

## Real Life Bpmn Using Bpmn 2 0 To Analyze Improve And Automate Processes In Your Company

This is the second edition of Wil van der Aalst's seminal book on process mining, which now discusses the field also in the broader context of data science and big data approaches. It includes several additions and updates, e.g. on inductive mining techniques, the notion of alignments, a considerably expanded section on software tools and a completely new chapter of process mining in the large. It is self-contained, while at the same time covering the entire process-mining spectrum from process discovery to predictive analytics. After a general introduction to data science and process mining in Part I, Part II provides the basics of business process modeling and data mining necessary to understand the remainder of the book. Next, Part III focuses on process discovery as the most important process mining task, while Part IV moves beyond discovering the control flow of processes, highlighting conformance checking, and organizational and time perspectives. Part V offers a guide to successfully applying process mining in practice, including an introduction to the widely used open-source tool ProM and several commercial products. Lastly, Part VI takes a step back, reflecting on the material presented and the key open challenges. Overall, this book provides a comprehensive overview of the state of the art in process mining. It is intended for business process analysts, business consultants, process managers, graduate students, and BPM researchers.

Authored by members of WfMC, OMG and other key participants in the development of BPMN 2.0, the BPMN 2.0 Handbook Second Edition assembles industry thought-leaders and international experts. Following the ground-breaking body of work in the BPMN 2.0 Handbook First Edition this book is greatly expanded with substantial new content and chapters updated to the latest advances in this important standard. The authors examine a variety of aspects that start with an introduction of what's new and updated in BPMN 2.0, and look closely at interchange, best practices, analytics, conformance, optimization, choreography and more from a technical perspective. The authors also address the business imperative for widespread adoption of the standard by examining best practice guidelines, BPMN business strategy and the human interface including real-life case studies. Other critical chapters tackle the practical aspects of making a BPMN model executable and the basic timeline analysis of a BPMN model. This book is for business people who want to understand the how and why of BPMN 2.0 in simple non-jargon terms and the strategy and motivation for its adoption within the corporation. It is also for the technical practitioner seeking current insights into the BPMN 2.0 standard and how to take advantage of its powerful capabilities. Guide to BPMN 2.0 Technical Aspects \* Admission Process Optimization with BPMN and OSCO \* Analytics for Performance Optimization of BPMN2.0 Business Processes \*

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Bespoke Enterprise Architecture: Tailoring BPMN 2.0 using Conformance Classes \* BPMN 2.0 Interchange \* BPMN Extension for Social BPM \* Collaborative Activities Inside Pools \* Making a BPMN 2.0 Model Executable \* New Capabilities for Interaction Modeling in BPMN 2 \* New Capabilities for Process Modeling in BPMN 2 \* Refactoring BPMN Models \* Simulation for Business Process Management Guide to the Business Imperative for BPMN \* Best Practice Guidelines for BPMN 2.0 \* BPMN and Business Strategy: One Size Does Not Fit All \* BPMN Used by Business Professionals: An In-depth Reflection on BPM with BPMN by the Swiss FOITT \* Business Process Integration in a Defense Product-focused Company \* Human-Readable BPMN Diagrams \* Making BPMN 2.0 Fit for Full Business Use \* Multi-faceted Business Process Modeling Appendix includes BPMN Supporters list, XPDL 2.2 Guide, BPMN Glossary, index and more.

With over fifty implementations, Business Process Modeling Notation (BPMN) is an increasingly successful Object Management Group (OMG) standard. Whether you are in government, manufacturing, or business, you can easily and accurately depict your company's processes in BPMN. BPMN Specification 1.1, however, can be abstract, lengthy, and complicated. As a result, learning to use BPMN can be daunting and force professionals to steer clear of it without an efficient and easy way of getting acquainted with the material. The straightforward information that is packed into this book is exactly what is needed. This guide gathers all the ideas, design, and problem-solving of BPMN into one simple, focused book, and offers concrete true-life examples that explain BPMN's approach to process modeling. With the wide-scale adoption of BPMN2.0, a new era for process modeling has arisen. In their second edition, Tom and Rick continue with the most concise coverage of BPMN available. They cover more 'real-life' business scenarios and model more unstructured, monitored and indefinite activities. The text not only corporate new metaphors of events and decision-directed event processing, it also covers 15 different design patterns, forged in the furnace of practical, state-of-the-art process modeling, that provide a shortcut to a proven design. The material in this comprehensive, focused book has been gleaned from actual practices and proven in many of the most advanced processes in production today. Build visible, agile and powerful process that meet the needs of a chaotic and globally federated environment. This book will teach you to tackle modern process modeling challenges. REVIEWS: "Finding a succinct and accessible book on the Business Process Modeling Notation (BMPN) is a pleasure. Finding one that clearly lays out the role of decisions and business rules in business processes is a delight. The MicroGuide to Business Process Management in BPMN is a short, easy to read book that gives a solid grounding in the core concepts of BPMN, passes on some realworld experience and suggestions from the authors, and gives great, practical advice on how use cases, BPMN, decision management and business rules all come together. Tom Debevoise and Rick Geneva have done a great job in outlining the Process

