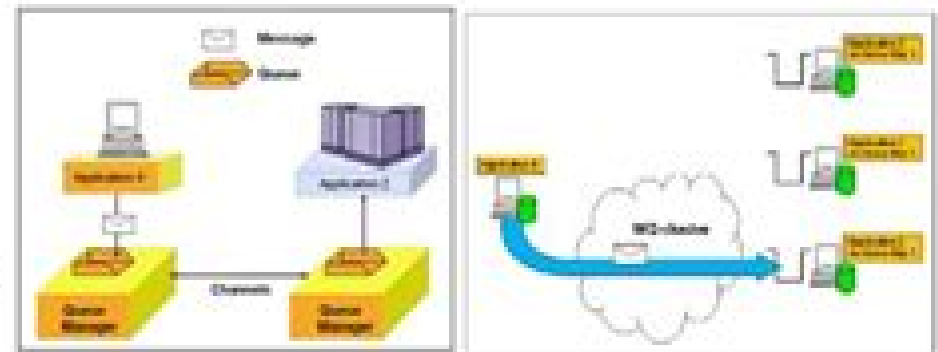


# Integration Technologies

- ▶ **Messaging systems**
  - ▶ IBM MQ Series, Tibco Rendezvous
- ▶ **Integration brokers / servers**
  - ▶ IBM Integration bus (earlier WebSphere integration broker)
- ▶ **Application Servers**
  - ▶ IBM WebSphere, Oracle WebLogic (J2EE)
- ▶ **Packaged Applications**
  - ▶ SAP, Oracle PeopleSoft, etc.
- ▶ **Data Integration**
  - ▶ Informatics, Teradata, etc.
- ▶ **B2B**
  - ▶ EDI, ebXML solutions, etc.



IBM WebSphere MQ. Source:

<http://www.redbooks.ibm.com/technotes/tips0925.pdf>



Webmethods integration platform

Source:

<http://www.softwareag.com/corporate/products/hmd/integration/overview/default.asp>

# Ibm Integration Bus Redbook

**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**

## **Ibm Integration Bus Redbook:**

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

**Hybrid Cloud Event Integration: Integrate Your Enterprise and Cloud with Bluemix Integration Services** Jesse Aulsebrook, Richard Scott Balson, Maxime Cenatiempo, Vasfi Gucer, Shamim Hossain, Muhammad Atif Mehmood, Raj Mehra, Duy Nguyen, Banchara Setthanan, Amar Shah, IBM Redbooks, 2016-02-18 The event centric hybrid cloud integration revolves around applications running based on events or messages The new event centric approach to hybrid cloud aims to simplify the task of managing these messages while increasing the overall reliability of the system Event centric applications work well in the cloud due to the varying intensity and frequency of events These fluctuations fit well into a cloud infrastructure that can dynamically scale to fit those needs An event centric approach cuts down on communication overhead for an application thus helping to speed up the development process IBM Hybrid Integration Services is a set of hybrid cloud capabilities in IBM Bluemix that allows businesses to create hybrid clouds by connecting their Bluemix environment to on premises systems at the application programming interface API data or event level In November 2015 the IBM International Technical Support Organization ITSO IBM Redbooks team published a Redbooks publication that covers hybrid cloud scenarios with Bluemix for API and data integrations Hybrid Cloud Data and API Integration Integrate Your Enterprise and Cloud with Bluemix Integration Services SG24 8277 and can be found at the following website <http://www.redbooks.ibm.com/Redbooks.nsf/RedbookAbstracts/sg248277.html> Open Hybrid Cloud Event Integration Integrate Your Enterprise and Cloud with Bluemix Integration Services SG24 8281 is a companion book to SG24 8277 and focuses on event centric hybrid cloud integrations with Bluemix

