

Business-to-Business Integration Using MQSeries and MQSI Patterns for e-business Series

Select topologies and mappings to build
B2B integration e-business solutions

Gain insight into available
products and design guidelines

Learn from an
implementation example



Indran Naick
Mark Berkhoff
Daniel Verdugo Bosnich

Business To Business Integration Using Mqseries And Mqsi Patterns For E Business Series Ibm Redbooks

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Business-To-Business Integration Using Mqseries and Mqsi, Patterns for E-Business Series IBM Redbooks, 2000-12-01

Patterns for e business are a group of proven reusable assets that can help speed the process of developing applications. The patterns discussed in this book, Business to Business integration patterns two and three, form the basis for many of the more complex and functional B2B patterns. It is relevant to all enterprises dealing with partner integration issues over the Internet. Application topology 2 describes a scenario in which messages are being passed between two enterprise applications and no routing is performed. Topology 3 extends topology 2 to describe the scenario where routing is required for multiple cross enterprise applications to communicate. Part 1 of the redbook takes you through the process of choosing an application topology and a runtime topology. It gives you possible product mappings for implementation of the chosen runtime topology and introduces all the topologies even though only two of the patterns are covered in this book. Part 2 is a set of guidelines based on topologies 2 and 3 for building your e business application. It includes information on application design, technology options, application development, performance, and security. Part 3 takes you through a working example showing the simple implementation of an integration pattern using application topology 3. Page 4 of cover

Patterns Mark Endrei, Gianluigi Alari, Anil Ambati, Pål Krogdahl, Charles Martin, 2004. The IBM Patterns for e business are a group of proven reusable assets. They increase the speed of developing and deploying Web applications. This IBM Redbooks publication focuses on advanced application integration using the Process focused Application Integration Serial Process Application pattern for intra enterprise and the Extended Enterprise Exposed Serial Process Application pattern for inter enterprise. This book consists of four parts. Part 1 guides you through the process of selecting an Application and Runtime pattern. Then it helps you to identify platform specific Product mappings based upon the selected Runtime pattern. Part 2 presents guidelines to apply the Patterns approach to a sample business scenario and to select application integration technologies. Part 3 provides detailed design development and runtime guidelines for intra enterprise integration solutions. Part 4 provides design guidelines for inter enterprise integration solutions. Both Parts 3 and 4 provide examples to show you how to use IBM WebSphere InterChange Server V4.2.1.5 and IBM WebSphere Application Server V5.1 with Web services for the respective solutions. Please note that the additional material referenced in the text is not available from IBM.

Self-Service Applications Using IBM WebSphere V5.0 and IBM MQSeries Integrator Peter Kovari, Kadhar Masthan, Carla Sadtler, Jan Smolenski, Paul Solano, Jose Spagnuolo, Frank Strecker, Raghu Varadan, 2003. This IBM Redbooks publication introduces the Router and Decomposition application patterns for Self Service e business applications. The book discusses the messaging and transactional capabilities of an application. This book is a valuable source for IT architects, IT specialists, application designers, application developers, system administrators, and consultants. Part 1, Patterns for e business, introduces the Patterns for e business concept, focusing particularly on the Self Service business pattern and the Router and Decomposition application patterns. Part 2, Guidelines

provides guidelines for messaging and transactional applications including application design and development and some of the non functional requirements for such applications including security and system management and performance In the Appendix you will find details on how to set up and configure both the development and runtime environments for the sample application discussed in this book Please note that the additional material referenced in the text is not available from IBM

End-to-end Integration with IBM Sterling B2B Integration and Managed File Transfer solutions James