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Modeling Framework, introducing BPMN, and showing how it can be used. If BPMN is (or will be) part of your world, this book should be on your shelves." -James Taylor, Author Smart (Enough) Systems "It should be a valuable addition to a practitioner's library. I found the PMF and application to use case language to be of particular interest, as well as the relationship between business processes and business rules."- Stan Hendryx, Hendryx & Associates

This book contains a selection of articles from The 2016 World Conference on Information Systems and Technologies (WorldCIST'16), held between the 22nd and 24th of March at Recife, Pernambuco, Brazil. WorldCIST is a global forum for researchers and practitioners to present and discuss recent results and innovations, current trends, professional experiences and challenges of modern Information Systems and Technologies research, together with their technological development and applications. The main topics covered are: Information and Knowledge Management; Organizational Models and Information Systems; Software and Systems Modeling; Software Systems, Architectures, Applications and Tools; Multimedia Systems and Applications; Computer Networks, Mobility and Pervasive Systems; Intelligent and Decision Support Systems; Big Data Analytics and Applications; Human-Computer Interaction; Health Informatics; Information Technologies in Education; Information Technologies in Radiocommunications.

Real-Life BPMN (4th Edition)Includes an Introduction to DMN

How can we optimize differentiating business processes and exploit their full potential? Here Volker Stiehl provides answers, utilizing the various options that the BPMN (Business Process Model and Notation) standard offers for planning, implementing and monitoring processes. The book presents an approach for implementing an architecture for applications that strives to find a balance between development and maintenance costs, sustainability, scalability and fault tolerance; that meets flexibility requirements without becoming inordinately complex itself; and that keeps the end application as abstract as possible from the system landscape in which it operates. Based on the semantic enhancements found in version 2.0 of the BPMN standard, which have made it possible to execute process models, his approach exploits BPMN to create and run complete application architectures. In this context, BPMN is not just used to model the business processes of the application, as the "B" in BPMN might suggest; but also to model and execute the integration processes between the systems. Throughout the book, the software package SAP Process Orchestration is used to illustrate the implementation of the proposed architecture, yet all recommendations are intentionally kept generic so that they can be implemented on any other comparable platform as well. Software architects, IT managers, software developers and project managers, as well as students of information and business technology will find the book a valuable resource. The proposed application architecture offers them a detailed blueprint, the principles of which they can use to plan and implement process-driven distributed applications.

This book constitutes the refereed post-conference proceedings of the 14th IFIP WG 5.1 International Conference on Product Lifecycle Management, PLM 2017, held in Seville, Spain, in July 2017. The 64 revised full papers presented were carefully reviewed and selected from 78 submissions. The papers are organized in the following topical sections: PLM maturity, implementation and adoption; PLM for digital factories; PLM and process simulation; PLM, CAX and knowledge management; PLM and education; BIM; cyber-physical systems; modular design and products; new product development; ontologies, knowledge and data models; and Product, Service, Systems (PSS).

This book presents a selection of papers from the 2017 World Conference on Information Systems and Technologies (WorldCIST'17), held between the 11st and 13th of April 2017 at Porto Santo Island, Madeira, Portugal. WorldCIST is a global forum for researchers and practitioners to present and discuss recent results and innovations, current trends, professional experiences and challenges involved in modern Information Systems and Technologies research, together with technological developments and applications. The main topics covered are: Information and Knowledge Management; Organizational Models and Information Systems; Software and Systems Modeling; Software Systems, Architectures, Applications and Tools; Multimedia Systems and Applications; Computer Networks, Mobility and Pervasive Systems; Intelligent and Decision Support Systems; Big Data Analytics and Applications; Human–Computer Interaction; Ethics, Computers & Security; Health Informatics; Information Technologies in Education; and Information Technologies in Radiocommunications.

This volume contains the conference proceedings of ISoLA 2008, the Third International Symposium on Leveraging Applications of Formal Methods, Verification and Validation, which was held in Porto Sani (Kassandra, Chalkidiki), Greece during October 13–15, 2008, sponsored by EASST and in cooperation with the IEEE Technical Committee on Complex Systems. Following the tradition of its forerunners in 2004 and 2006 in Cyprus, and the ISoLA Workshops in Greenbelt (USA) in 2005 and in Poitiers (France) in 2007, ISoLA 2008 provided a forum for developers, users, and researchers to discuss issues related to the adoption and use of rigorous tools and methods for the specification, analysis, verification, certification, construction, test, and maintenance of systems from the point of view of their different application domains. Thus, the ISoLA series of events serves the purpose of bridging the gap between designers and developers of rigorous tools, and users in engineering and in other disciplines, and to foster and exploit synergetic relationships among scientists, engineers, software developers, decision makers, and other critical thinkers in companies and organizations. In particular, by providing a venue for the discussion of common problems, requirements, algorithms, methodologies, and practices, ISoLA aims at supporting researchers in their quest to improve the utility, reliability, flexibility, and efficiency of tools for building systems, and users in their search for adequate solutions to their problems.

