

ebXML: Status, Research Issues, and Obstacles

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Abstract

Technologies and approaches in the field of Electronic Commerce are not mature enough in order to allow for their broad successful commercial application. Neither existing, successful approaches that are very much restricted to large companies, specific branches, and business domains, nor approaches just merging new technologies like Internet, WWW, and XML allow for scaling up electronic commerce by means of arbitrarily high numbers of partners. All these approaches lack substantial reflection and integration of business semantics as the basis of any electronic commerce partnership. ebXML is a world-wide initiative that tries to address the drawbacks of existing standards and approaches and has the potential to successfully deliver solutions to these problems. In this paper we address the status of ebXML, and identify open research issues to be solved in order to meet some of the obstacles on the way of a commercial application of ebXML.

1. Introduction

The field of Electronic Commerce obviously can be seen from different perspectives, including the following viewpoints:

One can perceive the field as a hype of new, not very well-understood approaches for doing business electronically, which generated the (timely limited) age of the .com New Economy. In this viewpoint one may come up with the simplified, data-centric formula: *Internet + WWW + XML + some XML vocabulary + some new business model = the new way of doing business*. Approaches that are based on this model are for example BizTalk [15], OAG [17], cXML [1]. Observing the performance of the New Economy recently it looks like that this model to some extent lacks some substantial components in order to be applied successfully by commercial means.

Given the fact that commercially successfully implemented standards like ANSI X12 (since 1979), EDIFACT (since 1987), and SWIFT (since 1973) for exchanging data to do business have already been

established long time ago, the field of Electronic Commerce could be seen as an area of nothing spectacular new, but as a remake of approaches trying to merge new technologies in order to scale up by means of businesses being able to participate in ad-hoc networks of partners performing business electronically. The simplified, data-centric formula for this could be: *EDIFACT concepts + XML + Internet + adapted existing business models = the new way of doing business*. In this model the only new aspect seems to be XML, a new way of organizing data compared to the way of organizing data by EDIFACT. A prominent example of such an approach is xCBL [2, 16] which is based on EDIFACT and ANSI X12. In 1999, due to the growing popularity of XML, United Nations Centre for Trade Facilitation and Electronic Business (UN/CEFACT) also started to look for an XML solution which should be compatible with existing EDIFACT to protect the huge investments taken world-wide.

UN/CEFACT's Techniques and Methodology Working Group (TMWG) was responsible for doing a feasibility study on using XML for B2B information transfer. The TMWG report on this subject rejected the idea of creating 'Yet Another XML Solution' by converting EDIFACT to XML. This decision was mainly based on the fact that a syntactical transformation would hardly solve any EDI problem, but would just add another e-business vocabulary to the XML world.

Following up data-centric approaches mentioned above one can identify approaches trying to include or focusing on process-centric methods, i.e. business processes are becoming a central focus of Electronic Commerce models. Examples of this model are RosettaNet [18] and Open-edi [13]. In fact, the TMWG report mentioned above actually recommended to build up on the Open-edi reference model by using business process modeling to define the business aspects and by using XML as key concept for the technological aspects of e-business transactions. Additionally, TMWG suggested to cooperate in the development of the solution with the IT-industry to combine UN/CEFACT's business know-how with the experience of leading XML experts. The steering committee of UN/CEFACT accepted the TMWG recommendation and found an IT-partner in the Organization for the Advancement of Structured Information Standards (OASIS) that shares the goal of