Ballentine, Claudemir Braghirolli, Vasfi Gucer, Rahul Gupta, James B Herry, Richard Kinard, Gianluca Meloni, Bala Sivasubramanian, Eduardo Ribeiro de Souza, Frank Strecker, Gang Yin, IBM Redbooks, 2012-07-21 Across numerous vertical industries enterprises are challenged to improve processing efficiency as transactions flow from their business communities to their internal systems and vice versa simplify management and expansion of the external communities accommodate customer and supplier preferences govern the flow of information enforce policy and standards and protect sensitive information Throughout this process external partners must be on boarded and off boarded information must flow across multiple communications infrastructures and data must be mapped and transformed for consumption across multiple applications Some transactions require synchronous or real time processing while others are of a more periodic nature For some classes of customer or supplier the enterprise might prefer a locally managed on premise solution For some types of communities often small businesses an as a Service solution might be the best option Many large enterprises combine the on premise and as a Service approach to serve different categories of business partners customers or suppliers This IBM Redbooks publication focuses on solutions for end to end integration in complex value chains and presents several end to end common integration scenarios with IBM Sterling and IBM WebSphere portfolios We believe that this publication will be a reference for IT Specialists and IT Architects implementing an integration solution architecture involving IBM Sterling and IBM WebSphere portfolios *IBM MQ as a Service: A Practical Approach* Lohitashwa Thyagaraj, Cezar Eduardo Aranha, Kiran Darbha, Dirk Marski, Rob Nicholson, Jamie Squibb, David Ware, IBM Redbooks, 2016-02-16 This IBM Redpaper™ publication provides information about how to build deploy and use IBM MQ as a service The information in this paper includes the key factors that must be considered while planning the use of IBM MQ as a service Through descriptions and examples this paper explains how to apply as a service methodologies to an IBM MQ environment and describes techniques and preferred practices for integrating IBM MQ into a self service portal This paper explains how to create and use an IBM MQ as a service self service menu for a portal It includes examples that show how to use an IBM MQ as a service catalog This paper describes options and techniques for deploying IBM MQ as a service that is tailored to the specific enterprise messaging needs of an organization Although these techniques can be employed in a cloud environment they are equally applicable in an on premises enterprise data center This paper includes information about the various infrastructure options that can be selected when implementing IBM MQ as a service The information in this paper helps infrastructure

administrators to define services so that you can provision IBM MQ resources quickly The target audiences of this paper are developers infrastructure administrators and line of business LOB professionals who want to provision IBM MQ resources to be accessed as services in small medium large and complex implementations **Patterns**, 2006 End-to-end Integration with IBM Sterling B2B Integration and Managed File Transfer Solutions James Ballentine, Claudemir Braghirolli, Vasfi Gucer, Rahul Gupta, James Herry, Richard Kinard, Gianluca Meloni, Bala Sivasubramanian, Eduardo De Souza, Frank Strecker, Gang Yin, 2012 Across numerous vertical industries enterprises are challenged to improve processing efficiency as transactions flow from their business communities to their internal systems and vice versa simplify management and expansion of the external communities accommodate customer and supplier preferences govern the flow of information enforce policy and standards and protect sensitive information Throughout this process external partners must be on boarded and off boarded information must flow across multiple communications infrastructures and data must be mapped and transformed for consumption across multiple applications Some transactions require synchronous or real time processing while others are of a more periodic nature For some classes of customer or supplier the enterprise might prefer a locally managed on premise solution For some types of communities often small businesses an as a Service solution might be the best option Many large enterprises combine the on premise and as a Service approach to serve different categories of business partners customers or suppliers This IBM Redbooks publication focuses on solutions for end to end integration in complex value chains and presents several end to end common integration scenarios with IBM Sterling and IBM WebSphere portfolios We believe that this publication will be a reference for IT Specialists and IT Architects implementing an integration solution architecture involving IBM Sterling and IBM WebSphere portfolios Please note that the additional material referenced in the text is not available from IBM

An Architectural and Practical Guide to IBM Hybrid Integration Platform Carsten Börnert, Kim Clark, Shahir Daya, Matthieu Debeaux, Gerd Diederichs, Vasfi Gucer, Shamim Hossain, Gary Kean, Carlo Marcoli, Shohei Matsumoto, Amar Shah, Johan Thole, IBM Redbooks, 2017-01-12 In order to remain competitive in today's world companies need to be able to integrate internally and externally by connecting sensors customers and partners with the information in their systems of record In short they need to integrate with everything This IBM Redbooks publication describes how IBM Application Integration Suite and IBM Messaging portfolio can be used to satisfy the needs of core hybrid integration use cases accelerating companies in their digital transformation journey All concepts are explained within the context of these use cases Joining the API economy Improving productivity Refactoring for innovation The target audience for this book is cloud and integration architects and specialists who are implementing hybrid integration solutions