Rapid Deployment of Integrated WebSphere Solutions in Your Cloud Barkana Emrah, Antonella Bertoletti, Stefano Bussaglia, Ernest Calalang, Sebastian Kapciak, Leonardo Olivera, Sergio Polastri, Fabio Silva, Margaret Ticknor, IBM Redbooks, 2014-12-16 This IBM Redbooks publication uses the same practical solution and is an extension to Creating Integrated WebSphere Solutions using Application Lifecycle Management SG24 8243 00 This paper demonstrates how to take an existing application that was built in a legacy environment and bring that application to IBM PureApplication Systems using preferred practices for

deployment and automation The process is illustrated using a business scenario This publication is intended for architects developers and administrators who want to know about the next generation of technology that modern IT organizations are moving rapidly towards Application integration and systems development      *Beyond Big Data* Martin Oberhofer,Eberhard Hechler,Ivan Milman,Scott Schumacher,Dan Wolfson,2015 Drive Powerful Business Value by Extending MDM to Social Mobile Local and Transactional Data Enterprises have long relied on Master Data Management MDM to improve customer related processes But MDM was designed primarily for structured data Today crucial information is increasingly captured in unstructured transactional and social formats from tweets and Facebook posts to call center transcripts Even with tools like Hadoop extracting usable insight is difficult often because it s so difficult to integrate new and legacy data sources In *Beyond Big Data* five of IBM s leading data management experts introduce powerful new ways to integrate social mobile location and traditional data Drawing on pioneering experience with IBM s enterprise customers they show how Social MDM can help you deepen relationships improve prospect targeting and fully engage customers through mobile channels Business leaders and practitioners will discover powerful new ways to combine social and master data to improve performance and uncover new opportunities Architects and other technical leaders will find a complete reference architecture in depth coverage of relevant technologies and use cases and domain specific best practices for their own projects Coverage Includes How Social MDM extends fundamental MDM concepts and techniques Architecting Social MDM components functions layers and interactions Identifying high value relationships person to product and person to organization Mapping Social MDM architecture to specific products and technologies Using Social MDM to create more compelling customer experiences Accelerating your transition to highly targeted contextual marketing Incorporating mobile data to improve employee productivity Avoiding privacy and ethical pitfalls throughout your ecosystem Previewing Semantic MDM and other emerging trends      *Executing SOA* Norbert Bieberstein,Robert Laird,Keith Jones,Tilak Mitra,2008-05-05 The Expert Practical Guide to Succeeding with SOA in the Enterprise In *Executing SOA* four experienced SOA implementers share realistic proven from the trenches guidance for successfully delivering on even the largest and most complex SOA initiative This book follows up where the authors best selling *Service Oriented Architecture Compass* left off showing how to overcome key obstacles to successful SOA implementation and identifying best practices for all facets of execution technical organizational and human Among the issues it addresses introducing a services discipline that supports collaboration and information process sharing integrating services with preexisting technology assets and strategies choosing the right roles for new tools shifting culture governance and architecture and bringing greater agility to the entire organizational lifecycle not just isolated projects *Executing SOA* is an indispensable resource for every enterprise architect technical manager and IT leader tasked with driving value from SOA in complex environments Coverage includes Implementing SOA governance that reflects the organization s strategic and business focus Running SOA projects successfully practical guidelines and proven methodologies around service modeling

and design Leveraging reusable assets making the most of your SOA repository Enabling the architect to choose the correct tools and products containing the features required to execute on the SOA method for service design and implementation Defining information services to get the right information to the right people at the right time Integrating SOA with Web 2 0 and other innovative products and solutions Providing highly usable human interfaces in SOA environments IBM Systems Journal International Business Machines Corporation,2007 *Application Development for IBM WebSphere Process Server 7 and Enterprise Service Bus 7* Salil Ahuja,Swami Chandrasekaran,2010-07-09 Build SOA based flexible economical and efficient applications for IBM WebSphere Process Server 7 and Enterprise Service Bus 7 with this book and eBook

