

# advanced J2EE Platform Development

## Applying Integration Tier Patterns



- Introduction and description of the typical integration pattern
- A concrete, annotated example of an application architecture for integration enabling legacy systems
- Source integration with SOAP-based XML and HTTP components (both web services)
- Alternative legacy integration patterns (SOAP and RESTful) (community integration)



TORBJÖRN DAHLÉN • THORBÖRN FRITZJON

Java® 2 Platform, Enterprise Edition Series

# Advanced J2ee Platform Development Applying Integration Tier Patterns

**Brian Sam-Bodden, Christopher M Judd**



## **Advanced J2ee Platform Development Applying Integration Tier Patterns:**

**Advanced J2EE Platform Development** Torbjörn Dahlén,2004 *Advanced J2EE Platform Development* Torbjörn Dahlén,Thorbiörn Fritzon,2004 A proven Java TM based approach to standardizing and streamlining legacy migration This book focuses on the key challenges developers face when using the Java 2 platform Enterprise Edition J2EE to encapsulate legacy applications for delivery in a multi tier Internet environment Leading Sun architects Torbjörn Dahlén and Thorbiörn Fritzon show how to standardize encapsulation using an integration tier that shields the J2EE elements of an application from the properties and demands of its legacy elements Using this approach enterprises can promote reuse accelerate legacy migration projects and make the most of their COBOL mainframe and Java expertise Above all they can take portability beyond hardware and operating systems systematically migrating virtually any legacy system without extensive redesign or reprogramming Presents a pragmatic approach to domain modeling for legacy application migration Promotes reuse and portability through a standardized fine grained domain object model Shows how to streamline the transformation of domain models to working systems Introduces a proven pattern based J2EE application architecture for Internet enabling legacy systems Includes superior algorithms for object queries data cleansing and merging and artificial XA support **Advanced J2EE Platform Development** presents detailed examples and sample code including a start to finish case study that demonstrates integration between three different legacy systems *Forthcoming Books* Rose Army,2003-04 *The Publishers Weekly* ,2003 *The British National Bibliography* Arthur James Wells,2005 **Issues & Trends of Information Technology Management in Contemporary Organizations** Information Resources Management Association. International Conference,2002-01-01 As the field of information technology continues to grow and expand it impacts more and more organizations worldwide The leaders within these organizations are challenged on a continuous basis to develop and implement programs that successfully apply information technology applications This is a collection of unique perspectives on the issues surrounding IT in organizations and the ways in which these issues are addressed This valuable book is a compilation of the latest research in the area of IT utilization and management *Enterprise Java Development on a Budget* Brian Sam-Bodden,Christopher M Judd,2008-01-01 Open source has had a profound effect on the Java community Many Java open source projects have even become de facto standards The principal purpose of *Enterprise Java Development on a Budget* is to guide you through the development of a real enterprise Java application using nothing but open source Java tools projects and frameworks This book is organized by activities and by particular open source projects that can help you take on the challenges of building the different tiers of your applications The authors also present a realistic example application that covers most areas of enterprise application development You ll find information on how to use and configure JBoss Ant XDoclet Struts ArgoUML OJB Hibernate JUnit SWT JFace and others Not only will you learn how to use each individual tool but you ll also understand how to use them in synergy to create robust enterprise Java applications within your budget

Enterprise Java Development on a Budget combines coverage of best practices with information on the right open source Java tools and technologies all of which will help support your Java development budget and goals **Dr. Dobb's Journal**, 2002 **Books in Print Supplement**, 2002 *The Complete Book of Middleware* Judith M. Myerson, 2002-03-05 The challenges of designing building and maintaining large scale distributed enterprise systems are truly daunting Written for all IT professionals *The Complete Book of Middleware* will aid in resolving new business objectives new technologies and vendor disputes This book focuses on the essential principles and priorities of system design and emphasizes the new requirements brought forward by the rise of e commerce and distributed integrated systems This reference highlights the changes to middleware technologies and standards It offers a concise overview of middleware technology alternatives and distributed systems Many increasingly complex examples are incorporated throughout and the book concludes with guidelines on the practice of IT architecture Performance considerations such as caching and monitoring are reviewed and the appendix includes middleware resources and new modeling standards The scope includes traditional middleware and also next generation techniques that serve to glue disparate systems in the ever expanding world of distributed network systems Provided with concepts principles and alternatives discussed in *The Complete Book of Middleware* systems architects systems analysts systems designers systems developers and programmers can proceed with greater confidence in designing complex enterprise systems **Core J2EE Patterns (paperback)** Deepak Alur, Dan Malks, John Crupi, 2003 Appropriate for all intermediate to advanced courses in Java programming and program design This second edition of the industry s definitive J2EE patterns guide has been thoroughly updated to reflect the powerful new patterns and technologies available with J2EE 1.4 From start to finish leading consultants from the Sun Java Center identify and thoroughly describe today s most powerful J2EE patterns for building applications with superior performance scalability and robustness Along the way they share Sun s best practices for development with a wide range of J2EE technologies including Java Server Pages Servlets EJB and more They organize their proven design solutions by tier including expert techniques for the presentation business and integration tiers This second edition introduces new refactorings new patterns for using XML and constructing J2EE Web services and discussions of bad practices to avoid Finally the authors present an end to end multi tier case study covering every stage of enterprise development Includes forewords written by industry leaders Grady Booch and Martin Fowler *Computerworld*, 2003-11-10 For more than 40 years Computerworld has been the leading source of technology news and information for IT influencers worldwide Computerworld s award winning Web site Computerworld.com twice monthly publication focused conference series and custom research form the hub of the world s largest global IT media network *Computerworld*, 2004-12-06 For more than 40 years Computerworld has been the leading source of technology news and information for IT influencers worldwide Computerworld s award winning Web site Computerworld.com twice monthly publication focused conference series and custom research form the hub of the world s largest global IT media network

