

SOA approach to integration: XML, web services, ESB, and BPEL in real-world SOA projects /

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Packt Pub.,

2007

Monografía

This book shows how to define SOA integration architecture, what technologies to use, and how to best integrate existing applications with modern e-business solutions. The book also shows how to develop web services, how to process and manage XML documents from JEE and .NET platforms, and how to use ESBs and BPEL executable business processes within SOA architecture. This book is for architects and senior developers who are responsible for setting up SOA for integration for applications within the enterprise (intra-enterprise integration) and applications across enterprises (inter-enterprise integration or B2B)

Título: SOA approach to integration XML, web services, ESB, and BPEL in real-world SOA projects Matjaz B.

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Editorial: Birmingham, U.K. Packt Pub. 2007

Descripción física: 1 online resource (viii, 369 pages) illustrations

Mención de serie: From technologies to solutions

Nota general: Title from title screen Includes index

Contenido: Cover; Table of Contents; Preface; Chapter 1: Integration Architecture, Principles, and Patterns; Integration Challenges; Current Situation; Effective Information Systems; Replacing Existing Applications; Requirements and Strategies; Single Data Input; Information Access with Low Latency; Importance of a Centrally Managed Integration Project; Responsibility to Define Integration Architecture; Responsibility to Select Integration Infrastructure and Technologies; Development and Maintenance of Integration Documentation; Integration

Architecture Steps and Approaches; Bottom-Up Approach Top-Down ApproachSound Integration Architecture Benefits; Types of Integration; Data-Level Integration; Application Integration; Business Process Integration; Presentation Integration; Business-to-Business Integration; Integration Infrastructure; Communication; Brokering and Routing; Transformation; Business Intelligence; Transactions; Security; Lifecycle; Naming; Scalability; Management; Rules; Integration Technologies; Database Access Technologies; Message-Oriented Middleware; Remote Procedure Calls; Transaction Processing Monitors; Object Request Brokers; Application Servers; Web Services Enterprise Service BusesThe Integration Process; Choosing the Steps and Defining the Milestones; Sound Practices; Iterative Development; Incremental Development; Prototyping; Reuse; Integration Process Activities and Phases; Integration Patterns; Summary; Chapter 2: Service and Process Oriented Architectures for Integration; Defining Service-Oriented Architectures; Why SOA in the Integration Space?; Islands in the Enterprise IT Landscape; The Integration Problem; Custom Integration Application and Its Issues; Inverted View: Reusable Services, Simple integration Processes Enter SOA: A Services-Based Integration ArchitectureConcepts and Principles of SOA: Paradigm Shift-from Self-Contained Applications towards Services -- Service Orientation: Component-Based Services; The Internet Simplifies Remote Services; Consuming Services; Introducing SOA Architecture; Service Abstractions; Service Invocation and Service Implementation; Process Engines; Messaging Abstractions; Synchronous and Asynchronous Messages; Service Registries; Quality of Service; Communication Infrastructure; What is a Bus?; XML and Web Services: SOA Foundation; Using XML in Middleware Middleware Mechanics for Services XML-Based Mechanism to ""Invoke"" Services; Services over the Web via SOAP; Web Services-Protocols for SOA; Technology Agnostic System-to-system Interaction; Service Description-Using WSDL; Discovering the Services-UDDI; Containers to Host Web Services; Standards Foundation; Application Platforms (JAVA EE) Hosting Web Services; Using Services to Compose Business Processes; Simple Integration Applications; Simple Business Processes-Orchestrating the Services; Choreography-Multi-Party Business Process; **SOA Security and Transactions**

Lengua: English

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ISBN: 9781847190116 electronic bk.) 1847190111 electronic bk.) 1904811175 9781904811176 1281236802 9781281236807 9786611236809 6611236805 9781904811176

Materia: Business enterprises- Computer networks- Management Information technology- Management Computer network architectures Entreprises- Réseaux d'ordinateurs- Gestion Technologie de l'information- Gestion Réseaux d'ordinateurs- Architectures COMPUTERS- Networking- General. Business enterprises- Computer networks- Management. Information technology- Management. Computer network architectures. XML (Document markup language) Web services. Business enterprises- Computer networks- Management. Computer network architectures. Information technology- Management.

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Enlace a formato físico adicional: Print version SOA approach to integration. Birmingham, U.K.: Packt Pub., 2007 9781904811176 1904811175 (OCoLC)276996902

Punto acceso adicional serie-Título: From technologies to solutions

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