



Enterprise Interoperability Enterprise Interoperability

**Keith Popplewell, Jenny
Harding, Chalmeta Ricardo, Raul Poler**

Enterprise Interoperability Enterprise Interoperability:

Enterprise Interoperability V Raúl Poler, Guy Doumeingts, Bernhard Katzy, Ricardo Chalmeta, 2012-02-24 Within a scenario of globalised markets where the capacity to efficiently cooperate with other firms starts to become essential in order to remain in the market in an economically socially and environmentally cost effective manner it can be seen how the most innovative enterprises are beginning to redesign their business model to become interoperable This goal of interoperability is essential not only from the perspective of the individual enterprise but also in the new business structures that are now emerging such as supply chains virtual enterprises interconnected organisations or extended enterprises as well as in mergers and acquisitions Composed of over 40 papers Enterprise Interoperability V ranges from academic research through case studies to industrial and administrative experience of interoperability The international nature of the authorship continues to broaden Many of the papers have examples and illustrations calculated to deepen understanding and generate new ideas The I ESA 12 Conference from which this book is drawn was organized by Polytechnic University of Valencia on behalf INTERVAL and the European Virtual Laboratory for Enterprise Interoperability INTEROP VLab and sponsored by the International Federation for Information Processing IFIP and the International Federation of Automatic Control IFAC A concise reference to the state of the art in systems interoperability Enterprise Interoperability V will be of great value to engineers and computer scientists working in manufacturing and other process industries and to software engineers and electronic and manufacturing engineers working in the academic environment Enterprise Interoperability: Smart Services and Business Impact of Enterprise Interoperability Martin Zelm, Frank-Walter Jaekel, Guy Doumeingts, Martin Wollschlaeger, 2018-10-25 The ability of future industry to create interactive flexible and always on connections between design manufacturing and supply is an ongoing challenge affecting competitiveness efficiency and resourcing The goal of enterprise interoperability EI research is therefore to address the effectiveness of solutions that will successfully prepare organizations for the advent and uptake of new technologies This volume outlines results and practical concepts from recent and ongoing European research studies in EI and examines the results of research and discussions cultivated at the I ESA 2018 conference Smart services and business impact of enterprise interoperability The conference designed to encourage collaboration between academic inquiry and real world industry applications addressed a number of advanced multidisciplinary topics including Industry 4 0 Big Data the Internet of Things Cloud computing ontology artificial intelligence virtual reality and enterprise modelling for future smart manufacturing Readers will find this book to be a source of invaluable knowledge for enterprise architects in a range of industries and organizations Enterprise Interoperability Guy Doumeingts, Jörg Müller, Gérard Morel, Bruno Vallespir, 2007-08-24 Composed of over 50 papers Enterprise Interoperability ranges from academic research through case studies to industrial and administrative experience of interoperability The international nature of the authorship continues to broaden Many of the papers have examples and

illustrations calculated to deepen understanding and generate new ideas This is a concise reference to the state of the art in software interoperability

Enterprise Interoperability IV Keith Popplewell, Jenny Harding, Chalmers Ricardo, Raul Poler, 2010-05-30 Enterprise Interoperability is the ability of an enterprise or organisation to work with other enterprises or organisations without special effort It is now recognised that interoperability of systems and thus sharing of information is not sufficient to ensure common understanding between enterprises Knowledge of information meaning and understanding of how it is to be used must also be shared if decision makers distributed between those enterprises in the network want to act consistently and efficiently Industry's need for Enterprise Interoperability has been one of the significant drivers for research into the Internet of the Future EI research will embrace and extend contributions from the Internet of Things and the Internet of Services and will go on to drive the future needs for Internets of People Processes and Knowledge

Enterprise Interoperability II Ricardo Jardim-Gonçalves, Jörg Müller, Kai Mertins, Martin Zelm, 2007-08-29 Interoperability the ability of a system or a product to work with other systems or products without special effort from the user is a key issue in manufacturing and industrial enterprise generally It is fundamental to the production of goods and services quickly and at low cost at the same time as maintaining levels of quality and customisation Composed of over 90 papers Enterprise Interoperability II ranges from academic research through case studies to industrial and administrative experience of interoperability The international nature of the authorship continues to broaden Many of the papers have examples and illustrations calculated to deepen understanding and generate new ideas A concise reference to the state of the art in software interoperability Enterprise Interoperability II will be of great value to engineers and computer scientists working in manufacturing and other process industries and to software engineers and electronic and manufacturing engineers working in the academic environment