*IBM Systems Journal* International Business Machines Corporation,2001      *InfoWorld* ,2002-11-11 InfoWorld is targeted to Senior IT professionals Content is segmented into Channels and Topic Centers InfoWorld also celebrates people companies and projects      *MSDN Magazine* ,2003      **Business Today** ,2009      **Implementing SOA Using Java EE** Balepur Venkatanna Kumar,Prakash Narayan,Tony Ng,2010 The Practitioner s Guide to Implementing SOA with Java EE Technologies This book brings together all the practical insight you need to successfully architect enterprise solutions and implement them using SOA and Java EE technologies Writing for senior IT developers strategists and enterprise architects the authors cover everything from concepts to implementation requirements to tools The authors first review the Java EE platform s essential elements in the context of SOA and web services deployment and demonstrate how Java EE has evolved into the world s best open source solution for enterprise SOA After discussing standards such as SOAP WSDL and UDDI they walk through implementing each key aspect of SOA with Java EE Step by step you ll learn how to integrate service oriented web and business components of Java EE technologies with the help of process oriented standards such as BPEL CDL into a coherent tiered enterprise architecture that can deliver a full spectrum of business services Implementing SOA Using Java tm EE concludes with a section length case study that walks through analyzing a company s requirements creating an effective SOA architecture and building a concise proof of concept prototype with NetBeans IDE Coverage includes Using Java EE technologies to simplify SOA implementation Mastering messaging service descriptions registries orchestration choreography and other essential SOA concepts Building an advanced web services infrastructure for implementing SOA Using Java Persistence API to provide for persistence Getting started with Java Business Integration JBI the new open specification for delivering SOA Implementing SOA at the web and business tiers Developing configuring and deploying SOA systems with NetBeans IDE Constructing SOA systems with NetBeans SOA Pack

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## **Table of Contents Advanced J2ee Platform Development Applying Integration Tier Patterns**

1. Understanding the eBook Advanced J2ee Platform Development Applying Integration Tier Patterns
  - The Rise of Digital Reading Advanced J2ee Platform Development Applying Integration Tier Patterns
  - Advantages of eBooks Over Traditional Books
2. Identifying Advanced J2ee Platform Development Applying Integration Tier Patterns
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Advanced J2ee Platform Development Applying Integration Tier Patterns
  - User-Friendly Interface
4. Exploring eBook Recommendations from Advanced J2ee Platform Development Applying Integration Tier Patterns
  - Personalized Recommendations
  - Advanced J2ee Platform Development Applying Integration Tier Patterns User Reviews and Ratings
  - Advanced J2ee Platform Development Applying Integration Tier Patterns and Bestseller Lists
5. Accessing Advanced J2ee Platform Development Applying Integration Tier Patterns Free and Paid eBooks
  - Advanced J2ee Platform Development Applying Integration Tier Patterns Public Domain eBooks
  - Advanced J2ee Platform Development Applying Integration Tier Patterns eBook Subscription Services
  - Advanced J2ee Platform Development Applying Integration Tier Patterns Budget-Friendly Options
6. Navigating Advanced J2ee Platform Development Applying Integration Tier Patterns eBook Formats

- ePub, PDF, MOBI, and More
  - Advanced J2ee Platform Development Applying Integration Tier Patterns Compatibility with Devices
  - Advanced J2ee Platform Development Applying Integration Tier Patterns Enhanced eBook Features
7. Enhancing Your Reading Experience
    - Adjustable Fonts and Text Sizes of Advanced J2ee Platform Development Applying Integration Tier Patterns
    - Highlighting and Note-Taking Advanced J2ee Platform Development Applying Integration Tier Patterns
    - Interactive Elements Advanced J2ee Platform Development Applying Integration Tier Patterns
  8. Staying Engaged with Advanced J2ee Platform Development Applying Integration Tier Patterns
    - Joining Online Reading Communities
    - Participating in Virtual Book Clubs
    - Following Authors and Publishers Advanced J2ee Platform Development Applying Integration Tier Patterns
  9. Balancing eBooks and Physical Books Advanced J2ee Platform Development Applying Integration Tier Patterns
    - Benefits of a Digital Library
    - Creating a Diverse Reading Collection Advanced J2ee Platform Development Applying Integration Tier Patterns
  10. Overcoming Reading Challenges
    - Dealing with Digital Eye Strain
    - Minimizing Distractions
    - Managing Screen Time
  11. Cultivating a Reading Routine Advanced J2ee Platform Development Applying Integration Tier Patterns
    - Setting Reading Goals Advanced J2ee Platform Development Applying Integration Tier Patterns
    - Carving Out Dedicated Reading Time
  12. Sourcing Reliable Information of Advanced J2ee Platform Development Applying Integration Tier Patterns
    - Fact-Checking eBook Content of Advanced J2ee Platform Development Applying Integration Tier Patterns
    - Distinguishing Credible Sources
  13. Promoting Lifelong Learning
    - Utilizing eBooks for Skill Development
    - Exploring Educational eBooks
  14. Embracing eBook Trends
    - Integration of Multimedia Elements
    - Interactive and Gamified eBooks

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