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In today's IT architectures, microservices and serverless functions play increasingly important roles in process automation. But how do you create meaningful, comprehensive, and connected business solutions when the individual components are decoupled and independent by design? Targeted at developers and architects, this book presents a framework through examples, practical advice, and use cases to help you design and automate complex processes. As systems are more distributed, asynchronous, and reactive, process automation requires state handling to deal with long-running interactions. Author Bernd Ruecker demonstrates how to leverage process automation technology like workflow engines to orchestrate software, humans, decisions, or bots. Learn how modern process automation compares to business process management, service-oriented architecture, batch processing, event streaming, and data pipeline solutions Understand how to use workflow engines and executable process models with BPMN Understand the difference between orchestration and choreography and how to balance both

This book contains the proceedings of two long-running events held along with the CAiSE conference relating to the areas of enterprise, business-process and information systems modeling: \* the 21st International Conference on Business Process Modeling, Development and Support, BPMDS 2020, and \* the 25th International Conference on Exploring Modeling Methods for Systems Analysis and Development, EMMSAD 2020. The conferences were planned to take place in Grenoble, France, during June 8-9, 2020. They were held virtually due to the COVID-19 pandemic. For BPMDS 13 full papers and 1 short paper were carefully reviewed and selected for publication from a total of 30 submissions; for EMMSAD 11 full papers and 4 short papers were accepted from 29 submissions. The papers were organized in topical sections named as follows: BPMDS: Business process execution and monitoring, BPM applications in industry and practice, planning and scheduling in business processes, process mining, process models and visualizations EMMSAD: Requirements and method engineering, enterprise and business modeling, software-related modeling, domain-specific modeling, evaluation-related research.

Summary Elm is more than just a cutting-edge programming language, it's a chance to upgrade the way you think about building web applications. Once you get comfortable with Elm's refreshingly different approach to application development, you'll be working with a clean syntax, dependable libraries, and a delightful compiler that essentially eliminates runtime exceptions. Elm compiles to JavaScript, so your code runs in any browser, and Elm's best-in-class rendering speed will knock your socks off. Let's get started! Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications. About the technology Simply put, the Elm programming language transforms the way you think about frontend web development. Elm's legendary compiler is an incredible assistant, giving you the precise and user-friendly support you need to work efficiently. Elm applications have small bundle sizes that run faster than JavaScript frameworks and are famously easy to maintain as they grow. The catch? Elm isn't JavaScript, so you'll have some new skills to learn. About the book Elm in Action teaches you the Elm language along with a new approach to coding frontend applications. Chapter by chapter, you'll create a full-featured photo-browsing app, learning as you go about Elm's modular architecture, Elm testing, and how to work seamlessly with your favorite JavaScript libraries. You'll especially appreciate author and Elm core team member Richard Feldman's unique insights, based on his thousands of hours writing production code in Elm. When you're done, you'll have a toolbox of new development skills and a stunning web app for your portfolio. What's inside Scalable design for production web applications Single-page applications in Elm Data modeling in Elm Accessing JavaScript from Elm About the reader For web developers with no prior experience in Elm or functional programming. About the author Richard Feldman is a software engineer at NoRedInk and a well-known member of the Elm community. Table of Contents PART 1 - GETTING STARTED 1. Welcome to Elm 2. Your first Elm application 3. Compiler as assistant PART 2 -



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PRODUCTION-GRADE ELM 4. Talking to servers 5. Talking to JavaScript 6. Testing PART 3 - BUILDING BIGGER 7. Data modeling 8. Single-page applications

BPMN (Business Process Model and Notation) is the established standard for business process modeling. Only a few years after its first publication, it has gained widespread adoption in practice. All important modeling tools support BPMN diagramming. It is possible to create business-oriented diagrams, but also technical models for process execution in business process management systems (BPMS). This book provides a stepwise introduction to BPMN, using many examples close to practice. Starting with the basic elements for modeling sequence flow, all BPMN 2.0 diagrams are presented and discussed in detail. You will gain a profound understanding of the complete notation, and you will be able to make correct use of the different language elements. In the second edition, a collection of useful modeling patterns has been added. These patterns provide best-practice solutions for typical problems arising in the practice of process modeling.

Case management is a branch of business process management dealing with unstructured processes. CMMN is a business-oriented language for case models, both descriptive and executable. This book shows how to use CMMN to create case models in which the logic is both clear from the printed diagrams and executable on a business automation platform.