Enterprise Interoperability VI Kai Mertins, Frédéric Bénaben, Raúl Poler, Jean-Paul Bourrières, 2014-02-19 In 2007 INTEROP VLab defined Enterprise Interoperability as the ability of an enterprise system or application to interact with others at a low cost with a flexible approach Enterprise Interoperability VI brings together a peer reviewed selection of over 40 papers ranging from academic research through case studies to industrial and administrative experience of interoperability It shows how in a scenario of globalised markets the capacity to cooperate with other firms efficiently becomes essential in order to remain in the market in an economically socially and environmentally cost effective manner and that the most innovative enterprises are beginning to redesign their business model to become interoperable This goal of interoperability is vital not only from the perspective of the individual enterprise but also in the new business structures that are now emerging such as supply chains virtual enterprises interconnected organisations or extended enterprises as well as in mergers and acquisitions Establishing efficient and relevant collaborative situations requires managing interoperability from a dynamic perspective a relevant and efficient collaboration of organizations might require adaptation to remain in line with potentially changing objectives evolving resources and unexpected events for example Many

of the papers contained in this the seventh volume of Proceedings of the I ESA Conferences have examples and illustrations calculated to deepen understanding and generate new ideas The I ESA 14 Conference is jointly organised by Ecole des Mines Albi Carmaux on behalf of PGSO and the European Virtual Laboratory for Enterprise Interoperability INTEROP VLab and supported by the International Federation for Information Processing IFIP A concise reference to the state of the art in systems interoperability Enterprise Interoperability VI will be of great value to engineers and computer scientists working in manufacturing and other process industries and to software engineers and electronic and manufacturing engineers working in the academic environment

Enterprise Interoperability VIII Keith Popplewell, Klaus-Dieter Thoben, Thomas Knothe, Raúl Poler, 2019-04-25 This book gathers the proceedings of the I ESA 18 Conference which was organised by the Fraunhofer IPK on behalf of the European Virtual Laboratory for Enterprise Interoperability INTEROP VLab and the DFI and was held in Berlin Germany in March 2018 It presents contributions ranging from academic research and case studies to industrial and administrative experiences with interoperability that show how in a globalised market scenario where the ability to cooperate with other organisations efficiently is essential in order to remain economically socially and environmentally cost effective the most innovative digitised and networked enterprises ensure that their systems and applications can interoperate across heterogeneous collaborative networks of independent organisations Furthermore the content addresses smart services and the business impact of enterprise interoperability on organisations Many of the papers in this ninth volume of the I ESA Conference proceedings include examples and illustrations to help deepen readers understanding and generate new ideas Offering a detailed guide to the state of the art in systems interoperability the book will be of great value to all engineers and computer scientists working in manufacturing and other process industries and to software engineers and electronic and manufacturing engineers working in academic settings

Enterprise Interoperability Bernard Archimède, Bruno Vallespir, 2017-07-05 Interoperability of enterprises is one of the main requirements for economical and industrial collaborative networks Enterprise interoperability EI is based on the three domains architectures and platforms ontologies and enterprise modeling This book presents the EI vision of the Grand Sud Ouest pole PGSO of the European International Virtual Laboratory for Enterprise Interoperability INTEROP VLab It includes the limitations concerns and approaches of EI as well as a proposed framework which aims to define and delimit the concept of an EI domain The authors present the basic concepts and principles of decisional interoperability as well as concept and techniques for interoperability measurement The use of these previous concepts in a healthcare ecosystem and in an extended administration is also presented