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Proceedings of First International Conference on Information and Communication Technology for Intelligent Systems: Volume 2 Suresh Chandra Satapathy, Swagatam Das, 2016-05-03 This volume contains 60 papers presented at ICTIS 2015 International Conference on Information and Communication Technology for Intelligent Systems The conference was held during 28th and 29th November 2015 Ahmedabad India and organized communally by Venus International College of Technology Association of Computer Machinery Ahmedabad Chapter and Supported by Computer Society of India Division IV Communication and Division V Education and Research This volume contains papers mainly focused on ICT and its application for Intelligent Computing Cloud Storage Data Mining Image Processing and Software Analysis etc **Advanced Information Systems Engineering** Johann Eder, Michele Missikoff, 2003-08-03 The refereed proceedings of the 15th International Conference on Advanced Information Systems Engineering CaiSE 2003 held in Klagenfurt Austria in June 2003 The 45 revised full papers presented together with 3 invited contributions were carefully reviewed and selected from 219 submissions The papers are organized in topical sections on XML methods and models for information systems UML Internet business and social modeling peer to peer systems ontology based methods advanced design of information systems knowledge knowledge management Web services data warehouses electronic agreements and workflow requirements engineering metrics and method engineering and agent technologies and advanced environments *Censorship, Surveillance, and Privacy: Concepts, Methodologies, Tools, and Applications* Management Association, Information Resources, 2018-10-05 The censorship and surveillance of individuals societies and countries have been a long debated ethical and moral issue In consequence it is vital to explore this controversial topic from all angles Censorship Surveillance and Privacy Concepts Methodologies Tools and Applications is a vital reference source on the social moral religious and political aspects of censorship and surveillance It also explores the techniques of technologically supported censorship and surveillance Highlighting a range of topics such as political censorship propaganda and information privacy this multi volume book is geared towards government officials leaders professionals policymakers media specialists academicians and researchers interested in the various facets of censorship and surveillance Knowledge Transformation for the Semantic Web Borys Omelayenko, Michel Klein, 2003 This guide covers main issues in transforming the vast majority of models to be used in the context of the semantic web XML schemas relational models UML diagrams RDF schemas and ontologies Different practical approaches are presented as well as discussions on some theoretical issues **Dictionary of XML Technologies and the Semantic Web** Vladimir Geroimenko, 2012-12-06 The emerging Second Generation Web is based entirely on XML and related technologies It is intended to result in the creation of the Semantic Web on which computers will be able to deal with the meaning semantics of Web data and hence to process them in a more effective and autonomous way This new version of the Web introduces a multitude of novel concepts terms and acronyms Purpose Scope and Methods This

dictionary is an effort to specify the terminological basis of emerging XML and Semantic Web technologies. The ultimate goal of this dictionary is even broader than just to define the meaning of new words; it aims to develop a proper understanding of these leading edge technologies. To achieve this, comprehensible definitions of technical terms are supported by numerous diagrams and code snippets, clearly annotated and explained. The main areas covered in this dictionary are:

- 1 XML syntax and core technologies such as Namespaces, Infoset and XML Schema
- 2 all the major members of the XML family of technologies such as XSLT, XPath and XLink
- 3 numerous XML based domain specific languages such as NewsML, News Markup Language
- 4 the concept and architecture of the Semantic Web
- 5 key Semantic Web technologies such as RDF, Resource Description Framework, RDF Schema and OWL, Web Ontology Language
- 6 Web services including WSDL, Web Services Description Language and SOAP, Simple Object Access Protocol

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Web Services, E-Business, and the Semantic Web Christoph Bussler, Maria E. Orlowska, Jian Yang, 2004-07-26

The 2nd Workshop on Web Services, E-Business and the Semantic Web (WES) was held during June 16-17, 2003 in conjunction with CAiSE 2003, the 15th International Conference on Advanced Information Systems Engineering. The Internet is changing the way businesses operate. Organizations are using the Web to deliver their goods and services, to find trading partners, and to link their existing, maybe legacy, applications to other applications. Web services are rapidly becoming the enabling technology of today's e-business and e-commerce systems and will soon transform the Web as it is now into a distributed computation and application framework. On the other hand, e-business as an emerging concept is also impacting software applications, the everyday services landscape, and the way we do things in almost each domain of our life. There is already a body of experience accumulated to demonstrate the difference between just having an online presence and using the Web as a strategic and functional medium in e-business, to business interaction, B2B, as well as marketplaces. Finally, the emerging Semantic Web paradigm promises to annotate Web artifacts to enable automated reasoning about them. When applied to e-services, the paradigm hopes to provide substantial automation for activities such as discovery, invocation, assembly, and monitoring of e-services. But much work remains to be done before realizing this vision.

Digital Eco-Systems Fernando Antonio Basile Colugnati, Lia Carrari Rodrigues Lopes, Saulo Faria Almeida Barretto, 2010-08-10. This book constitutes the thoroughly refereed post-conference proceedings of the Third International Conference on Digital Eco-Systems (OPAALS 2010) held in Aracaju, Sergipe, Brazil, in March 2010. The papers cover topics from Social Science, Computer Science, and from Natural Science. These include social networks, social technologies, digital ecosystems, knowledge management, context-aware situation, and digital ecosystems, Lie group analysis, constructive dynamical spaces, and interaction computing.