Systems of Insight for Digital Transformation: Using IBM Operational Decision Manager Advanced and Predictive Analytics Whei-Jen Chen, Rajeev Kamath, Alexander Kelly, Hector H. Diaz Lopez, Matthew Roberts, Yee Pin Yheng, IBM Redbooks, 2015-12-03 Systems of record SORs are engines that generates value for your business Systems of

engagement SOE are always evolving and generating new customer centric experiences and new opportunities to capitalize on the value in the systems of record The highest value is gained when systems of record and systems of engagement are brought together to deliver insight Systems of insight SOI monitor and analyze what is going on with various behaviors in the systems of engagement and information being stored or transacted in the systems of record SOIs seek new opportunities risks and operational behavior that needs to be reported or have action taken to optimize business outcomes Systems of insight are at the core of the Digital Experience which tries to derive insights from the enormous amount of data generated by automated processes and customer interactions Systems of Insight can also provide the ability to apply analytics and rules to real time data as it flows within throughout and beyond the enterprise applications databases mobile social Internet of Things to gain the wanted insight Deriving this insight is a key step toward being able to make the best decisions and take the most appropriate actions Examples of such actions are to improve the number of satisfied clients identify clients at risk of leaving and incentivize them to stay loyal identify patterns of risk or fraudulent behavior and take action to minimize it as early as possible and detect patterns of behavior in operational systems and transportation that lead to failures delays and maintenance and take early action to minimize risks and costs IBM Operational Decision Manager is a decision management platform that provides capabilities that support both event driven insight patterns and business rule driven scenarios It also can easily be used in combination with other IBM Analytics solutions as the detailed examples will show IBM Operational Decision Manager Advanced along with complementary IBM software offerings that also provide capability for systems of insight provides a way to deliver the greatest value to your customers and your business IBM Operational Decision Manager Advanced brings together data from different sources to recognize meaningful trends and patterns It empowers business users to define manage and automate repeatable operational decisions As a result organizations can create and shape customer centric business moments This IBM Redbooks publication explains the key concepts of systems of insight and how to implement a system of insight solution with examples It is intended for IT architects and professionals who are responsible for implementing a systems of insights solution requiring event based context pattern detection and deterministic decision services to enhance other analytics solution components with IBM Operational Decision Manager Advanced

IBM MQ V8 Features and Enhancements Rufus Credle,Carolyn Elkins,Peter Hayward,Valerie Lampkin,Matthew Leming,Jonatan Maya Sanchez,Mark Taylor,Mark Wilson,IBM Redbooks,2014-10-02 The power of IBM MQ is its flexibility combined with reliability scalability and security This flexibility provides a large number of design and implementation choices Making informed decisions from this range of choices can simplify the development of applications and the administration of an MQ messaging infrastructure Applications that access such an infrastructure can be developed using a wide range of programming paradigms and languages These applications can run within a substantial array of software and hardware environments Customers can use IBM MQ to integrate and extend the capabilities of existing and varied infrastructures in the information