**Service-Oriented Architecture** Eric A. Marks,Michael Bell,2008-11-03 Praise for Service Oriented Architecture This book provides a superb overview of the SOA topic Marks and Bell provide practical guidance across the entire SOA life cycle from business imperatives and motivations to the post deployment business and technical metrics to consider With this book Marks and Bell demonstrate a unique ability to take the complex dynamics of SOA and through an eloquent set of metaphors models and principles provide an understandable and insightful how to manual for both technical and business executives This will become a required handbook for any organization implementing SOA Dan Bertrand Enterprise Technology Officer EDS Fellow EDS Corporation A fundamental breakthrough in the business and technology perspectives of SOA this book belongs in every software developer architect and IT executive library Marks and Bell demonstrate a creative and practical approach to building complex service oriented systems I especially liked the hands on perspective brought to multiple aspects of SOA A must have guide in the technology turbulence of the future Ariel Aloni Chief Technology Officer SunGard Data Management Solutions This outstanding text gets straight to the heart of the matter cutting through the hyperbole and discussing how to drive real business value through SOA It will certainly impact my behavior our governance models and subsequently the successful business outcomes we derive as we continue to embrace SOA A must read for battle scarred SOA veterans and fledgling architects alike Christopher Crowhurst Vice President and Chief Architect Thomson Learning Too often SOA has been perceived as all about the technology standards technology stacks operational monitoring and the like In this book Marks and Bell expand beyond the technology to provide a refreshing business driven perspective to SOA connecting the dots between business requirements architecture and development and operations and overlaying these perspectives with tried and true governance techniques to keep SOA initiatives on track A must read for those leading the charge to adopt SOA within their enterprise Brent Carlson Chief Technology Officer LogicLibrary and coauthor of San Francisco Design Patterns Blueprints for Business Software Marks and Bell have captured a wealth of practical experience and lessons learned in what has become the hottest topic in software development In this book they explain in detail what works and what does not from procedural issues to technical challenges This book is an invaluable reference for organizations seeking the benefits of SOAs Dr Jeffrey S Poulin System Architect Lockheed Martin and author of Measuring

Software Reuse Principles Practices and Economic Models One of the last things companies often consider when implementing a business solution such as SOA is the impact on people Marks and Bell provide an in depth look at what has to change from a process standpoint to make any SOA implementation a success A great read for those considering to embark on an enterprise SOA and looking for the right mix of people process and products Alan Himler Vice President of Product Management and Marketing LogicLibrary SOA is a complex topic and a complex organizational goal Service Oriented Architecture A Planning and Implementation Guide for Business and Technology shows you how to plan implement and achieve SOA value through its prescriptive approach joining the business and strategic perspective to the technical and architectural perspective Applicable to all industries technology platforms and operating environments this innovative book provides you with the essential strategies to drive greater value from your SOA and realize your business goals **Parallel**

**Processing and Applied Mathematics** Roman Wyrzykowski, 2008-05-26 This book constitutes the thoroughly refereed post conference proceedings of the 7th International Conference on Parallel Processing and Applied Mathematics PPAM 2007 held in Gdansk Poland in September 2007 The 63 revised full papers of the main conference presented together with 85 revised workshop papers were carefully reviewed and selected from over 250 initial submissions The papers are organized in topical sections on parallel distributed architectures and mobile computing numerical algorithms and parallel numerics parallel and distributed non numerical algorithms environments and tools for as well as applications of parallel distributed grid computing evolutionary computing meta heuristics and neural networks The volume proceeds with the outcome of 11 workshops and minisymposia dealing with novel data formats and algorithms for dense linear algebra computations combinatorial tools for parallel sparse matrix computations grid applications and middleware large scale computations on grids models algorithms and methodologies for grid enabled computing environments scheduling for parallel computing language based parallel programming models performance evaluation of parallel applications on large scale systems parallel computational biology high performance computing for engineering applications and the minisymposium on interval analysis

**Agency Red Book** , 1998-07 WebSphere Business Integration Primer Vinod Jessani, Ashok Iyengar, Michele Chilanti, 2007-12-27 Introductory Guide to WebSphere Business Integration from IBM Using WebSphere Business Integration WBI technology you can build an enterprise wide Business Integration BI infrastructure that makes it easier to connect any business resources and functions so you can adapt more quickly to the demands of customers and partners Now there s an introductory guide to creating standards based process and data integration solutions with WBI WebSphere Business Integration Primer thoroughly explains Service Component Architecture SCA basic business processes and complex long running business flows and guides you to choose the right process integration architecture for your requirements Next it introduces the key components of a WBI solution and shows how to make them work together rapidly and efficiently This book will help developers technical professionals or managers understand today s key BI issues and technologies and

streamline business processes by combining BI with Service Oriented Architecture SOA Coverage includes Linking BI business process management BPM and SOA BI scenarios architecture patterns and the IBM Business Object Framework Business orchestration utilizing WS BPEL and other industry standards BI development with WebSphere Integration Developer WID and the SCA programming model WebSphere Process Server WPS a runtime for service oriented applications Defining business maps rules business state machines and human tasks Managing BI services security auditing and more Integrating third party and legacy systems with WebSphere adapters Utilizing WebSphere Business Modeler and WebSphere Business Monitor Using WebSphere Enterprise Service Bus WESB to integrate services