The Complete Business Process Handbook is the most comprehensive body of knowledge on business processes with revealing new research. Written as a practical guide for Executives, Practitioners, Managers and Students by the authorities that have shaped the way we think and work with process today. It stands out as a masterpiece, being part of the BPM bachelor and master degree curriculum at universities around the world, with revealing academic research and insight from the leaders in the market. This book provides everything you need to know about the processes and frameworks, methods, and approaches to implement BPM. Through real-world examples, best practices, LEADing practices and advice from experts, readers will understand how BPM works and how to best use it to their advantage. Cases from industry leaders and innovators show how early adopters of LEADing Practices improved their businesses by using BPM technology and methodology. As the first of three volumes, this book represents the most comprehensive body of knowledge published on business process. Following closely behind, the second volume uniquely bridges theory with how BPM is applied today with the most extensive information on extended BPM. The third volume will explore award winning real-life examples of leading business process practices and how it can be replaced to your advantage. Learn what Business Process is and how to get started Comprehensive historical process evolution In-depth look at the Process Anatomy, Semantics and Ontology Find out how to link Strategy to Operation with value driven BPM Uncover how to establish a way of Thinking, Working, Modelling and Implementation Explore comprehensive Frameworks, Methods and Approaches How to build BPM competencies and establish a Center of Excellence Discover how to apply Social BPM, Sustainable and Evidence based BPM Learn how Value & Performance Measurement and Management Learn how to roll-out and deploy process Explore how to enable Process Owners, Roles and Knowledge Workers Discover how to Process and Application Modelling Uncover Process Lifecycle, Maturity, Alignment and Continuous Improvement Practical continuous improvement with the way of Governance Future BPM trends that will affect business Explore the BPM Body of Knowledge

This book constitutes the proceedings of the 18th International Conference on Business Process Management, BPM 2020, held in Seville, Spain, in September 2020. The conference was held virtually due to the COVID-19 pandemic. The 27 full papers included in this volume were carefully reviewed and selected from 125 submissions. Two full keynote papers are also included. The papers are organized in topical sections named: foundations; engineering; and management.

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This book provides the most complete formal specification of the semantics of the Business Process Model and Notation 2.0 standard (BPMN) available to date, in a style that is easily understandable for a wide range of readers – not only for experts in formal methods, but e.g. also for developers of modeling tools, software architects, or graduate students specializing in business process management. BPMN – issued by the Object Management Group – is a widely used standard for business process modeling. However, major drawbacks of BPMN include its limited support for organizational modeling, its only implicit expression of modalities, and its lack of integrated user interaction and data modeling. Further, in many cases the syntactical and, in particular, semantic definitions of BPMN are inaccurate, incomplete or inconsistent. The book addresses concrete issues concerning the execution semantics of business processes and provides a formal definition of BPMN process diagrams, which can serve as a sound basis for further extensions, i.e., in the form of horizontal refinements of the core language. To this end, the Abstract State Machine (ASMs) method is used to formalize the semantics of BPMN. ASMs have demonstrated their value in various domains, e.g. specifying the semantics of programming or modeling languages, verifying the specification of the Java Virtual Machine, or formalizing the ITIL change management process. This kind of improvement promotes more consistency in the interpretation of comprehensive models, as well as real exchangeability of models between different tools. In the outlook at the end of the book, the authors conclude with proposing extensions that address actor modeling (including an intuitive way to denote permissions and obligations), integration of user-centric views, a refined communication concept, and data integration.

In the increasingly competitive corporate sector, businesses must examine their current practices to ensure business success. By examining their social, financial, and environmental risks, obligations, and opportunities, businesses can re-design their operations more effectively to ensure prosperity. Sustainable Business: Concepts, Methodologies, Tools, and Applications is a vital reference source that explores the best practices that promote business sustainability, including examining how economic, social, and environmental aspects are related to each other in the company's management and performance. Highlighting a range of topics such as lean manufacturing, sustainable business model innovation, and ethical consumerism, this multi-volume book is ideally designed for entrepreneurs, business executives, business professionals, managers, and academics seeking current research on sustainable business practices.

Business-oriented guide to the new Decision Model and Notation standard, completely revised and updated to DMN 1.2. Many practical examples, 171 tables and diagrams.

This book constitutes the refereed proceedings of ten international workshops held in Eindhoven, The Netherlands, in conjunction with the 12th International Conference on Business Process Management, BPM 2014, in September 2014. The ten workshops comprised Process-oriented Information Systems in Healthcare (ProHealth 2014), Security in Business Processes (SBP 2014), Process Model Collections: Management and Reuse (PMC-MR 2014), Business Processes in Collective Adaptive Systems (BPCAS 2014), Data- and Artifact-centric BPM (DAB 2014), Business Process Intelligence (BPI 2014), Business Process Management in the Cloud (BPMC 2014), Theory and Applications of Process Visualization (TaProViz 2014), Business Process Management and Social Software (BPMS2 2014) and Decision Mining and Modeling for Business Processes (DeMiMoP 2014). The 38 revised full and eight short papers presented were carefully reviewed and selected from 84 submissions. In addition, six short papers resulting from the Doctoral Consortium at BPM 2014 are included in this book.