technology IT system of a business IBM MQ V8 0 was released in June 2014 Before that release the product name was IBM WebSphere MQ This IBM Redbooks publication covers the core enhancements made in IBM MQ V8 and the concepts that must be understood A broad understanding of the product features is key to making informed design and implementation choices for both the infrastructure and the applications that access it Details of new areas of function for IBM MQ are introduced throughout this book such as the changes to security publish subscribe clusters and IBM System z exploitation This book is for individuals and organizations who make informed decisions about design and applications before implementing an IBM MQ infrastructure or begin development of an IBM MQ application *IBM WebSphere MQ V7.1 and V7.5 Features and Enhancements* Cezar Aranha,Craig Both,Barry Dearfield,Carolyn (Lyn) Elkins,Alexander Ross,Jamie Squibb,Mark Taylor,IBM Redbooks,2013-02-28 This IBM Redbooks publication is divided into four parts Part 1 introduces message oriented middleware and the WebSphere MQ product It explains how messaging technologies are implemented in WebSphere MQ and shows how to get started with configuring a WebSphere MQ environment This part briefly lists the new features of WebSphere MQ V7 1 and V7 5 Part 2 introduces the enhancements to WebSphere MQ in Version 7 Release 1 It provides a description of the new features their business value and usage examples It describes enhancements to WebSphere MQ for multiplatforms and z OS Examples of features that are discussed in this part include multiple installation support for multiplatforms enhanced security with channel authentication records enhanced clustering improved availability and scalability on z OS and more Part 3 introduces the enhancements to WebSphere MQ in Version 7 Release 5 for multiplatforms It provides a description of the new features their business value and usage examples Examples of enhancements that are discussed in this part include new installation options such as the bundling of WebSphere MQ Advanced Message Security and WebSphere MQ Managed File Transfer Part 4 contains practical scenarios that demonstrate how the new features and enhancements work and how to use them In summary the introduction gives a broad understanding of messaging technologies and WebSphere MQ It helps you understand the business value of WebSphere MQ It provides introductory information to help you get started with WebSphere MQ No previous knowledge of the product and messaging technologies is assumed The remaining parts of this book discuss enhancements to previous versions of WebSphere MQ The information helps you understand the benefits of upgrading to WebSphere MQ V7 1 and V7 5 and how to implement the new functions Knowledge of WebSphere MQ V7 0 and earlier versions is assumed This book provides details about IBM WebSphere MQ product features and enhancements that are required for individuals and organizations to make informed application and design decisions prior to implementing a WebSphere MQ infrastructure or begin development of a WebSphere MQ application This publication is intended to be of use to a wide ranging audience **Accelerating Modernization with Agile Integration** Adeline SE Chun,Aiden Gallagher,Amar A Shah,Callum Jackson,Claudio Tagliabue,Iliya Dimitrov,James Blackburn,Joel Gomez,Kim Clark,Lee Gavin,Maria Menendez,Martin Evans,Mohammed

Alreedi,Murali Sitaraman,Nick Glowacki,Shishir Narain,Timothy Quigly,Tony Curcio,Ulas Cubuk,Vasfi Gucer,IBM Redbooks,2020-07-01 The organization pursuing digital transformation must embrace new ways to use and deploy integration technologies so they can move quickly in a manner appropriate to the goals of multicloud decentralization and microservices The integration layer must transform to allow organizations to move boldly in building new customer experiences rather than forcing models for architecture and development that pull away from maximizing the organization s productivity Many organizations have started embracing agile application techniques such as microservice architecture and are now seeing the benefits of that shift This approach complements and accelerates an enterprise s API strategy Businesses should also seek to use this approach to modernize their existing integration and messaging infrastructure to achieve more effective ways to manage and operate their integration services in their private or public cloud This IBM Redbooks publication explores the merits of what we refer to as agile integration a container based decentralized and microservice aligned approach for integration solutions that meets the demands of agility scalability and resilience required by digital transformation It also discusses how the IBM Cloud Pak for Integration marks a significant leap forward in integration technology by embracing both a cloud native approach and container technology to achieve the goals of agile integration The target audiences for this book are cloud integration architects IT specialists and application developers **Integrating the IBM MQ Appliance into your IBM MQ Infrastructure** Neil Casey,Andy Emmett,Rufus Russell,IBM Redbooks,2015-11-09 This IBM Redbooks publication describes the IBM MQ Appliance M2000 an application connectivity option that combines secure reliable IBM MQ messaging with the simplicity and low overall costs of a hardware appliance This book presents underlying concepts and practical advice for integrating the IBM MQ Appliance M2000 into an IBM MQ infrastructure Therefore it is aimed at enterprises that are considering a possible first use of IBM MQ and the IBM MQ Appliance M2000 and those that already identified the appliance as a logical addition to their messaging environment Details about new functionality and changes in approaches to application messaging are also described The authors goal is to help readers make informed design and implementation decisions so that the users can successfully integrate the IBM MQ Appliance M2000 into their environments A broad understanding of enterprise messaging is required to fully comprehend the details that are provided in this book Readers are assumed to have at least some familiarity and experience with complimentary IBM messaging products Implementing an Advanced Application Using Processes, Rules, Events, and Reports Ahmed Abdel-Gayed,Kulvir Singh Bhogal,Don Carr,Richard Davies,Aditya P Dutta,Marcelo Correia Lima,Agueda Martinez Hernandez Magro,Yuka Musashi,Michael Norris,Felix Pistorius,Martin Keen,IBM Redbooks,2012-10-12 In this IBM Redbooks publication we describe how to build an advanced business application from end to end We use a fictional scenario to define the application document the deployment methodology and confirm the roles needed to support its development and deployment Through step by step instructions you learn how to Define the project lifecycle using IBM Solution for Collaborative Lifecycle

