintain a system from it The book features rules for sound documentation the goals and strategies of documentation architectural views and styles documentation for software interfaces and software behavior and templates for capturing and organizing information to generate a coherent package New and improved in this second edition Coverage of architectural styles such as service oriented architectures multi tier architectures and data models Guidance for documentation in an Agile development environment Deeper treatment of documentation of rationale reflecting best industrial practices Improved templates reflecting years of use and feedback and more documentation layout options A new comprehensive example available online featuring documentation of a Web based service oriented system Reference guides for three important architecture documentation languages UML AADL and SySML

**Summary Record of the 1st Part (public) of the 2199th Meeting, Held at the Palais Wilson, Geneva, on**

**Tuesday, 13 July 2004**, 2004      *Comparing the SEI's Views and Beyond Approach for Documenting Software Architectures with ANSI-IEEE 1471-2000* Paul Clements, 2005 Abstract Architecture documentation has emerged as an important architecture related practice In 2002 researchers at the Carnegie Mellon registered trademark Software Engineering Institute completed Documenting Software Architectures Views and Beyond V B an approach that holds that documenting a software architecture is a matter of choosing a set of relevant views of the architecture documenting each of those views and then documenting information that applies to more than one view or to the set of views as a whole Details of the approach include a method for choosing the most relevant views standard templates for documenting views and the information beyond them and definitions of the templates content At about the same time the Institute of Electrical and Electronics Engineers IEEE was developing a recommended best practice for describing architectures for software intensive systems ANSI IEEE Std 1471 2000 Like V B that standard takes a multi view approach to the task of architecture documentation and it establishes a conceptual framework for architectural description and defines the content of an architectural description This technical note summarizes the two approaches and shows how a software architecture document prepared using the V B approach can be made compliant with Std 1471 2000      **Documenting Software Architectures** Paul Clements, 1900 This new edition is brighter shinier more complete more pragmatic more focused than the previous one and I wouldn't have thought it possible to improve on the original As the field of software architecture has grown over these past decades there is much more to be said much more that we know and much more that we can reflect upon of what's worked and what hasn't and the authors here do all that and more The Foreword by Grady Booch IBM Fellow Software architecture the conceptual glue that holds every phase of a project together for its many stakeholders is widely recognized      *Documenting Software Architectures*, 2003      Creating and Using Software Architecture Documentation Using Web-based Tool Support Judith Alyce Stafford, 2004 Abstract Documenting software architecture DSA is a crucial facet in the development of a software system yet often it is carried out in a haphazard fashion if at all Lack of attention to the documentation results from insufficient guidance about what should be documented and when and how to capture the information so that system stakeholders find it useful The book Documenting Software Architectures Views and Beyond provides such guidance in the DSA approach and this report describes the conceptual design for a documentation system based on that approach A system is envisioned that enables the architect to capture architectural decisions and related artifacts as a living repository that can communicate information to stakeholders who might be both geographically and temporally distributed The system must communicate in a way that allows each stakeholder quick and easy access to information relevant to the person's role in the software development process This report describes a design prototype that demonstrates a Web based approach to creating communicating and using software architecture throughout the life of the system      A Software Architecture Primer John Reekie, Rohan McAdam, Rohan James McAdam, 2006 The authors present a fresh pragmatic approach to the study of software

architecture This edition contains a series of chapters that introduce and develop an understanding of software architecture by means of careful explanation and elaboration of a range of key concepts Computer Books     Advanced Software Engineering: Expanding the Frontiers of Software Technology Sergio F. Ochoa, Gruia-Catalin Roman, 2006-08-10 On behalf of the Organizing Committee for this event we are glad to welcome you to IWASE 2006 the First International Workshop on Advanced Software Engineering We hope you will enjoy the traditional Chilean hospitality and of course please tell us how we can make your visit a pleasant and useful experience The goal of this Workshop is to create a new forum for researchers professionals and educators to discuss advanced software engineering topics A distinctive feature of this Workshop is its attempt to foster interactions between the Latin American software engineering community and computer scientists around the world This is an opportunity to discuss with other researchers or simply to meet new colleagues IWASE 2006 has been organized to facilitate strong interactions among those attending it and to offer ample time for discussing each paper IWASE 2006 attracted 28 submissions from 14 countries 8 of them outside Latin America Each of the 28 articles was reviewed by at least three members of the Program Committee As a result of this rigorous reviewing process 13 papers were accepted nine fill papers and four work in progress papers These papers were grouped in four tracks software architecture software modeling software development process and experiences in software development     **Software Architecture** Ivica Crnkovic, Volker Gruhn, Matthias Book, 2011-09-09 This book constitutes the refereed proceedings of the 5th European Conference on Software Architecture ECSA 2011 held in Essen Germany in September 2011 The 13 revised full papers presented together with 24 emerging research papers and 7 research challenge poster papers were carefully reviewed and selected from over 100 submissions The papers are organized in topical sections on requirements and software architectures software architecture components and compositions quality attributes and software architectures software product line architectures architectural models patterns and styles short papers process and management of architectural decisions software architecture run time aspects ADLs and metamodels and services and software architectures     Software Architecture Ronald Morrison, Dharini Balasubramaniam, Katrina Falkner, 2008-09-12 This book constitutes the refereed proceedings of the Second European Conference on Software Architecture ECSA 2008 held in Paphos Cyprus in September October 2008 The 12 revised full papers presented together with 2 keynote abstracts 4 experience papers 7 emerging research papers and 12 research challenge poster papers were carefully reviewed and selected from 83 submissions The papers focus on formalisms technologies and processes for describing verifying validating transforming building and evolving software systems Topics include architecture modeling architecture description languages architectural aspects architecture analysis transformation and synthesis architecture evolution quality attributes model driven engineering built in testing and architecture based support for component based and service oriented systems     **Software Architecture in Practice** Len Bass, Paul Clements, Rick Kazman, 2003-04-09 This award winning book substantially updated to reflect the latest