The Art of Enterprise Information Architecture Mario Godinez,Eberhard Hechler,Klaus Koenig,Steve Lockwood,Martin Oberhofer,Michael Schroeck,2010-04-01 Architecture for the Intelligent Enterprise Powerful New Ways to Maximize the Real time Value of Information Tomorrow s winning Intelligent Enterprises will bring together far more diverse sources of data analyze it in more powerful ways and deliver immediate insight to decision makers throughout the organization Today however most companies fail to apply the information they already have while struggling with the complexity and costs of their existing information environments In this book a team of IBM s leading information management experts guide you on a journey that will take you from where you are today toward becoming an Intelligent Enterprise Drawing on their extensive experience working with enterprise clients the authors present a new information centric approach to architecture and powerful new models that will benefit any organization Using these strategies and models companies can systematically unlock the business value of information by delivering actionable real time information in context to enable better decision making throughout the enterprise from the shop floor to the top floor Coverage Includes Highlighting the importance of Dynamic Warehousing Defining your Enterprise Information Architecture from conceptual logical component and operational views Using information architecture principles to integrate and rationalize your IT investments from Cloud Computing to Information Service Lifecycle Management Applying enterprise Master Data Management MDM to bolster business functions ranging from compliance and risk management to marketing and product management Implementing more effective business intelligence and business performance optimization governance and security systems and processes Understanding Information as a Service and Info 2 0 the information delivery side of Web 2 0

*Prozessintegration mit SAP XI 3.0 in der Energiewirtschaft: Analyse und Bewertung von SAP XI 3.0 anhand des Lieferantenwechselprozess* Oliver Budde,2015 Die Beschleunigung im Gesch ftsleben erfordert dass IV Systeme in Bezug auf Flexibilit t und Interoperabilit t zunehmend leistungsf higer werden Im besonderen Ma e kann man diese Entwicklungen auch in der Energiewirtschaft beobachten In diesem Wirtschaftssektor haben sich die Unternehmensprozesse aufgrund der Liberalisierung des Energiemarktes seit 1998 stark ver ndert Die integrierten Energieversorger die bisher die gesamte Wertsch pfungskette der Energieversorgung abdeckten beginnen sich zu entflechten und auf bestimmte Stufen der Wertsch pfungskette zu konzentrieren Hieraus entsteht ein Koordinationsbedarf

zwischen den durch diese Entwicklung neu entstandenen Akteuren entlang der Wertschöpfungskette Bisherige Ansätze die das Ziel einer inner oder zwischenbetrieblichen Anwendungsintegration EAI haben nur selten den gewünschten Erfolg erbracht da sie die vorgenannten Anforderungen nach Flexibilität und Interoperabilität nur unzureichend unterstützen konnten In dieser Arbeit wird gezeigt wie ein serviceorientierter Ansatz SOA am Beispiel von SAP XI 3.0 helfen kann die Herausforderungen zu bewältigen

