

The IBM Insurance Application Architecture A Blueprint

Process-Centric Architecture for Enterprise Software Systems
 Reference Modeling for Business Systems Analysis
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The IBM Insurance Application
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MATIAS WILLIAMSON

Process-Centric Architecture for Enterprise Software Systems

5starcooks
 This IBM® Redpaper publication provides an update to the original description of IBM Reference Architecture for Genomics. This paper expands the reference architecture to cover all of the major vertical areas of healthcare and life sciences industries, such as genomics, imaging, and clinical and translational research. The architecture was renamed IBM Reference Architecture for High Performance Data and AI in Healthcare and Life Sciences to reflect the fact that it incorporates key building blocks for high-performance computing (HPC) and software-defined storage, and that it supports an expanding infrastructure of leading industry partners, platforms, and frameworks. The reference architecture defines a highly flexible, scalable, and cost-effective platform for accessing, managing, storing, sharing, integrating, and analyzing big data, which can be deployed on-premises, in the cloud, or as a hybrid of the two. IT organizations can use the reference architecture as a high-level guide for overcoming data management challenges and processing bottlenecks that are frequently encountered in personalized healthcare initiatives, and in compute-intensive and data-intensive biomedical workloads. This reference architecture also provides a framework and context for modern healthcare and life sciences institutions to adopt cutting-edge technologies, such as cognitive life sciences solutions, machine learning and deep learning, Spark for analytics, and cloud computing. To illustrate these points, this paper includes case studies describing how clients and IBM Business Partners alike used the reference architecture in the deployments of demanding infrastructures for precision medicine. This publication targets technical professionals (consultants, technical support staff, IT Architects, and IT Specialists) who are responsible for providing life sciences solutions and support.

[Reference Modeling for Business Systems Analysis](#) CRC Press
 This handbook is about methods, tools and examples of how to architect an enterprise through considering all life cycle aspects of Enterprise Entities. It is based on ISO15704:2000, or the GERAM Framework. A wide audience is addressed, as the handbook covers methods and tools necessary to design or redesign enterprises, as well as those necessary to structure the implementation into manageable projects.

IBM Reference Architecture for High Performance Data and AI in Healthcare and Life Sciences IBM Redbooks
 Getting Architecture Just Right: Detailed Practical Guidance for

Architecting Any Real-World IT Project To build effective architectures, software architects must tread a fine line between precision and ambiguity (a.k.a. big animal pictures). This is difficult but crucial: Failure to achieve this balance often leads directly to poor systems design and implementation. Now, pioneering IBM Distinguished Engineer and Chief Technology Officer Tilak Mitra offers the first complete guide to developing end-to-end solution architectures that are “just enough”—identifying and capturing the most important artifacts, without over-engineering or excessive documentation, and providing a practical approach to consistent and repeated success in defining software architectures. Practical Software Architecture provides detailed prescriptive and pragmatic guidance for architecting any real-world IT project, regardless of system, methodology, or environment. Mitra specifically identifies the artifacts that require emphasis and shows how to communicate evolving solutions with stakeholders, bridging the gap between architecture and implementation.

IBM Z Integration Guide for Hybrid Cloud Van Nostrand Reinhold Company

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.

Life Insurance and Related Applications Using the IBM Model 20 Springer

Welcome to the European Conference on Software Architecture (ECSA), which is the premier European software engineering conference. ECSA provides researchers and practitioners with a platform to present and discuss the most recent, innovative, and significant findings and experiences in the field of software architecture research and practice. The fourth edition of ECSA was built upon a history of a successful series of European workshops on software architecture held from 2004 through 2006 and a series of European software architecture conferences from 2007 through 2009. The last ECSA was merged with the 8th Working IEEE/IFIP Conference on Software Architecture (WICSA). Apart from the traditional technical program consisting of keynote talks, a main - search track, and a poster session, the scope of the

ECSA 2010 was broadened to incorporate other tracks such as an industry track, doctoral symposium track, and a tool demonstration track. In addition, we also offered several workshops and tutorials on diverse topics related to software architecture. We received more than 100 submissions in the three main categories: full research and experience papers, emerging research papers, and research challenges papers. The conference attracted papers (co-)authored by researchers, practitioners, and academics from 30 countries (Algeria, Australia, Austria, Belgium, Brazil, Canada, Chile, China, Colombia, Czech Republic, Denmark, Finland, France, Germany, Hong Kong, Iceland, India, Ireland, Israel, Italy, The Netherlands, Poland, Portugal, Romania, Spain, Sweden, Switzerland, Tunisia, United Kingdom, United States).