developments in the field introduces the concepts and best practices of software architecture how a software system is structured and how that system's elements are meant to interact Distinct from the details of implementation algorithm and data representation an architecture holds the key to achieving system quality is a reusable asset that can be applied to subsequent systems and is crucial to a software organization's business strategy Drawing on their own extensive experience the authors cover the essential technical topics for designing specifying and validating a system They also emphasize the importance of the business context in which large systems are designed Their aim is to present software architecture in a real world setting reflecting both the opportunities and constraints that companies encounter To that end case studies that describe successful architectures illustrate key points of both technical and organizational discussions Topics new to this edition include Architecture design and analysis including the Architecture Tradeoff Analysis Method ATAM Capturing quality requirements and achieving them through quality scenarios and tactics Using architecture reconstruction to recover undocumented architectures Documenting architectures using the Unified Modeling Language UML New case studies including Web based examples and a wireless Enterprise JavaBeans™ EJB system designed to support wearable computers The financial aspects of architectures including use of the Cost Benefit Analysis Method CBAM to make decisions If you design develop or manage the building of large software systems or plan to do so or if you are interested in acquiring such systems for your corporation or government agency use *Software Architecture in Practice Second Edition* to get up to speed on the current state of software architecture

**Software Architecture** Matthias Galster, Patrizia Scandurra, Tommi Mikkonen, Pablo Oliveira Antonino, Elisa Yumi Nakagawa, Elena Navarro, 2024-08-31 This book constitutes the refereed proceedings of the 18th European Conference on Software Architecture ECSA 2024 held in Luxembourg City Luxembourg during September 2-6 2024 The 14 full research papers 3 experience report papers 7 short papers and 3 industry papers included in this book were carefully reviewed and selected from 89 submissions They were organized in topical sections as follows Architecture modeling and design Architecture evaluation Microservices architecture Sustainability Trustworthiness Architecture decision making and Architecture documentation

**Software Architecture Fundamentals** Mahbouba Gharbi, Arne Koschel, Andreas Rausch, 2020-06-12 Software architecture is an important factor in ensuring the success of any software project It provides a systematically designed framework that ensures the fulfilment of quality requirements such as expandability flexibility performance and time to market A software architect's job is to reconcile customer requirements with the available technical options and constraints while designing an overall structure that allows all components of the system to interact smoothly This book gives you all the basic know how you need to begin designing scalable system software architectures It goes into detail on all the most important terms and concepts and how they relate to other IT practices Following on from the basics it describes the techniques and methods required for the planning documentation and quality management of software architectures It details the role the tasks and the work environment of a software architect as well

as looking at how the job itself is embedded in company and project structures The book also addresses the tools required for the job This edition has been updated to conform to the ISO IEC 25010 and ISO IEC IEEE 42010 standards It also puts increased emphasis on domain driven design and looks at contemporary architectures such as microservices The book is based on the International Software Architecture Qualification Board s Certified Professional for Software Architecture Foundation Level CPSA F syllabus version 4 1 1 July 2017

### **Documenting Software Architectures in an Agile World**

Paul Clements,2003 Abstract This report compares the Software Engineering Institute s Views and Beyond approach for documenting software architectures with the documentation philosophy embodied in agile software development methods This report proposes an approach for capturing architecture information in a way that is consistent with agile methods

**Integrated Models for Information Communication Systems and Networks: Design and Development** Atayero, Aderemi Aaron Anthony,Sheluhin, Oleg I.,2013-06-30 With current advancements in the modeling and simulation of systems and networks researchers and developers are better able to determine the probable state of current systems and envision the state of future systems during the design stage The uses and accuracies of these models are essential to every aspect of communication systems Integrated Models for Information Communication Systems and Networks Design and Development explores essential information and current research findings on information communication systems and networks This reference source aims to assist professionals in the desire to enhance their knowledge of modeling at systems level with the aid of modern software packages

### **Architecting Software Intensive Systems** Anthony J. Lattanze,2008-11-18

Architectural design is a crucial first step in developing complex software intensive systems Early design decisions establish the structures necessary for achieving broad systemic properties However today s organizations lack synergy between software their development processes and technological methodologies Providing a thorough treatment of

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