Enterprise Interoperability Raúl Poler, Marten van Sinderen, Raquel Sanchis, 2009-09-29 This book constitutes the proceedings of the Second IFIP WG 5.8 International Workshop on Enterprise Interoperability IWEI 2009 held in Valencia Spain in October 2009 The 11 contributions included in the volume were carefully reviewed and selected from 25 submissions The papers are representative of the current research activities in the

area of enterprise interoperability They cover a wide range of enterprise interoperability issues from foundational theories frameworks architectures methods and guidelines to project results and case studies

Enterprise Interoperability

Matthieu Lauras, Martin Zelm, Bernard Archimède, Frédérick Benaben, Guy Doumeignats, 2015-01-05 Enterprises and organizations of any kind embedded in today's economic environment are deeply dependent on their ability to take part in collaborations Consequently it is strongly required for them to get actively involved for their own benefit in emerging potentially opportunistic collaborative enterprise networks The concept of interoperability has been defined by INTEROP VLab as The ability of an enterprise system or application to interact with others at a low cost in a flexible approach Consequently interoperability of organizations appears as a major issue to succeed in building on the fly emerging enterprise networks The International Conference on Interoperability for Enterprise Systems and Applications I ESA 2014 was held under the motto interoperability for agility resilience and plasticity of collaborations on March 26-28 2014 and organized by the Ecole des Mines d'Albi Carmaux France on behalf of the European Laboratory for Enterprise Interoperability INTEROP VLab On March 24-25 co-located with the conference eight workshops and one doctoral symposium were held in four tracks complementing the program of the I ESA 14 conference The workshops and the doctoral symposium address areas of greatest current activity focusing on active discussions among the leading researchers in the area of Enterprise Interoperability This part of the conference helps the community to operate effectively building co-operative and supportive international links as well as providing new knowledge of on-going research to practitioners The workshops and doctoral symposium aimed at exploiting new issues challenges and solutions for Enterprise Interoperability EI and associated domains of innovation such as Smart Industry Internet Of Things Factories of the Future EI Applications and Standardisation These proceedings include the short papers from the I ESA 14 workshops and the doctoral symposium The book is split up into 9 sections one for each workshop and one for the doctoral symposium All sections were organized following four tracks 1 EI and Future Internet Factory of the Future 2 EI Application Domains and IT 3 EI Standards 4 EI Doctoral Symposium For each section a workshop report is provided summarizing the content and the issues discussed during the sessions The goal of the first track was to offer a discussion opportunity on interoperability issues regarding the use of Internet of Things on manufacturing environment Workshops 1 and 3 on one hand and regarding the potential of innovation derived from the use of digital methods architectures and services such as Smart Networks Workshops 2 and 4 on the other hand The second track focused on particular application domains that are looking for innovative solutions to support their strong collaborative needs Thus the track developed one workshop on the use of EI solution for Future City Logistics Workshop 5 and one on the use of EI solutions for Crisis Disaster Management Workshop 6 The third track studied the recent developments in EI standardization Two workshops were dedicated to this issue The first one has proposed to focus on the management of standardization Workshop 8 and the second one has chosen to work on the new knowledge on standardization developments

