



Applied SOA Patterns on the Oracle Platform

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Sergey Popov

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Applied Soa Patterns On The Oracle Platform

Thomas Erl



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Applied SOA Patterns on the Oracle Platform Sergey Popov, 2014-08-12 Applied SOA Patterns on the Oracle Platform is aimed at architects practicing SOA or traditional integration and also at technical team leaders implementing Oracle Fusion under SCRUM or WF methodology *Design Principles for Process-driven Architectures Using Oracle BPM and SOA Suite*

12c Matjaz B. Juric, Sven Bernhardt, Hajo Normann, Danilo Schmiedel, Guido Schmutz, Mark Simpson, Torsten Winterberg, 2015-06-29 This book is a design handbook and provides skills to successfully design implement and optimize business processes on top of SOA Starting with business process modeling it shows design principles to architect sound process architectures It presents best practices for modeling business processes using BPMN together with design principles for services and composite applications It provides detailed coverage of how to prepare business processes for execution An in depth explanation of human interactions is given and also principles and best practices for using rules Moving on Adaptive Case Management principles are explained along with the reach of business processes to mobile devices and ensuring multichannel interactions Business activity monitoring event driven architectures complex event processing in relation to business processes and enabling integration with events and IoT devices are explained The design principles and best practices are demonstrated in a practical way on a rental car use case **Oracle API Management 12c Implementation**

Luis Augusto Weir, Andrew Bell, Rolando Carrasco, Arturo Viveros, 2015-09-30 Learn how to successfully implement API management using Oracle s API Management Solution 12c About This Book Explore the key concepts goals and objectives of API Management and learn how to implement it using the Oracle API Management Solution Understand the concepts and objectives of the Application Service Governance ASG along with the governance framework that encompasses people processes and technology Get to grips with API Management readiness assessments gap analysis digital reference architecture and implementation roadmaps Who This Book Is For This book is for Enterprise Architects Solution Architects Technical Architects and SOA and API consultants who want to successfully implement API Management using the Oracle API Management Solution products What You Will Learn Understand how to manage a set of APIs Discover the differences and similarities between API Management and SOA Governance and where and how these two disciplines converge into Application Services Governance ASG Grasp information about ASG and how to define an ASG governance framework Understand the challenges for organizations looking to expose APIs to the external world Identify common scenarios and how to solve them Define an Oracle API management deployment topology Install and configure Oracle API Catalog OAC Oracle API Manager OAPIM and Oracle API Gateway OAG Learn about API subscriptions and API community management with the OAPIM portal Implement Oracle API Manager OAPIM including creation publishing management and deprecation of APIs In Detail Oracle SOA Governance is a comprehensive service orientated governance solution that is designed to make the transition to SOA easier API management is the discipline that governs the software development lifecycle of APIs It defines

the tools and processes needed to build publish and operate APIs including the management of the community of developers around it This book illustrates how to successfully implement API Management in your organization To achieve this the importance of defining an API management strategy and implementation roadmap so that capabilities are implemented in the right order and timeframes is described It starts by describing all of the fundamental concepts around API Management and related disciplines such as SOA Governance and DevOps in order to dispel the confusion surrounding these topics The book then takes you on the journey of implementing API Management using a realistic case study of an organization that needs an API Management solution You will start by identifying the key business drivers to implement APIs and then create an API Management strategy and a roadmap to realize this strategy You ll then go through a number of use cases each focused on addressing specific business requirements These will help you understand each of the Oracle API Management products how they fit into an overall architecture and how to implement them The book concludes by providing some tips and guidelines around defining a deployment topology for the Oracle API Management products and the steps to install them Style and approach This book is a comprehensive guide to successfully implementing a complete API Management solution from inception to implementation The initial chapters introduce you to Oracle SOA Governance and API Management and from there chapters are mainly hands on and provide a full step by step walkthrough of how to implement the products of the Oracle API management solution to address realistic use cases

Implementing Oracle Integration Cloud Service Robert van Molken, Phil Wilkins, 2017-01-20 Understand everything you need to know about Oracle s Integration Cloud Service and how to utilize it optimally for your business About This Book The only guide to Integration Cloud Service in the market Focused on practical action to deliver business value A professional s guide to an expensive product providing comprehensive training and showing how to extract real business value from the product Who This Book Is For This book is ideal for any IT professional working with ICS any Oracle application or cloud solution developer or analyst who wants to work with ICS to deliver business value What You Will Learn Use ICS to integrate different systems together without needing to be a developer Gain understanding of what a number of technologies and standards provide without needing to understand the fine details of those standards and technologies Understand the use of connectors that Oracle provide from technology based connections such as file and database connections to SaaS solutions ranging from Salesforce to Twitter Enrich data and extend SaaS integration to route to different instances Utilize a number of tools to help develop and check that your integrations work before connecting to live systems Introduce and explain integration concepts so that the integrations created are maintainable and sustainable for the longer term Provide details on how to keep up to date with the features that Oracle and partners provide in the future Get special connections developed to work with ICS In Detail Businesses are built on data and applications that access that data In modern businesses the same cloud based data stores and applications might be accessed by hundreds of different applications from thousands of different devices via APIs To make this happen APIs