SAA Springer Science & Business Media

This IBM® Redbooks® publication introduces the IBM Reference Architecture for Genomics, IBM Power Systems™ edition on IBM POWER8®. It addresses topics such as why you would implement Life Sciences workloads on IBM POWER8, and shows how to use such solution to run Life Sciences workloads using IBM Platform™ Computing software to help set up the workloads. It also provides technical content to introduce the IBM POWER8 clustered solution for Life Sciences workloads. This book customizes and tests Life Sciences workloads with a combination of an IBM Platform Computing software solution stack, Open Stack, and third party applications. All of these applications use IBM POWER8, and IBM Spectrum Scale™ for a high performance file system. This book helps strengthen IBM Life Sciences solutions on IBM POWER8 with a well-defined and documented deployment model within an IBM Platform Computing and an IBM POWER8 clustered environment. This system provides clients in need of a modular, cost-effective, and robust solution with a planned foundation for future growth. This book highlights IBM POWER8 as a flexible infrastructure for clients looking to deploy life sciences workloads, and at the same time reduce capital expenditures, operational expenditures, and optimization of resources. This book helps answer clients' workload challenges in particular with Life Sciences applications, and provides expert-level documentation and how-to-skills to worldwide teams that provide Life Sciences solutions and support to give a broad understanding of a new architecture.

Enterprise, Business-Process and Information Systems Modeling Springer Science & Business Media

CAISE 2008 was the 20th in the series of International Conferences on Advanced Information System Engineering. This edition continued the success of previous conferences, a success largely due to that fact that, since its first edition, this series has evolved in parallel with the evolution of the importance of information systems in economic development. CAISE has been able to follow, and often to anticipate, important

changes that have occurred since 1978 when the first CAISE conference was organized by Arne Sølvberg and Janis Bubenko. In all these years, modern businesses and IT systems have been facing an ever more complex environment characterized by openness, variety and change. Furthermore, enterprises are experiencing ever more variety in their business in many dimensions. In the same way, the explosion of information technologies is overwhelming with a multitude of languages, platforms, devices, standards and products. Thus enterprises need to manage an environment to monitor the interplay of changes in the business processes, in information technologies, and at the ontological level, in order to achieve a sustainable development of their information systems. Enterprises must enter the era of sustainable information systems to face the important developmental challenges. During all these years, CAISE researchers have been challenged by all these changes, and the CAISE conferences provide a forum for presenting and debating important scientific results. In fact, CAISE is positioned at the core of these tumultuous processes, hosting new emerging ideas, fostering innovative processes of design and evaluation, developing new information technologies adapted to information systems, creating new kinds of models, but always being subject to rigorous scientific selection.

Systems Application Architecture IBM Redbooks

Object-Oriented Behavioral Specifications encourages builders of complex information systems to accelerate their move to using the approach of a scientific discipline in analysis rather than the approach of a craft. The focus is on understanding customers' needs and on precise specification of understanding gained through analysis. Specifications must bridge any gaps in understanding about business rules among customers, Subject Matter Experts, and 'computer people', must inform decisions about reuse of software and systems, and must enable review of semantics over time. Specifications need to describe semantics rather than syntax, and to do that in an abstract and precise manner, in order to create software systems that satisfy business rules. The papers in this book show various ways of designing elegant and clear specifications which are reusable, lead to savings of intellectual effort, time, and money, and which contribute to the reliability of software and systems. Object-Oriented Behavioral Specifications offers a fresh treatment of the object-oriented paradigm by examining the limitations of traditional OO methodologies and by describing the significance of competing trends in OO modeling. The book builds on four years of successful OOPSLA workshops (1991-1995) on behavior semantics. This book deals with precise specifications of 'what' is accomplished by the business and 'what' is to be done by a system. The book includes descriptions of successful use of abstract and precise specification in industry. It draws on the experience of experts from industrial and academic settings and benefits from international participation. Collective behavior, neglected in some treatment of the OO paradigm, is addressed explicitly in this book. The book does not take 'reuse' of specifications or software for granted, but furnishes a foundation for taking as rigorous an approach to reuse decisions as to precise specifications in original developments.

IBM Reference Architecture for Genomics, Power Systems Edition Springer Science & Business Media

"This book provides insights into state-of-the-art modeling languages and methods used for reference modeling. A reference model provides a blueprint for information systems development and analysis. Well-established reference models for industrial, retail and other industries are described"--Provided by publisher.

IBM Systems Application Architecture Elsevier

This book offers a broad perspective on issues relating to the sourcing of systems and business processes in a national and global context, examining the client's and the vendor's involvement in sourcing relationships by putting the emphasis on

the capabilities that each side should develop as a result of their interactions with each other.

How to Use IBM Cloud Object Storage When Building and Operating Cloud Native Applications Springer Science & Business Media

Build SOA-based flexible, economical, and efficient applications for IBM WebSphere Process Server 7 and Enterprise Service Bus 7 with this book and eBook.

Object-Oriented Behavioral Specifications IBM Redbooks

This book constitutes the thoroughly refereed post-workshop proceedings of eight international workshops held in Ulm, Germany, in conjunction with the 7th International Conference on Business Process Management, BPM 2009, in September 2009. The eight workshops were on Empirical Research in Business Process Management (ER-BPM 2009), Reference Modeling (RefMod 2009), Business Process Design (BPD 2009), Business Process Intelligence (BPI 2009), Collaborative Business Processes (CBP 2009), Process-Oriented Information Systems in Healthcare (ProHealth 2009), Business Process Management and Social Software (BPMS2 2009), Event-Driven Business Process Management (edBPM 2009). The 67 revised full papers presented were carefully reviewed and selected from numerous submissions.