in the manufacturing service domain Workshop 9 The last track the doctoral symposium presented research results from selected dissertations The session discussed EI knowledge issues notably in terms of gathering through social networks or Internet of Things and of exploitation through innovative decision support systems *Enterprise Interoperability* Martin Zelm, Raquel Sanchis, Raul Poler, Guy Doumeingts, 2012-12-17 In a fast changing world governed by innovative Enterprise Services and the Future Internet the issue of Enterprise Interoperability is no longer limited to the interoperation of systems within a single company but has become a much greater multi view issue of interoperability throughout a Network of Enterprises This book contains the proceedings of 13 workshops presented as short papers and discussions held at each workshop The workshops were co located with the I ESA 12 Conference organized by the Polytechnic University of Valencia Spain Complementary to the conference program the workshops aimed at exploiting new issues challenges and solutions for Enterprise Interoperability The scope of the workshops spanned a wide range of interoperability issues in Service Science and Innovation Model Driven Interoperability Service Oriented Architectures Factories of the Future Enterprise Networks and Management SME Aspects and Standards Knowledge Sharing in the Integrated Enterprise Peter Bernus, Mark Fox, 2005-09-20 Enterprise Architects in their endeavor to achieve Enterprise Integration have limited guidance on how best to use Enterprise Models and Modeling Tools to support their practice It is widely recognized that the practice of engineering enterprises needs a number of models but how to maintain the relation between these models with ease is still a problem Model interoperability is an issue on multiple counts How to interchange models between enterprise modeling tools How to maintain the interdependencies between models whether they describe the enterprise on the same level but from different points of view or from the same point of view but on different levels of abstraction and granularity How to maintain a coherent and evolving set of enterprise models in support of continuous change processes How to use and reuse enterprise models as a knowledge resource The answers to these questions are of great importance to anyone who is implementing ISO9001 2000 requirements whether through using enterprise architecture practice or not although it can be argued that a well executed architecture practice should satisfy ISO9001 without additional effort This volume attacks the problem on three fronts 1 Authors working in international standardisation and tool development as well as in enterprise modeling research present the latest developments in semantic integration 2 Authors who are practitioners of or conducting active research in enterprise architecting methodologies give an account on the latest developments and strategic directions in architecture frameworks and methodologies 3 Authors who use or develop information integration infrastructures present best practice and future trends of this aspect of enterprise integration Chapters of this book include contributions to the International Conference on Enterprise Integration and Modelling Technology ICEIMT 04 and those presented at the Design of Information Infrastructure Systems for Manufacturing DIISM 04 Workshop While DIISM is traditionally oriented at supporting manufacturing practice the results have a far greater domain of applicability **Revolutionizing Enterprise**

Interoperability through Scientific Foundations Charalabidis, Yannis, Lampathaki, Fenareti, Jardim-Goncalves, Ricardo, 2014-02-28 This book offers information on the latest advancements and research for Enterprise Interoperability knowledge as well as core concepts theories and future directions Enterprise Interoperability Marten van Sinderen, Vincent Chapurlat, 2015-05-19 This book constitutes the proceedings of the 6th International IFIP Working Conference on Enterprise Interoperability IWEI 2015 held in N mes France in May 2015 The event was organized by the IFIP Working Group 5.8 on Enterprise Interoperability in co operation with INTEROP VLab and PGSO Pole Grand Sud Ouest from INTEROP Vlab The theme for IWEI 2015 was From Enterprise Interoperability Modelling and Analysis to Enterprise Interoperability Engineering The nine full four short and two industrial papers presented in this volume were carefully selected from 20 submissions The selection was based on a thorough review process in which each paper was reviewed by at least three experts in the field The papers are representative of the current research activities in the area of enterprise interoperability They cover a wide spectrum of enterprise interoperability issues including foundational theories frameworks architectures methods and guidelines and applications and case studies *Enterprise Interoperability* Martin Zelm, Marten van Sinderen, Luis Ferraira Pires, Guy Doumeingts, 2014-04-16 In a fast changing global economy governed by Enterprise Services and the Future Internet enterprises and virtual factories will self organize in distributed interoperable innovation Ecosystems where the issues of Enterprise Interoperability need to be solved in a multi view of information services and processes throughout Enterprise Networks The book constitutes the proceedings of five workshops co located with the Fifth IFIP Working Conference IWEI 2013 It contains the presented peer reviewed papers and summaries of the workshop discussions Complementing the IWEI Conference program the workshops aimed at exploiting new issues challenges and solutions for Enterprise Interoperability and Manufacturing Eco Systems The scope of the workshops spanned over a range of interoperability issues in Service Science and innovation Model Driven Service Engineering Architectures Service Modelling Languages reference ontology for manufacturing Case studies and tools particularly for SMEs Business IT alignment and related Standardization Contents 1 Model Driven Services Engineering Architecture MDSEA A Result of MSEE Project An Architecture for Service Modelling in Servitization Context MDSEA Y Ducq A Set of Templates for MDSEA D Chen 2 Interoperability to Support Business IT Alignment Report Workshop 2 I S Fan V Taratoukhine M Matzner Interoperability as a Catalyst for Business Innovation J H P Eloff M M Eloff M T Dlamini E Ngassam D Ras Process Oriented Business Modeling An Application in the Printing Industry A Malsbender K Ortbach R Plattfaut M Voigt B Niehaves A Comparative Study of Modelling Methodologies Using a Concept of Process Consistency E Babkin E Potapova Y Zelenova Maintenance Support throughout the Life Cycle of High Value Manufacturing Products Interoperability Issues A Fedotova V Taratoukhine Y Kupriyanov Using Enterprise Architecture to Align Business Intelligence Initiatives I S Fan S Warner Towards Enterprise Architecture Using Solution Architecture Models V Agievich R Gimranov V Taratoukhine J Becker 3