This is the improved 2nd edition of the very successful book "Real-Life BPMN" with excellent reviews on Amazon.com (don't forget to check reviews of the 1st edition). It is about Business Process Management (BPM) and Business Process Model and Notation (BPMN 2.0). Truth be

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told, there are several BPMN books on the market. Some of them are quite good, so why should you care about this one? This book distills the experience the authors accumulated while running camunda, a consulting company that specializes in BPM. camunda helped to define the BPMN specification, and during the past five years, they have applied BPMN in over 250 customer engagements. These were big businesses, small companies, and public institutions. Now you can benefit from this practical experience. Topics covered: The basics of modeling processes with Business Process Model and Notation (BPMN 2.0) Methods to apply BPMN successfully to real-world problems A practical approach for automating processes with BPMN 2.0 The alignment of business and IT as an attainable goal Advice on introducing BPMN across your company This book explains the notation, of course, but it also delves into the kinds of challenges that process designers face every day. It talks about pitfalls to avoid. It gives dos and don'ts. There are guidelines and best practices. This second edition in English is based on the successful fourth German edition, which, according to amazon.de, it is still the highest-ranked book on BPMN in German. The number of five-star ratings awarded by readers speaks volumes. Also available in Spanish.

At last, a simple, well-written survey of process redesign that will help you transform your organization into a world-class competitor. Author Dan Madison explains the evolution of work management styles, from traditional to process-focused, and introduces the tools of process mapping, the roles and responsibilities of everyone in the organization, and a logical ten-step redesign methodology. Thirty-eight design principles allow readers to custom-fit the methodology to the particular challenges within their own organizations. Additional chapters by guest writers Jerry Talley, Ph.D., and Vic Walling, Ph.D., discuss cross-department process management and using computer simulation in redesign, respectively. (Publisher)

In *Beyond E-Business: Towards Networked Structures* Paul Grefen returns with his tried and tested BOAT framework for e-business, now fully expanded and updated with the very latest overview of digitally connected business; from business models, organization structures and architecture, to information technology. What used to be termed "e-business" is now simply business as usual. Today's successful organizations are complex; they are part of dynamic business networks built on digital channels, going far beyond traditional e-business. This text provides invaluable insights of modern e-business integrated with networked business, going much further than the usual analysis of traditional e-business texts. Included is coverage of the Big Five—social media, mobile computing, big data, cloud computing, and the internet of things --as well as service-oriented business and technology. This essential text provides a compact roadmap to networked e-business for engineering, information systems or business students as well as professionals in the field.

This textbook covers the entire Business Process Management (BPM) lifecycle, from process identification to process monitoring, covering along the way process modelling, analysis, redesign and automation. Concepts, methods and tools from business management, computer science and industrial engineering are blended into one comprehensive and inter-disciplinary approach. The presentation is illustrated using the BPMN industry standard defined by the Object Management Group and widely endorsed by practitioners and vendors worldwide. In addition to explaining the relevant conceptual background, the book provides dozens of examples, more than 230 exercises – many with solutions – and numerous suggestions for further reading. This second edition includes extended and completely revised chapters on process identification, process discovery, qualitative process analysis, process redesign, process automation and process monitoring. A new chapter on BPM as an enterprise capability has been added, which expands the scope of the book to encompass topics such as the strategic alignment and governance of BPM initiatives. The textbook is the result of many years of combined teaching experience of the authors, both at the undergraduate and graduate levels as well as in the context of professional training. Students and professionals from both business



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management and computer science will benefit from the step-by-step style of the textbook and its focus on fundamental concepts and proven methods. Lecturers will appreciate the class-tested format and the additional teaching material available on the accompanying website. This book constitutes the proceedings of the 12th International Conference on Business Process Management, BPM 2014, held in Haifa, Israel, in September 2014. The 21 regular papers and 10 short papers included in this volume were carefully reviewed and selected from 123 submissions. The papers are organized in 9 topical sections on declarative processes, user-centered process approaches, process discovery, integrative BPM, resource and time management in BPM, process analytics, process enabled environments, discovery and monitoring, and industry papers.