Handbook on Architectures of Information Systems Prentice Hall

This IBM® Redpaper™ publication presents a series of tutorials for cloud native developers just getting started with IBM Cloud™ and IBM Cloud Object Storage. Within the context of a car insurance application, this paper presents an introductory series of linked modules that allow developers unfamiliar with either IBM Cloud or cloud native development to get started with application development using IBM starter kits. This allows you to become familiar with the types of services available on IBM Cloud, and to develop a sense of which patterns and choices are appropriate for different use cases. Some of the technologies and products covered in this book are Cloudant®, Watson™ Analytics, machine learning, elastic search, Kubernetes, containers, pre-signed URLs, Aspera®, and SQL Query. In addition to the technical integration steps, it also presents a business case for integrating these technologies and products with IBM Cloud Object Storage. The target audience for this paper is cloud native developers and cloud object storage specialists.

Software Architecture Springer

As vendors rush to the market with products that are intended to complement IBM's products, office system architectures are becoming increasingly important. Topics covered in this book include: document content architecture, data streams architecture, mixed object document content architecture, graphic and text object content architecture, document interchange architecture, and system network architecture.

The Handbook of Global Outsourcing and Offshoring IBM Redbooks

Today, organizations are responding to market demands and regulatory requirements faster than ever by extending their applications and data to new digital applications. This drive to deliver new functions at speed has paved the way for a huge growth in cloud-native applications, hosted in both public and private cloud infrastructures. Leading organizations are now exploiting the best of both worlds by combining their traditional enterprise IT with cloud. This hybrid cloud approach places new requirements on the integration architectures needed to bring these two worlds together. One of the largest providers of application logic and data services in enterprises today is IBM Z, making it a critical service provider in a hybrid cloud architecture. The primary goal of this IBM Redpaper publication is to help IT architects choose between the different application integration architectures that can be used for hybrid integration with IBM Z, including REST APIs, messaging, and event streams.

The Integrated Architecture Framework Explained Packt Publishing Ltd

This book constitutes the refereed proceedings of the First European Conference on Software Architecture, ECSA 2007, held in Aranjuez, Spain. The 12 revised long papers presented together with four short papers cover description languages and metamodels, architecture-based code generation, run-time monitoring, requirements engineering, service-oriented architectures, aspect-oriented software architectures, ontology-based approaches, autonomic systems, middleware and web services.

Application Development for IBM WebSphere Process Server 7 and Enterprise Service Bus 7 Springer

An authoritative source about methods, languages, methodologies and supporting tools for constructing information systems that also provides examples for reference models. Its strength is the careful selection of each of the above mentioned components, based on technical merit. The second edition completely revises all articles and features new material on the latest developments in XML & UML. The structure follows the definition of the major components of Enterprise Integration as defined by GERAM (Generalised Enterprise Reference Architecture and Methodology). 1st edition sold about 600 copies since January 2003.

Electronic Financial Services Springer Science & Business Media

This book constitutes the thoroughly refereed post-workshop proceedings of nine international workshops held in Hoboken, NJ, USA, in conjunction with the 8th International Conference on Business Process Management, BPM 2010, in September 2010. The nine workshops focused on Reuse in Business Process Management (rBPM 2010), Business Process Management and Sustainability (SusBPM 2010), Business Process Design (BPD 2010), Business Process Intelligence (BPI 2010), Cross-Enterprise Collaboration, People, and Work (CEC-PAW 2010), Process in the Large (IW-PL 2010), Business Process Management and Social Software (BPMS2 2010), Event-Driven Business Process Management (edBPM 2010), and Traceability and Compliance of Semi-Structured Processes (TC4SP 2010). In addition, three papers from the special track on Advances in Business Process Education are also included in this volume. The overall 66 revised full papers presented were carefully reviewed and selected from 143 submissions.

Business Process Management Springer

This book constitutes the refereed proceedings of the 10th International Conference on Model Driven Engineering Languages and Systems (formerly the UML series of conferences), MODELS 2007, held in Nashville, USA, September 30 - October 5, 2007. The 45 revised full papers were carefully reviewed and selected from 158 initial submissions. The papers are organized in topical sections.

IBM Systems Application Architecture Standard Requirements Springer

This book contains the proceedings of two long-standing workshops: The 10th International Workshop on Business Process Modeling, Development and Support, BPMDS 2009, and the 14th International Conference on Exploring Modeling Methods for Systems Analysis and Design, EMMSAD 2009, held in connection with CAISE 2009 in Amsterdam, The Netherlands, in June 2009. The 17 papers accepted for BPMDS 2009 were carefully reviewed and selected from 32 submissions. The topics addressed by the BPMDS workshop are business and goal-related drivers; model-driven process change; technological drivers and IT services; technological drivers and process mining; and compliance and awareness. Following an extensive review process, 16 papers out of 36 submissions were accepted for EMMSAD 2009. These papers cover the following topics: use of ontologies; UML and MDA; ORM and rule-oriented modeling; goal-oriented modeling; alignment and understandability; enterprise modeling; and patterns and anti-patterns in enterprise modeling.

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