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Enterprise Interoperability III Kai Mertins, Rainer Ruggaber, Keith Popplewell, Xiaofei Xu, 2008-03-25 Interoperability the ability of a system or a product to work with other systems or products without special effort from the user is a key issue in manufacturing and industrial enterprise generally It is fundamental to the production of goods and services quickly and at low cost at the same time as maintaining levels of quality and customisation Composed of over 50 papers Enterprise Interoperability III ranges from academic research through case studies to industrial and administrative experience of interoperability The international nature of the authorship continues to broaden Many of the papers have examples and illustrations calculated to deepen understanding and generate new ideas A concise reference to the state of the art in software interoperability Enterprise Interoperability III will be of great value to engineers and computer scientists working in manufacturing and other process industries and to software engineers and electronic and manufacturing engineers working in the academic environment

Enterprise Interoperability Marten van Sinderen, Paul Oude Luttighuis, Erwin Folmer, Steven Bosems, 2013-03-22 This book constitutes the proceedings of the 5th International IFIP Working Conference on Enterprise Interoperability IWEI 2013 held in Enschede The Netherlands during March 27 28 2013 The theme for IWEI 2013 was Information Services and Processes for the Interoperable Economy and Society The 15 full papers presented in this volume were carefully selected from 35 submissions The selection was based on a thorough review process in which each paper was reviewed by at least three experts in the field The papers are representative of the current research activities in the area of enterprise interoperability and are grouped into six sections enterprise service interoperability enterprise interoperability in sectors interoperability methodology interoperability for

specific application types strategic and tactical aspects of enterprise interoperability and ontology based interoperability Two keynotes and an invited paper complete this volume

Enterprise Interoperability X Raúl Rodríguez-Rodríguez, Yves Ducq, Ramona-Diana Leon, David Romero, 2024-03-20 Enterprise Interoperability X presents contributions ranging from academic research and case studies to industrial and administrative experiences with interoperability These contributions help organizations to analyse and improve their products and processes in the face of the high degree of uncertainty in the current commercial environment and to predict their performance To this end the contributors exploit digital twin technology that integrates tools from the Internet of Things artificial intelligence and software analytics Enterprise interoperability necessarily arises from the processes required to make associated digital twins work together The book forms the proceedings of the I ESA 22 Conference which was organised by the Universidad Polit cnica de Valencia on behalf of INTERVAL and the European Virtual Laboratory for Enterprise Interoperability INTEROP VLab and was held in Valencia Spain in March 2022 Many of the papers in this eleventh volume of the Proceedings of the I ESA Conferences include examples and illustrations to help deepen readers understanding and generate new ideas Offering a detailed guide to the state of the art in systems interoperability the book will be of great value to all engineers and computer scientists working in manufacturing and other process industries and to software engineers and electronic and manufacturing engineers working in academic settings

Enterprise Interoperability VII Kai Mertins, Ricardo Jardim-Gonçalves, Keith Popplewell, João P. Mendonça, 2016-10-18 A concise reference to the state of the art in systems interoperability Enterprise Interoperability VII will be of great value to engineers and computer scientists working in manufacturing and other process industries and to software engineers and electronic and manufacturing engineers working in the academic environment Furthermore it shows how knowledge of the meaning within information and the use to which it will be put have to be held in common between enterprises for consistent and efficient inter enterprise networks Over 30 papers ranging from academic research through case studies to industrial and administrative experience of interoperability show how in a scenario of globalised markets where the capacity to cooperate with other organizations efficiently is essential in order to remain economically socially and environmentally cost effective the most innovative digitized and networked enterprises ensure that their systems and applications are able to interoperate across heterogeneous collaborative networks of independent organizations This goal of interoperability is essential not only from the perspective of the individual enterprise but also in the business structures that are now emerging such as complex collaborating networks of suppliers and customers virtual enterprises interconnected organisations or extended enterprises as well as in mergers and acquisitions Establishing efficient and relevant collaborative situations requires the management of interoperability from a dynamic point of view a relevant and efficient collaboration of organizations may require adaptation to remain in line with changing objectives evolving resources unexpected events etc Many of the papers contained in this the eighth volume of Proceedings of the I ESA Conferences have examples and