This book constitutes the proceedings papers of the 13th IFIP Working Conference on the Practice of Enterprise Modeling, held in Riga, Latvia, in November 2020. Due to the COVID-19 pandemic the conference took place virtually. The 19 full papers presented together with 7 short and 2 invited papers in this volume were carefully reviewed and selected from a total of 58 submissions to the main conference. The special focus of PoEM 2020 is on the role of enterprise modelling in the digital age. The selected papers are grouped by the following topics: Enterprise Modeling and Enterprise Architecture, Formal Aspects of Enterprise Modelling, Foundations and Applications of Enterprise Modeling, Enterprise Ontologies, Business Process Modeling, Risk and Security Modeling, Requirements Modeling, and Process Mining. Creating business process models that can be shared effectively across the business - and between business and IT - demands more than a digest of BPMN shapes and symbols. It requires a step-by-step methodology for going from a blank page to a complete process diagram. It also requires consistent application of a modeling style, so that the modeler's meaning is clear from the diagram itself. Author Bruce Silver explains not only the meaning and proper usage of the entire BPMN 2.0 palette, but calls out the working subset that you really need to know. He also reveals the hidden assumptions of core concepts left unexplained in the spec, the key to BPMN's deeper meaning. The book addresses BPMN at three levels, with primary focus on the first two. Level 1, or descriptive BPMN, uses a basic working set of shapes and symbols to meet the needs of business users doing process mapping. Level 2, or analytical BPMN, is aimed at business analysts and architects. It takes advantage of BPMN's expressiveness for detailing event and exception handling, key to analyzing and improving process performance and quality. Level 3, or executable BPMN, is brand new in BPMN 2.0. Here the XML underneath the diagram shapes becomes an executable design can be deployed to a process engine to automate the process. The method and style detailed in the book aligns these three levels, facilitating business-IT collaboration throughout the process lifecycle. Inside the book you'll find discussions, illustrated with over 100 examples, about: The questions BPMN asks, and does not ask The meaning of basic concepts like starting and completing, sending and receiving, waiting and listening Subprocesses and hierarchical modeling style The five basic steps in creating Level 1 models Event and exception-handling patterns Branching and merging patterns Level 2 modeling method Elements of BPMN style: element usage and diagram composition

Business Process Modeling Notation (BPMN) is a standard, graphical modeling representation for business processes. It provides an easy to use, flow-charting notation that is independent of the implementation environment. An underlying rigor supports the notation-facilitating the translation of business level models into executable models that BPM Suites and workflow engines can understand. Over recent years, BPMN has been widely adopted by Business Process Management (BPM) related products-both the Business Process Analysis and Modeling tool vendors and the BPM Suites. This book is for business users and process modeling practitioners alike. Part I provides an easily understood introduction to the key components of BPMN (put forward in a user-friendly fashion). Starting off with simple models, it progresses

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into more sophisticated patterns. Exercises help cement comprehension and understanding (with answers available online). Part II provides a detailed and authoritative reference on the precise semantics and capabilities of the standard.

This book constitutes the thoroughly refereed proceedings of seven international workshops held in Stockholm, Sweden, in conjunction with the 27th International Conference on Advanced Information Systems Engineering, CAiSE 2015, in June 2015. The 38 full and nine short papers were carefully selected from 107 submissions. The workshops were the Second International Workshop on Advances in Services Design based on the Notion of Capability (ASDENCA), the Third International Workshop on Cognitive Aspects of Information Systems Engineering (COGNISE), the First International Workshop on Digital Business Innovation and the Future Enterprise Information Systems Engineering (DiFenSE), the First International Workshop on Enterprise Modeling (EM), the First Workshop on the Role of Real-World Objects in Business Process Management Systems (RW-BPMS), the 10th International Workshop on Trends in Enterprise Architecture Research (TEAR), and the 5th International Workshop on Information Systems Security Engineering (WISSE).

Enterprise Process Management Systems: Engineering Process-Centric Enterprise Systems using BPMN 2.0 proposes a process-centric paradigm to replace the traditional data-centric paradigm for Enterprise Systems (ES)--ES should be reengineered from the present data-centric enterprise architecture to process-centric process architecture to be called as Enterprise Process Management Systems (EPMS). The real significance of business processes can be understood in the context of current heightened priority on digital transformation or digitalization of enterprises. Conceiving the roadmap to realize a digitalized enterprise via the business model innovation becomes amenable only from the process-centric view of the enterprise. This pragmatic book: Introduces Enterprise Process Management Systems (EPMS) solutions that enable an agile enterprise. Describes distributed systems and Service Oriented Architecture (SOA) that paved the road to EPMS. Leverages SOA to explain the cloud-based realization of business processes in terms of Web Services. Describes how BPMN 2.0 addresses the requirements for agility by ensuring a seamless methodological path from process requirements modeling to execution and back (to enable process improvements). Presents the spreadsheet-driven Spreadsheets Application Development (SAD) methodology for the design and development of process-centric application systems. Describes process improvement programs ranging right from disruptive programs like BPR to continuous improvement programs like lean, six sigma and TOC. Enterprise Process Management Systems: Engineering Process-Centric Enterprise Systems using BPMN 2.0 describes how BPMN 2.0 can not only capture business requirements but it can also provide the backbone of the actual solution implementation. Thus, the same diagram prepared by the business analyst to describe the business's desired To-Be process can also be used to automate the execution of that process on a modern process engine.