must be wired together i.e. integrated Oracle Integration Cloud Service provides a complete method for integrating enterprise applications in the cloud Integration Cloud Service ICS provides a cloud hosted means to integrate systems together using a graphical means to define and represent integrations This book will be a comprehensive hands on guide to building successful high availability integrations on ICS This book sets out to demonstrate how ICS can be used to effectively implement integrations that work both in the cloud and on premise It starts with a fast practical introduction to what ICS can do for your business and then shows how ICS allows you to develop integrations not only quickly but in a way that means they are maintainable and extensible Gradually it moves into more advanced integrations showing how to achieve sophisticated results with ICS and work with external applications Finally the book shows you how to monitor cloud apps and go beyond ICS to build even more powerful integrated applications By the end of the book you will have the knowledge on how to use ICS to solve your own integration needs and harness the technologies in a maintainable and sustainable manner Style and approach This book will take a pragmatic approach and will be a business focused guide to delivering business value with ICS

Applied Architecture Patterns on the Microsoft Platform Richard Seroter, Ewan Fairweather, Rama Ramani, 2010-09-07 An in depth scenario driven approach to architecting systems using Microsoft technologies with this book and eBook

SOA Design Patterns Thomas Erl, 2008-12-31 In cooperation with experts and practitioners throughout the SOA community best selling author Thomas Erl brings together the de facto catalog of design patterns for SOA and service orientation More than three years in development and subjected to numerous industry reviews the 85 patterns in this full color book provide the most successful and proven design techniques to overcoming the most common and critical problems to achieving modern day SOA Through numerous examples individually documented pattern profiles and over 400 color illustrations this book provides in depth coverage of Patterns for the design implementation and governance of service inventories collections of services representing individual service portfolios that can be independently modeled designed and evolved Patterns specific to service level architecture which pertain to a wide range of design areas including contract design security legacy encapsulation reliability scalability and a variety of implementation and governance issues Service composition patterns that address the many aspects associated with combining services into aggregate distributed solutions including topics such as runtime messaging and message design inter service security controls and transformation Compound patterns such as Enterprise Service Bus and Orchestration and recommended pattern application sequences that establish foundational processes The book begins by establishing SOA types that are referenced throughout the patterns and then form the basis of a final chapter that discusses the architectural impact of service oriented computing in general These chapters bookend the pattern catalog to provide a clear link between SOA design patterns the strategic goals of service oriented computing different SOA types and the service orientation design paradigm This book series is further supported by a series of resources sites including soabooks.com soaspecs.com soapatterns.org soamag.com and soaposters.com

Semantic Enterprise Application Integration for Business Processes: Service-Oriented Frameworks Mentzas, Gregoris, Friesen, Andreas, 2009-09-30 This book provides methods that allow for access to corporate and customer data independent of where it resides Provided by publisher **Oracle BPM Suite 12c Modeling Patterns** Vivek Acharya, 2014-09-25 This book is an invaluable resource if you are an Enterprise architect solution architect developer process analyst or application functional and technical consultant who uses Business Process Management and BPMN to model and implement Enterprise IT applications SaaS and cloud applications **Process-Driven SOA** Carsten Hentrich, Uwe Zdun, 2016-04-19 Process Driven SOA Patterns for Aligning Business and IT supplies detailed guidance on how to design and build software architectures that follow the principles of business IT alignment It illustrates the design process using proven patterns that address complex business technical scenarios where integrated concepts of service oriented architecture SOA Business Process Management BPM and Event Driven Architecture EDA are required The book demonstrates that SOA is not limited to technical issues but instead is a holistic challenge where aspects of SOA EDA and BPM must be addressed together An ideal guide for SOA solution architects designers developers managers and students about to enter the field the book Provides an accessible introduction to basic and more advanced concepts in process driven SOA Illustrates how to manage the complexities of business aligned IT architectures with detailed examples and industry cases Outlines a step by step design process using proven patterns to address complex business technical scenarios Integrates SOA BPM and EDA into practical patterns promoting SOA 2.0 Describing how to synchronize parallel enterprise processes the authors explain how to cope with the architectural and design decisions you are likely to encounter when designing and implementing process driven SOA systems The decisions are described in the form of software patterns to provide you with a practical guideline for addressing key problems using time tested solutions *Advanced SOA Tools and Applications* Stanisław Ambroszkiewicz, Jerzy Brzeziński, Wojciech Cellary, Adam Grzech, Krzysztof Zieliński, 2013-10-28 This book presents advanced software development tools for construction deployment and governance of Service Oriented Architecture SOA applications Novel technical concepts and paradigms formulated during the research stage and during development of such tools are presented and illustrated by practical usage examples Hence this book will be of interest not only to theoreticians but also to engineers who cope with real life problems Additionally each chapter contains an overview of related work enabling comparison of the proposed concepts with existing solutions in various areas of the SOA development process This makes the book interesting also for students and scientists who investigate similar issues

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