illustrations calculated to deepen understanding and generate new ideas The I ESA 16 Conference from which this book is drawn was organized by the Escola de Engenharia da Universidade do Minho on behalf of the European Virtual Laboratory for Enterprise Interoperability INTEROP VLab and Interop VLab Portuguese Pole

Agent-Based Technologies and Applications for Enterprise Interoperability Klaus Fischer, Jörg Müller, Renato Levy, 2012-03-09

The ATOP Agent Based Technologies and Applications for Enterprise Interoperability workshop series focuses on technologies that support interoperability in networked organizations on successful applications of these technologies and on lessons learned In particular ATOP brings together research combining ideas from MDA and SOA with agent technologies The ATOP 2009 and 2010 workshops were held at the AAMAS conferences in Budapest Hungary in May 2009 and in Toronto Canada in May 2010 The 11 papers presented here were carefully reviewed by three members of the international Program Committee and selected out of 25 contributions to the workshops The topics covered are modeling interoperable systems semantic approaches to enterprise interoperability and interoperable business processes and business interactions These papers are completed by an invited contribution reporting on OMG agent standardization The main goal was to collect approaches for the application of agent technologies in these areas Current trends in the development of agent technologies are compared with recent developments in service oriented and model driven system design with respect to their ability to solve interoperability problems

The book delves into Enterprise Interoperability Enterprise Interoperability. Enterprise Interoperability Enterprise Interoperability is an essential topic that must be grasped by everyone, from students and scholars to the general public. The book will furnish comprehensive and in-depth insights into Enterprise Interoperability Enterprise Interoperability, encompassing both the fundamentals and more intricate discussions.

1. The book is structured into several chapters, namely:
 - Chapter 1: Introduction to Enterprise Interoperability Enterprise Interoperability
 - Chapter 2: Essential Elements of Enterprise Interoperability Enterprise Interoperability
 - Chapter 3: Enterprise Interoperability Enterprise Interoperability in Everyday Life
 - Chapter 4: Enterprise Interoperability Enterprise Interoperability in Specific Contexts
 - Chapter 5: Conclusion
 2. In chapter 1, this book will provide an overview of Enterprise Interoperability Enterprise Interoperability. The first chapter will explore what Enterprise Interoperability Enterprise Interoperability is, why Enterprise Interoperability Enterprise Interoperability is vital, and how to effectively learn about Enterprise Interoperability Enterprise Interoperability.
 3. In chapter 2, the author will delve into the foundational concepts of Enterprise Interoperability Enterprise Interoperability. The second chapter will elucidate the essential principles that need to be understood to grasp Enterprise Interoperability Enterprise Interoperability in its entirety.
 4. In chapter 3, this book will examine the practical applications of Enterprise Interoperability Enterprise Interoperability in daily life. This chapter will showcase real-world examples of how Enterprise Interoperability Enterprise Interoperability can be effectively utilized in everyday scenarios.
 5. In chapter 4, this book will scrutinize the relevance of Enterprise Interoperability Enterprise Interoperability in specific contexts. This chapter will explore how Enterprise Interoperability Enterprise Interoperability is applied in specialized fields, such as education, business, and technology.
 6. In chapter 5, this book will draw a conclusion about Enterprise Interoperability Enterprise Interoperability. This chapter will summarize the key points that have been discussed throughout the book.
- This book is crafted in an easy-to-understand language and is complemented by engaging illustrations. This book is highly recommended for anyone seeking to gain a comprehensive understanding of Enterprise Interoperability Enterprise Interoperability.

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