



Business Process Modelling

John Krogstie



Business Process Modelling:

ARIS — Business Process Modeling August-Wilhelm Scheer, 2000-03-01 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 **User Guidance in Business Process Modelling** Matthias Born, 2012 Business process modelling is referred to as a complex time consuming and error prone task The correction and improvement of badly designed process models becomes increasingly expensive in the later phases of the process management life cycle This thesis develops the principles of guided process modelling and provides a contribution towards simplifying process modelling activities The general research question this thesis answers is what are the difficulties in the usage of process modelling tools and which methods techniques and tools can guide users in modelling processes to target the existing problems The question is addressed by following a research methodology of design sciences Amongst others it includes a detailed analysis of the research problem a definition of the objective the design and development of solutions and an evaluation of the developed concepts In summary the thesis presents innovative concepts to support modellers and provides a step towards end user enablement in process modelling *Hagenberg Business Process Modelling Method* Felix Kossak, Christa Illibauer, Verena Geist, Christine Natschläger, Thomas Ziebermayr, Bernhard Freudenthaler, Theodorich Kopetzky, Klaus-Dieter Schewe, 2016-04-27 This book presents a proposal for designing business process management BPM systems that comprise much more than just process modelling Based on a purified Business Process Model and Notation BPMN variant the authors present proposals for several important issues in BPM that have not been adequately considered in the BPMN 2.0 standard It focusses on modality as well as actor and user interaction modelling and offers an enhanced communication concept In order to render models executable the semantics of the modelling language needs to be described rigorously enough to prevent deviating interpretations by different tools For this reason the semantics of the necessary concepts introduced in this book are defined using the Abstract State Machine ASM method Finally the authors show how the different parts of the model fit together using a simple example process and introduce the enhanced Process Platform eP2 architecture which binds all the different components together The resulting method is named Hagenberg Business Process Modelling H BPM after the Austrian village where it was designed The motivation for the development of the H BPM method stems from several industrial projects in which business analysts and software developers struggled with redundancies and inconsistencies in system documentation due to missing integration The book is aimed at researchers in business process management and industry 4.0 as well as advanced professionals in these areas *Business Process Model and Notation based on BPMN 2.0 Fundamental Courseware* Rob Vens, 2025-07-17

data pb style HXJ8SXH justify content flex start display flex flex direction column background position left top background size cover background repeat no repeat background attachment scroll This courseware is intended for educational purposes in Business Process Model and Notation The Business Process Model and Notation based on BPMNTM 2 training introduces participants to the essence of the language BPMN or Business Process Model and Notation is the standard for modeling business processes Currently under the care of The Object Management Group OMG BPMN has had a checkered history which we believe reflects the complexity it seeks to standardize Process models are much older than the kind of models that UML tried to standardize These UML models often have a much more intimate relationship with software development We can trace process models back to Frederick Winslow Taylor who was one of the first to attempt to look at production processes in a scientific way This happened in the 19th century at a time when people had unwavering faith in the ability of science and technology to solve all problems Before you can proceed to control improve or even innovate the processes of your organization it is important to provide insight into the processes How do you ensure that the knowledge of individuals comes together and is transferable and accessible to the entire organization As a modeling language BPMN offers a standard for communicating about business processes BPMNTM is a registered trademark of Object Management Group OMG Limited used under permission of OMG Limited All rights reserved *Business Process Model Abstraction* Sergey Smirnov,Hajo A. Reijers,Thijs Nugteren,Mathias Weske,2010 Business process management aims at capturing understanding and improving work in organizations The central artifacts are process models which serve different purposes Detailed process models are used to analyze concrete working procedures while high level models show for instance handovers between departments To provide different views on process models business process model abstraction has emerged While several approaches have been proposed a number of abstraction use case that are both relevant for industry and scientifically challenging are yet to be addressed In this paper we systematically develop classify and consolidate different use cases for business process model abstraction The reported work is based on a study with BPM users in the health insurance sector and validated with a BPM consultancy company and a large BPM vendor The identified fifteen abstraction use cases reflect the industry demand The related work on business process model abstraction is evaluated against the use cases which leads to a research agenda

The Complete Business Process Handbook Mark Von Rosing, Henrik von Scheel, August-Wilhelm Scheer, 2014-12-06 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 **Essential Business Process Modeling** Michael Havey,2005-08-18 Explains everything you need to know about BPM including Business Process Execution Language BPEL the leading BPM standard a look at all of the standards that play a role in BPM BPM architecture and theory Comprehensive examples and Design patterns and best practices cover **Business Process Management** DwaiPAYAN Sethi,2025-01-03 Business Process Management Analyze and Improve offers comprehensive insights into business process management BPM and business process analysis We cover everything you need to know about managing and analyzing business processes to enhance efficiency and effectiveness Our book is divided into two parts The first part focuses on BPM explaining the methods to discover model analyze measure improve optimize and automate business processes We discuss process discovery management and the technologies used in BPM The second part delves into business process analysis covering qualitative and quantitative process analysis process design monitoring modeling and transformation We provide practical guidance on understanding the health of business operations and improving process efficiency This book is a valuable resource for anyone looking to master business process management and analysis offering clear explanations and actionable insights **Quality in Business Process Modeling** John Krogstie,2016-10-27 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 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

BPMN 2.0 Thomas Allweyer, 2016-04-07 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

