# Enterprise Integration Patterns: Designing, Building, and Deploying Messaging Solutions

*By Gregor Hohpe, Bobby Woolf*

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*Enterprise Integration Patterns* provides an invaluable catalog of sixty-five patterns, with real-world solutions that demonstrate the formidable of messaging and help you to design effective messaging solutions for your enterprise.

The authors also include examples covering a variety of different integration technologies, such as JMS, MSMQ, TIBCO ActiveEnterprise, Microsoft BizTalk, SOAP, and XSL. A case study describing a bond trading system illustrates the patterns in practice, and the book offers a look at emerging standards, as well as insights into what the future of enterprise integration might hold.

This book provides a consistent vocabulary and visual notation framework to describe large-scale integration solutions across many technologies. It also explores in detail the advantages and limitations of asynchronous messaging architectures. The authors present practical advice on designing code that connects an application to a messaging system, and provide extensive information to help you determine when to send a message, how to route it to the proper destination, and how to monitor the health of a messaging system. If you want to know how to manage, monitor, and maintain a messaging system once it is in use, get this book.

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## Editorial Review

From the Back Cover

How to manage and monitor a messaging system once it's in use as part of the enterprise. What This Book Does Not CoverWe believe that any book sporting the word "enterprise" in the title is likely to fall into one of three categories. First, the book might attempt to cover the whole breadth of the subject matter but is forced to stop short of detailed guidance on how to implement actual solutions. Second, the book might provide specific hands-on guidance on the development of actual solutions but is forced to constrain the scope of the subject area it addresses. Third, the book might attempt to do both but is likely never to be finished or else to be published so late as to be irrelevant. We opted for the second choice and hopefully created a book that helps people create better integration solutions even though we had to limit the scope of the book. Topics that we would have loved to discuss but had to exclude in order not to fall into the category-three trap include security, complex data mapping, workflow, rule engines, scalability and robustness, and distributed transaction processing (XA, Tuxedo, and the like). We chose asynchronous messaging as the emphasis for this book because it is full of interesting design issues and trade-offs, and provides a clean abstraction from the many implementations provided by various integration vendors.This book is also not a tutorial on a specific messaging or middleware technology. To highlight the wide applicability of the concepts presented in this book, we included examples based on a number of different technologies, such as JMS, MSMQ, TIBCO, BizTalk, and XSL. However, we focus on the design decisions and trade-offs as opposed to the specifics of the tool. If you are interested in learning more about any of these specific technologies, please refer to one of the books referenced in the bibliography or to one of the many online resources.How This Book Is OrganizedAs the title suggests, the majority of this book consists of a collection of *patterns*. Patterns are a proven way to capture experts' knowledge in fields where there are no simple "one size fits all" answers, such as application architecture, object-oriented design, or integration solutions based on asynchronous messaging architectures.Each pattern poses a specific design problem, discusses the considerations surrounding the problem, and presents an elegant solution that balances the various *forces* or drivers. In most cases, the solution is not the first approach that comes to mind, but one that has evolved through actual use over time. As a result, each pattern incorporates the experience base that senior integration developers and architects have gained by repeatedly building solutions and learning from their mistakes. This implies that we did not "invent" the patterns in this book; patterns are not invented, but rather discovered and observed from actual practice in the field. Because patterns are harvested from practitioners' actual use, chances are that if you have been working with enterprise integration tools and asynchronous messaging architectures for some time, many of the patterns in this book will seem familiar to you. Yet, even if you already recognize most of these patterns, there is still value in reviewing this book. This book should validate your hard-earned understanding of how to use messaging while documenting details of the solutions and relationships between them of which you might not have been aware. It also gives you a consolidated reference to help you pass your knowledge effectively to less-experienced colleagues. Finally, the pattern names give you a common vocabulary to efficiently discuss integration design alternatives with your peers.The patterns in this book apply to a variety of programming languages and platforms. This means that a pattern is not a cut-and-paste snippet of code, but you have to *realize* a pattern to your specific environment. To make this translation easier, we added a variety of examples that show different ways of implementing patterns using popular technologies such as JMS, MSMQ, TIBCO, BizTalk, XSL, and others. We also included a few larger examples to demonstrate how multiple patterns play together to form a cohesive solution.Integrating multiple applications using an asynchronous messaging architecture

is a challenging and interesting field. We hope you enjoy reading this book as much as we did writing it.About the Cover PictureThe common theme for books in the *Martin Fowler Signature Series* is a picture of a bridge. In some sense we lucked out, because what theme would make a better match for a book on integration? For thousands of years, bridges have helped connect people from different shores, mountains, and sides of the road.We selected a picture of the Taiko-bashi Bridge at the Sumiyoshi-taisha Shrine in Osaka, Japan, for its simple elegance and beauty. As a Shinto shrine dedicated to the guardian deity for sailors, it was originally erected next to the water. Interestingly, land reclamation has pushed the water away so that the shrine today stands almost three miles inland. Some three million people visit this shrine at the beginning of a new year. *Gregor Hohpe*
*San Francisco, CaliforniaBobby Woolf*
*Raleigh, North Carolina* September 2003
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0321200683P10062003 Users Review**From reader reviews:**
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