BPMN 2.0 is the industry standard diagramming language for business process models. The meaning of the business process diagram is the same, regardless of the tool used to create it. But creating models that are correct, complete, and clear demands more than a dictionary of BPMN shapes and symbols. It also requires a methodology for translating process logic consistently into the diagram. And it requires a measure of modeling style as well, conventions that ensure that the process logic is unambiguous from the diagram by itself. In short, "good BPMN" requires a disciplined approach called "method and style." In this book, Bruce Silver explains which BPMN elements process modelers need to understand, in two levels, including exactly where and how to use each element. Level 1 (the Descriptive modeling subclass of BPMN 2.0) is a palette of shapes and symbols largely carried over from traditional flowcharting. Level 2 (the Analytic subclass) expands the palette to be able to describe event-triggered behavior, critical to modeling exception handling. The book explains the real meaning of BPMN's most basic concepts - like activity, process, and end state - essential to using the language correctly, and provides a step-

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by-step methodology for going from a blank page to a complete end-to-end BPMN model, developed from the top down in a hierarchical structure. From the top-level diagram you can see on a single page exactly how the process starts, its possible end states, what the instance represents, and communications with the Customer, service providers, and other processes. From there you can drill down to see the details of any part of the process.

This book describes in detail how ARIS methods model and identify business processes by means of the UML (Unified Modeling Language), leading to an information model that serves as the basis for a systematic and intelligent development of application systems. Multiple real-world examples using SAP R/3 illustrate aspects of business process modeling including methods of knowledge management, implementation of workflow systems and standard software solutions, and the deployment of ARIS methods.

Business Decision Management is a technology-assisted practice of defining, analyzing, and maintaining the decision logic that drives interactions with customers, suppliers, and employees. For many years, subject matter experts created text-based "requirements" and handed them over to programmers for implementation on a Business Rule Engine. The Decision Model and Notation (DMN) now offers a better way: decision logic precisely defined and maintained by subject matter experts themselves, using business-friendly graphical models that can be automatically validated for completeness and consistency. Since DMN is an industry standard, the meaning of a decision model does not depend on the tool used to create it or some consultant's methodology. It's defined by a specification. And best of all, DMN models are directly executable, so What You See Is What You Get. "DMN Method and Style" is your guide to the new standard and to the features and benefits of Business Decision Management. It explains not only the shapes and symbols used to describe end-to-end decision logic in a Decision Requirements Diagram (DRD), but how to properly decompose the top-level decision into a network of supporting decisions and input data. It also shows you how to define the detailed logic of each decision in the diagram using decision tables, literal expressions, and reusable logic blocks called business knowledge models. Like its predecessor "BPMN Method and Style," the book suggests best practices, in the form of style rules and a modeling methodology, for capturing the end-to-end decision logic in a way that is complete, consistent, and clear from the printed DRD and tabular expressions alone.

Do you ever think of how you learn--reading, watching, doing? Maybe you use all three. Many of us go through life unaware of how we learn or acquire a skill set; we just learn it. We all have the capability to learn. It is from that perspective and with a passion for business process modeling with Business Process Modeling and Notation (BPMN) that Dr. Joshua Fuehrer and Joseph Butchko set out to write a book that will provide an understanding of BPMN while engaging in the adult learning process for acquiring knowledge. Learning BPMN 2.0 is intended to bridge the gap between theory and practice. While the focus is on learning BPMN, this book will also teach foundational concepts for business process improvement, while maintaining a balance between academia and real-world examples. Through research, anecdotal evidence, and a collection of various resources and videos Learning BPMN 2.0 will help you grasp ideas and transform information in innovative ways. In the end you will have a greater understanding on how to apply BPMN in a way that communicates your organizations business and technical process models.

This is the improved 3rd edition of the very successful book "Real-Life BPMN" with excellent reviews on Amazon.com (don't forget to check reviews of the 1st and 2nd edition). It is about business process management (BPM) and Business Process Model and Notation (BPMN 2.0). Truth be told, there are several BPMN books on the market. Some of them are quite good, so why should you care about this one? This book distills the experience the authors accumulated while running Camunda, a consulting company that specializes in BPM. Camunda helped to

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define the BPMN specification, and during the past ten years, they have applied BPMN in over 1000 customer engagements. These were big businesses, small companies, and public institutions. Now you can benefit from this practical experience. Topics covered: The basics of modeling processes with Business Process Model and Notation (BPMN 2.0) Methods to apply BPMN successfully to real-world problems A practical approach for automating processes with BPMN 2.0 The alignment of business and IT as an attainable goal Advice on introducing BPMN across your company This book explains the notation, of course, but it also delves into the kinds of challenges that process designers face every day. It talks about pitfalls to avoid. It gives dos and don'ts. There are guidelines and best practices. In the 3rd edition we added introductions to the related BPM standards CMMN 1.1 for case management, handling unstructured processes DMN 1.1 for decision management, you might know as business rules management (BRM) This third edition in English is based on the successful fifth German edition, which, according to amazon.de, it is the highest-ranked book on BPMN in German. The number of five-star ratings awarded by readers speaks volumes. Also available in Spanish.