Semantic Web Technologies Archana Patel, Narayan C. Debnath, Bharat Bhushan, 2022-10-17. Semantic web technologies (SWTs) offer the richest machine-interpretable rather than just machine-processable and explicit semantics that are being extensively used in various domains and industries. This book provides a roadmap for semantic web

technologies SWTs and highlights their role in a wide range of domains including cloud computing Internet of Things big data sensor network and so forth It also explores the prospects of these technologies including different data interchange formats query languages ontologies Linked Data and notations The role of SWTs in epidemic Covid 19 e learning platforms and systems block chain open online courses and visual analytics in healthcare is described as well This book Explores all the critical aspects of semantic web technologies SWTs Discusses the impact of SWTs on cloud computing Internet of Things big data and sensor network Offers a comprehensive examination of the emerging research in the areas of SWTs and their related domains Provides a template to develop a wide range of smart and intelligent applications Includes latest applications and examples with real data This book is aimed at researchers and graduate students in computer science informatics web technology cloud computing and Internet of Things

Adaptive Technologies and Business Integration: Social, Managerial and Organizational Dimensions Cruz-Cunha, Maria Manuela, Conceicao Cortes, Bruno, Putnik, Goran

D., 2006-10-31 This book provides inter organizational aspects in business integration including managerial and organizational integration social integration and technology integration along with the resources to accomplish this competitive advantage Provided by publisher

Handbook of Research on P2P and Grid Systems for Service-Oriented Computing: Models, Methodologies and Applications Antonopoulos, Nick, Exarchakos, Georgios, Li, Maozhen, Liotta, Antonio, 2010-01-31 Addresses the need for peer to peer computing and grid paradigms in delivering efficient service oriented computing

Algorithms and Architectures for Parallel Processing Tianqing Zhu, Jin Li, Aniello Castiglione, 2025-02-16 The six volume set LNCS 15251 15256 constitutes the refereed proceedings of the 24th International Conference on Algorithms and Architectures for Parallel Processing ICA3PP 2024 held in Macau China during October 29 31 2024 The 91 full papers 35 short papers and 5 workshop papers included in these proceedings were carefully reviewed and selected from 265 submissions They focus on the many dimensions of parallel algorithms and architectures encompassing fundamental theoretical approaches practical experimental projects and commercial components and systems

Smart Intelligent Computing and Applications Suresh Chandra Satapathy, Vikrant Bhateja, Swagatam Das, 2018-11-04 The proceedings covers advanced and multi disciplinary research on design of smart computing and informatics The theme of the book broadly focuses on various innovation paradigms in system knowledge intelligence and sustainability that may be applied to provide realistic solution to varied problems in society environment and industries The volume publishes quality work pertaining to the scope of the conference which is extended towards deployment of emerging computational and knowledge transfer approaches optimizing solutions in varied disciplines of science technology and healthcare

Multiagent System Technologies Klaus Fischer, Elisabeth Andre, Ingo J. Timm, Ning Zhong, 2006-09-19 This book constitutes the refereed proceedings of the 4th German Conference on Multiagent Systems Technologies MATES 2006 co located with Net ObjectDays NoDe 2006 The 15 revised full papers presented were carefully reviewed and selected from 52

submissions The papers are organized in topical sections on agent communication and interaction applications and simulation agent planning agent oriented software engineering as well as trust and security **Integration of ICT in Smart Organizations** Mezgar, Istvan,2006-01-31 The book covers the state of the art concepts and methodologies of smart organization development featuring information and communication technologies Provided by publisher **New Frontiers in Mining Complex Patterns** Michelangelo Ceci,Corrado Loglisci,Giuseppe Manco,Elio Masciari,Zbigniew Ras,2020-05-13 This book constitutes the refereed post conference proceedings of the 8th International Workshop on New Frontiers in Mining Complex Patterns NFMCP 2019 held in conjunction with ECML PKDD 2019 in W rzburg Germany in September 2019 The workshop focused on the latest developments in the analysis of complex and massive data sources such as blogs event or log data medical data spatio temporal data social networks mobility data sensor data and streams **Semantic Enterprise Application Integration for Business Processes: Service-Oriented Frameworks** Mentzas, Gregoris,Friesen, Andreas,2009-09-30 This book provides methods that allow for access to corporate and customer data independent of where it resides Provided by publisher **Service-Oriented Computing - ICSOC 2007** Bernd Krämer,Kwei-Jay Lin,Priya Narasimhan,2007-08-30 This book constitutes the refereed proceedings of the Fifth International Conference on Service Oriented Computing ICSOC 2007 The 30 revised full papers and 14 short papers are organized in topical sections on service deployment business process design service discovery quality of service support testing and validation service assembly service properties service modeling SOA composition experience runtime governance and QoS and composite service support **Advanced Information Systems Engineering** ,2003 **Web Services, E-business, and the Semantic Web** ,2002

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