Management Build a logical and physical data model in IBM InfoSphere Data Architect Confirm business rules and business events using IBM WebSphere Operational Decision Management Map a business process and mediation using IBM Business Process Manager Use IBM Cognos Business Intelligence to develop business insight In addition we articulate a testing strategy using IBM Rational Quality Manager and deployment options using IBM Workload Deployer Taken together this book provides comprehensive guidance for building and testing a solution using core IBM Rational Information Management WebSphere Cognos and Business Process Management software It seeks to demystify the notion that developing and deploying advanced solutions is taxing This book will appeal to IT architects and specialists who seek straightforward guidance on how to build comprehensive solutions They will be able to adapt these materials to kick start their own end to end projects

IBM WebSphere MQ V7.1 and V7.5 Features and Enhancements Cezar Aranha,Craig Both,Barry Dearfield,Alexander Ross,Jamie Squibb,Mark Taylor,Carolyn Elkins,2013 This IBM Redbooks publication is divided into four parts Part 1 introduces message oriented middleware and the WebSphere MQ product It explains how messaging technologies are implemented in WebSphere MQ and shows how to get started with configuring a WebSphere MQ environment This part briefly lists the new features of WebSphere MQ V7 1 and V7 5 Part 2 introduces the enhancements to WebSphere MQ in Version 7 Release 1 It provides a description of the new features their business value and usage examples It describes enhancements to WebSphere MQ for multiplatforms and z OS Examples of features that are discussed in this part include multiple installation support for multiplatforms enhanced security with channel authentication records enhanced clustering improved availability and scalability on z OS and more Part 3 introduces the enhancements to WebSphere MQ in Version 7 Release 5 for multiplatforms It provides a description of the new features their business value and usage examples Examples of enhancements that are discussed in this part include new installation options such as the bundling of WebSphere MQ Advanced Message Security and WebSphere MQ Managed File Transfer Part 4 contains practical scenarios that demonstrate how the new features and enhancements work and how to use them In summary the introduction gives a broad understanding of messaging technologies and WebSphere MQ It helps you understand the business value of WebSphere MQ It provides introductory information to help you get started with WebSphere MQ No previous knowledge of the product and messaging technologies is assumed The remaining parts of this book discuss enhancements to previous versions of WebSphere MQ The information helps you understand the benefits of upgrading to WebSphere MQ V7 1 and V7 5 and how to implement the new functions Knowledge of WebSphere MQ V7 0 and earlier versions is assumed This book provides details about IBM WebSphere MQ product features and enhancements that are required for individuals and organizations to make informed application and design decisions prior to implementing a WebSphere MQ infrastructure or begin development of a WebSphere MQ application This publication is intended to be of use to a wide ranging audience

Enabling IBM MQ Messaging with the IBM MQ Appliance Neil Casey,Andy Emmett,Rufus Russell,IBM

Redbooks,2015-11-09 This IBM Redbooks Solution Guide describes the IBM MQ Appliance M2000 an application connectivity option that combines secure reliable IBM MQ messaging with the simplicity and low overall costs of a hardware appliance The concept behind the IBM MQ Appliance M2000 is simple Combine the customer proven scalability and security of IBM MQ messaging software with the simplicity ease of use and low total costs of a hardware appliance Enterprises have long used IBM MQ messaging to integrate applications systems and services reliably and securely Now with the IBM MQ Appliance M2000 IBM adds a state of the art hardware option that is fast to deploy and uses fewer administrative and infrastructure resources than running multiple messaging servers Messaging servers are only part of the cost of messaging integration There also is the expense of configuring and maintaining the servers and software and for many enterprises the challenge of extending the infrastructure to multiple far flung geographic locations Also by its nature messaging infrastructure must be highly available and responsive to enormous fluctuations in demand Therefore the industry needs a new approach to application connectivity one that is fast and easy to deploy simple to maintain reliably secure and cost effective With the IBM MQ Appliance M2000 IBM offers the messaging performance of IBM MQ with the convenience and costs savings of a robust physical component This Solution Guide is intended for enterprises that are considering a possible first use of IBM MQ and the IBM MQ Appliance M2000 and those that already identified the appliance as a logical addition to their messaging environment