The Art of Business Process Modeling Martin Schedlbauer, 2010 Information systems have become a critical part of the infrastructure of most if not all businesses government organizations and even individual households To be useful an information system must integrate and align with the way the business conducts its operations By necessity this means that information systems construction requires an understanding of the organization s procedures operations and processes Articulating modeling and managing business processes and workflows are pre conditions to successful automation Business processes are part of the fabric of the business and represent a strategic and critical intellectual asset that needs to be understood and proactively managed Processes are often cross functional and involve multiple systems software applications and human assets including employees customers partners and vendors Processes must be formally defined and documented

so that they can be practiced uniformly and consistently across the organization Explicit articulation of processes is essential so that the processes truly become intellectual property of the organization rather than being tied to a specific individual Business process modeling or BPM for short is the activity of eliciting documenting modeling and analyzing work procedures within an organization To be successful the business analyst must possess the necessary modeling skills and business knowledge to carry out these responsibilities The first step in business process management is capturing and articulating the processes This is done through process modeling Once processes have been documented then the organization can think about optimizing and eventually automating the processes Optimization is done through a combination of manual analysis as well as automated simulation This book describes the PROMAP methodology for articulating and modeling business processes PROMAP is practical and based on over 20 years of experience in modeling Business Process Management Martyn A. Ould,2005 Businesses need to adapt constantly but are often held back by static IT systems The Riva approach to Business Process Management is a way of analysing the mass of concurrent collaborative activity that goes on in an organisation providing a solid basis for developing flexible IT systems that support a business BPMN, the Business Process Modeling Notation Pocket Handbook Patrice Briol,2008 The BPMN Business Process Modeling Notation Pocket Handbook is addressed to the individuals involved in a Business Process Management initiative This handbook can be used both by the analyst and the IT developer in a design or improve of the enterprise business processes Based on the BPMN specification 1 0 and 1 1 it describes clearly all elements of the notation in addition of some samples *Business Process Modeling* Jason A. Beckmann,2011 Business process modelling BPM is the activity of representing processes of an enterprise so that the current process may be analysed and improved BPM is typically performed by business analysts and managers who are seeking to improve process efficiency and quality This book presents current research in the study of business process modelling including BPM and automation with general and domain specific languages conceptualising analysing and communicating the business model and context aware methods for process modelling **Business Process Modelling** Bernd Scholz-Reiter,Eberhard Stickel,2012-12-06 Today information is considered to be a valuable company resource that has to be planned coordinated and documented Business processes need to be treated in the same way Moreover significant potential for improvement may lie in optimizing these processes As a consequence information should be collected and suitably modelled and business processes need to be analyzed and redesigned Business modelling usually deals with different views of a company The data view is concerned with information structures the functional view analyzes tasks and procedures the process view links different functions by analyzing workflows and events triggering them while the organizational view is concerned with the structure of the company under investigation These views should not however be treated in an isolated manner The key to success is to deal with the interaction between them Hence business modelling should provide an integrated view of all relevant informational functional organizational and workflow issues One of the most

significant problems results from the complexity of the modelling task Modelling tools are required and are to be used in combination with other close methodologies and applications Suitable generalizations and or new methodologies need to be developed

Subject-Oriented Business Process Management Albert Fleischmann, Werner Schmidt, Robert Singer, Detlef Seese, 2011-08-12 This book constitutes the thoroughly refereed post proceedings of the Second International Conference on Subject Oriented Business Process Management S BPM ONE 2010 held in Karlsruhe Germany in October 2010 The 10 revised full papers presented together with one invited keynote paper and three panel statements were carefully reviewed and selected from initially 17 submissions The papers present innovative cross disciplinary ideas concepts methods tools and results in foundational and applied research as well as studies on the realization of such innovations in the real world all based on the promising new paradigm of subject oriented business process management

The Process Alexander Grosskopf, Gero Decker, Mathias Weske, 2009

Process Modelling Bernd Scholz-Reiter, Hans-Dietrich Stahlmann, Arnim Nethe, 2012-12-06 A process model is very often used for system analysis design and management in various application areas Using a process model has the advantage that it has only to be as precise as necessary within the parameters of the individual field of application whereas the precision externally is less important This makes process modeling easier and open for structuring The contributions deal with different approaches to process modelling especially in the areas of business process modelling logistics and production processes and water systems

Business Process Management Mathias Weske, 2024-07-13 In this book Mathias Weske details the complete business process lifecycle from process modeling to process enactment and process evaluation After starting with the general foundations and abstractions in business process management he introduces process modeling languages and process choreographies as well as formal properties of processes and data Eventually he presents both traditional and advanced business process management architectures covering for example workflow management systems service oriented architectures and data driven approaches The 4th edition of his book contains significant updates including a new section on directly follows graphs that play a crucial role in process mining In addition the core of declarative process modeling is introduced The increasingly important role of data in business processes is addressed by a new section on data objects and data models in the data and decision chapter To cover a recent trend in process automation the enterprise systems architecture chapter now includes a section on robotic process automation Mathias Weske argues that all communities involved need to have a common understanding of the different aspects of business process management Hence his textbook is ideally suited for classes on business process management information systems architecture and workflow management alike The accompanying website [www bpm book com](http://www.bpm-book.com) contains further information and additional teaching material

Handbook of Research on Business Process Modeling Cardoso, Jorge, van der Aalst, Wil, 2009-04-30 This book aids managers in the transformation of organizations into world class competitors through business process applications Provided by publisher

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