**Semantic Web Services** Dieter Fensel, Federico Michele Facca, Elena Simperl, Ioan Toma, 2011-04-28 A paradigm shift is taking place in computer science one generation ago we learned to abstract from hardware to software now we are abstracting from software to serviceware implemented through service oriented computing Yet ensuring interoperability in open heterogeneous and dynamically changing environments such as the Internet remains a major challenge for actual machine to machine integration Usually significant problems in aligning data processes and protocols appear as soon as a specific piece of functionality is used within a different application context The Semantic Web Services SWS approach is about describing services with metadata on the basis of domain ontologies as a means to enable their automatic location execution combination and use Fensel and his coauthors provide a comprehensive overview of SWS in line with actual industrial practice They introduce the main sociotechnological components that ground the SWS vision like Web Science Service Science and service oriented architectures and several approaches that realize it e.g. the Web Service Modeling Framework OWL-S and RESTful services The real world relevance is emphasized through a series of case studies from large scale R&D projects and a business oriented proposition from the SWS technology provider Seekda Each chapter of the book is structured according to a predefined template covering both theoretical and practical aspects and including walk through examples and hands on exercises Additional learning material is available on the book website [www.swsbook.org](http://www.swsbook.org) With its additional features the book is ideally suited as the basis for courses or self study in this field and it may also serve as a reference for researchers looking for a state of the art overview of formalisms methods tools and applications related to SWS

**Web Information Systems -- WISE 2004 Workshops** Christoph Bussler, 2004-11-18 This book constitutes the joint refereed proceedings of the two workshops held in conjunction with the 5th International Conference on Web Information Systems Engineering WISE 2004 in Brisbane Australia in November 2004 The 21 revised full papers and 5 revised short papers presented were carefully reviewed and selected for inclusion in the book The papers are organized in topical sections on ontologies for networked systems mobile learning fragmentation versus integration perspectives of the web information systems discipline and web services quality

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 *Creating Integrated IBM WebSphere Solutions using Application Lifecycle Management* Emrah Barkana,Antonella Bertoletti,Stefano Bussaglia,Ernest Calalang,Sebastian Kapciak,Leonardo Olivera,Sergio Polastri,Fabio Silva,IBM Redbooks,2014-12-21 This IBM Redbooks publication demonstrates through a practical solution and step by step implementation instructions how customers can use the IBM Rational Application Lifecycle Management ALM portfolio to build and manage an integrated IBM WebSphere Application Building a business application mobile and desktop that uses WebSphere Application Server IBM MQ IBM Integration Bus IIB Business Process Management BPM Operational Decision Management ODM and Mobile IBM Redpaper™ publication Rapid deployment of integrated WebSphere solutions in your cloud REDP 5132 is an extension to this IBM Redbooks publication Using the same practical solution covered in this Redbooks publication REDP 5132 demonstrates how the IBM PureApplication System is a logical extension versus a whole new world covering PureApplication Patterns and the new PureApplication as a service on Softlayer The intended audience for this book is architects developers administrators and DevOps personnel Information Systems Development George Angelos Papadopoulos,Wita Wojtkowski,Gregory Wojtkowski,Stanislaw Wrycza,Jože Zupancic,2009-09-23 This volume constitutes the published proceedings of the 17th International Conference on Information Systems Development They present the latest and greatest concepts approaches and techniques of systems development a notoriously transitional field **Research and Practical Issues of Enterprise Information Systems** A. Min Tjoa,Li Xu,Sohail Chaudhry,2007-11-14 The idea for this conference came from a meeting of the IFIP International Federation for Information Processing Technical Committee for Information Systems TC8 in Guimares Portugal in June 2005 Our goal is to build an IFIP forum among the different Information Systems Communities of TC8 dealing with the increasing important area of Enterprise Information Systems In this particular meeting the committee members intensively discussed the innovative and unique characteristics of Enterprise Information Systems as scientific sub discipline Hence in this meeting it was

decided by the TC8 members that the IFIP TC8 First International Conference on Research and Practical Issues of Enterprise Information Systems CONFENIS 2006 would be held in April 2006 in Vienna Austria Dr Li Xu USA and Dr A Min Tjoa IFIP TC8 were assigned to propose a concept for this conference in order to establish an IFIP platform for EIS researchers and practitioners in the field to share experience and discussing opportunities and challenges We are very pleased therefore to have this conference organised by the help of the Austrian Computer Society OCG OCG supports the idea of this conference due to the urgent need of research and dissemination of new techniques in this key area We received 180 papers from more than 30 countries for CONFENIS and the Program Committee eventually selected xx papers or extended abstracts making an acceptance rate of xx% of submitted papers Each paper was thoroughly reviewed by at least two qualified reviewers

**Computerworld** ,1987-08-03 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

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