IMS Integration and Connectivity Across the Enterprise Paolo Bruni,Jenny Hung,Knut Kubein,Evgeni Liakhovich,Geoff Nicholls,Gary Wicks,2013 This IBM Redbooks publication gives a broad understanding of IBM IMS integration and connectivity solutions to access applications and data stores across your enterprise architecture As an application developer architect systems integrator or systems programmer there is important information that is available in this book that pertains to your responsibilities to continue to include the proven performance data integrity and workload distribution that is available from IMS in to selected projects that are related to your entire enterprise This book updates and adds to the information in the following IBM Redbooks publications IMS e business Connectors A Guide to IMS Connectivity SG24 6514 IMS Connectivity in an On Demand Environment A Practical Guide to IMS Connectivity SG24 6794 Powering SOA Solutions with IMS SG24 7662 IBM IMS Version 12 Technical Overview SG24 7972 IMS 12 The IMS Catalog REDP 4812 Rethink Your Mainframe Applications Reasons and Approaches for Extension Transformation and Growth REDP 4938 Please note that the additional material referenced in the text is not available from IBM *Migration to WebSphere Business Integration Message Broker* ,2004

Creating Composite Application Pattern Models for IBM PureApplication System Prashanth Bhat,Julian Foster,Mahmoud Galal,Lei He,Andre Tost,Yue Wang,IBM Redbooks,2013-08-22 This IBM Redbooks publication describes how IBM PureApplication™ System supports the creation of virtual systems and virtual applications PureApplication System does so using a pattern model that enables you to take advantage of predefined pre configured and proven middleware topologies and deployments This book also presents an abstraction level that focuses on

functional capabilities and applications completely encapsulating the underlying middleware It describes in detail the model and the associated frameworks in PureApplication System as well as a methodology and approach toward designing and implementing a custom pattern model This book shows concrete implementation examples that you can use when creating your own pattern model paired with a collection of leading practices This IBM Redbooks publication gives critical guidance to and serves as a reference for independent software vendors ISVs who want to create patterns for their packaged applications on PureApplication System Clients who want to extend and enhance their existing patterns can also use this book *IBM MQ V8 Features and Enhancements* Rufus Credle, Carolyn Elkins, Peter Hayward, Valerie Lampkin, Matthew Leming, Jonatan Sanchez, Mark Taylor, Mark Wilson, 2014 The power of IBM MQ is its flexibility combined with reliability scalability and security This flexibility provides a large number of design and implementation choices Making informed decisions from this range of choices can simplify the development of applications and the administration of an MQ messaging infrastructure Applications that access such an infrastructure can be developed using a wide range of programming paradigms and languages These applications can run within a substantial array of software and hardware environments Customers can use IBM MQ to integrate and extend the capabilities of existing and varied infrastructures in the information technology IT system of a business IBM MQ V8 0 was released in June 2014 Before that release the product name was IBM WebSphere MQ This IBM Redbooks publication covers the core enhancements made in IBM MQ V8 and the concepts that must be understood A broad understanding of the product features is key to making informed design and implementation choices for both the infrastructure and the applications that access it Details of new areas of function for IBM MQ are introduced throughout this book such as the changes to security publish subscribe clusters and IBM System z exploitation This book is for individuals and organizations who make informed decisions about design and applications before implementing an IBM MQ infrastructure or begin development of an IBM MQ application

Uncover the mysteries within Explore with is enigmatic creation, Discover the Intrigue in **Business To Business Integration Using Mqseries And Mqsi Patterns For E Business Series Ibm Redbooks** . This downloadable ebook, shrouded in suspense, is available in a PDF format (PDF Size: *). Dive into a world of uncertainty and anticipation. Download now to unravel the secrets hidden within the pages.

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**Business To Business Integration Using Mqseries And Mqsi Patterns For E Business Series Ibm Redbooks
Introduction**

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