[Special Note: If you ordered in early September, please contact [www.processmodelingadvisor.com](http://www.processmodelingadvisor.com) to receive your FREE final-edited copy directly from the author.] Many business process models don't meet expectations. Why? Business analysts, managers, productivity improvement specialists, and consultants who develop process models by trial and error are prone to fail. This is THE only start-to-finish how-to guide for consistently producing high-quality business models. It shows you how to: - Establish or improve your business process modeling competence using the 6-step Universal Process Modeling Procedure. - Perceive, define/normalize any business process or activity using the 4-part Universal Business Process Definition. - Never miss the 3 Basic Business Process Flow elements. - Efficiently elicit process model content using razor-sharp elicitation agendas. - Elicit and model the 10 most common logical process model refinements. - Validate any process model's quality using 5 Universal Process Model Quality Checklists. - Use any process modeling tool at-hand, whether it be white board or process modeling software. Learn more at [www.ProcessModelingAdvisor.com](http://www.ProcessModelingAdvisor.com)

This book covers the whole spectrum of modeling goals to achieve optimal quality in the process model developed. It focuses on how to balance quality considerations across all semiotic levels when models are used for different purposes, and is based on SEQUAL, a framework for understanding the quality of models and modeling languages, which can take into account all main aspects relating to the quality of models. Chapter 1 focuses on the theoretical foundations, introducing readers to the topics of business processes and business process modeling, as well as the most important concept underlying the modeling of business processes. In turn, Chapter 2 addresses the quality of models in general and business process models in particular. Chapter 3 contains a specialization of SEQUAL for quality of business process models. In Chapter 4, examples of the practical uses of business process models are provided, together with the results of detailed case studies on how to achieve and maintain quality in business process models. Chapter 5 presents a process modeling value framework that demonstrates how to achieve more long-term and higher return on investment with regard to (business) process and enterprise models. Lastly, Chapter 6 reviews the main points of the book and discusses the potential for business process modeling in the future through its combination with other types of modeling. The book has two intended audiences. It is primarily intended for computer science, software engineering and information system students at the postgraduate level who want to know more about business process modeling and the quality of models in preparation for professional practice. The second audience consists of professionals with extensive experience in and responsibilities related to the development and evolution of process-oriented information systems and information systems methodologies in general, who need to formalize and structure their practical experience or update their knowledge as a way to improve their professional



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activity. The book also includes a number of real-world case studies that make it easier to grasp the main theoretical concepts, helping readers apply the approaches described.

Go from Business Process Modeling to Orchestration and Service Oriented Architecture with this book and eBook.

This book constitutes the refereed proceedings of the 5th International Conference on Business Process Management, BPM 2007, held in Brisbane, Australia, in September 2007. The papers are organized in topical sections on business process maturity and performance, business process modeling, case studies, compliance and change, process configuration and execution, formal foundations of BPM, business process mining, and semantic issues in BPM.

Business Process Management (BPM) has become one of the most widely used approaches for the design of modern organizational and information systems. The conscious treatment of business processes as significant corporate assets has facilitated substantial improvements in organizational performance but is also used to ensure the conformance of corporate activities. This Handbook presents in two volumes the contemporary body of knowledge as articulated by the world's leading BPM thought leaders. This first volume focuses on arriving at a sound definition of BPM approaches and examines BPM methods and process-aware information systems. As such, it provides guidance for the integration of BPM into corporate methodologies and information systems. Each chapter has been contributed by leading international experts. Selected case studies complement their views and lead to a summary of BPM expertise that is unique in its coverage of the most critical success factors of BPM. The second edition of this handbook has been significantly revised and extended. Each chapter has been updated to reflect the most current developments. This includes in particular new technologies such as in-memory data and process management, social media and networks. A further focus of this revised and extended edition is on the actual deployment of the proposed theoretical concepts. This volume includes a number of entire new chapters from some of the world's leading experts in the domain of BPM. This is the improved 4th edition of the very successful book "Real-Life BPMN" with excellent reviews on Amazon.com (don't forget to check reviews of the former editions). In this book you will learn how to: Model processes with Business Process Model and Notation (BPMN) Successfully apply BPMN to real-world problems Use a practical approach to workflow automation with BPMN 2.0 Align business, development and operations Understand how microservices impact business processes Implement BPMN across your organization The definitive guide for process designers: provides an overview of business process notation, presents implementation guidance and best practices, and offers useful tips on what works and what doesn't. Truth be told, there are several BPMN books on the market. Some of them are quite good, so why should you care about this one? This book distills the experience the authors have accumulated while running Camunda, a company that delivers the leading open source workflow and decision automation platform. Camunda helped to define the BPMN specification, and during the past 15 years, they have applied BPMN to thousands of customer use cases. These were big businesses, small companies, and public institutions. Now you can benefit from this practical experience. This book also gives an introduction to DMN for decision management, which you might know as business rules management (BRM). This book is also available in German and Spanish. Note: The resolution of all images in the ebook has been increased, starting with the third edition, to improve the digital reading experience.

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