

Collaboration and Interoperability Support for Agile Enterprises in a Networked World: Emerging Scenarios, Research Challenges, Enabling Technologies

Manfred Reichert

▶ To cite this version:

Manfred Reichert. Collaboration and Interoperability Support for Agile Enterprises in a Networked World: Emerging Scenarios, Research Challenges, Enabling Technologies. 5th International Working Conference on Enterprise Interoperability (IWEI), Mar 2013, Enschede, Netherlands. pp.4-5, 10.1007/978-3-642-36796-0 2. hal-01474213

HAL Id: hal-01474213 https://inria.hal.science/hal-01474213

Submitted on 22 Feb 2017

HAL is a multi-disciplinary open access archive for the deposit and dissemination of scientific research documents, whether they are published or not. The documents may come from teaching and research institutions in France or abroad, or from public or private research centers. L'archive ouverte pluridisciplinaire **HAL**, est destinée au dépôt et à la diffusion de documents scientifiques de niveau recherche, publiés ou non, émanant des établissements d'enseignement et de recherche français ou étrangers, des laboratoires publics ou privés.



Collaboration and Interoperability Support for Agile Enterprises in a Networked World: Emerging Scenarios, Research Challenges, Enabling Technologies

Manfred Reichert

University of Ulm, 89069 Ulm, Germany manfred.reichert@uni-ulm.de

Abstract. The economic success of enterprises increasingly depends on their ability to react to changes in their environment in a quick and flexible way. Examples of such environmental changes include regulatory adaptations (e.g. introduction of Sarbanes-Oxley or Basel II), market evolution, altered customer behavior, process improvement, and strategy shifts. Companies have therefore identified business agility as a competitive advantage required for coping with business trends like increasing product and service variability, faster time-tomarket, and increasing division of labor along the supply chain. In particular, the agile enterprise should be able to quickly set up new business processes as well as to adapt existing ones. However, networked enterprises must not accomplish such business process changes independent from the interactions they have with their partners and customers; e.g., business contracts and business compliance rules must be ensured after business process changes as well. This keynote will discuss major research challenges to be tackled in this context. Further, it will present advanced methods, concepts and technologies enabling collaboration and interoperability support for the agile enterprise in a networked world.

Keywords: networked enterprises; collaboration; interoperability; agility; business process change, business process compliance

References

- 1. Reichert, M., Weber, B.: Enabling Flexibility in Process-Aware Information Systems: Challenges, Methods, Technologies, Springer, 2012
- Reichert, M., Rinderle-Ma, S., Dadam, P.: Flexibility in Process-aware Information Systems. LNCS Transactions on Petri Nets and Other Models of Concurrency, Special Issue on Concurrency in Process-aware Information Systems, LNCS 5460, Springer, Vol. 2, pp. 115-135, 2009
- 3. Dadam, P., Reichert, M.: The ADEPT Project: A Decade of Research and Development for Robust and Flexible Process Support Challenges and Achievements. Computer Science R & D, 23(2): 81-97.
- 4. Knuplesch, D., Reichert, M., Mangler, J., Rinderle-Ma, S., Fdhila, W.: Towards Compliance of Cross-Organizational Processes and their Changes. Proc BPM'12 Workshops, Tallinn, Estonia, 2012, LNBIP, Springer

2 Manfred Reichert

- 5. Fdhila, W., Rinderle-Ma, S., Reichert, M.: Change Propagation in Collaborative Processes Scenarios. Proc 8th IEEE Int'l Conf. on Collaborative Computing (CollaborateCom'12), Pittsburgh, US, 2012
- 6. Knuplesch, D., Pryss, R., Reichert, M.: Data-Aware Interaction in Distributed and Collaborative Workflows: Modeling, Semantics, Correctness. Proc 8th IEEE Int'l Conf. on Collaborative Comp (CollaborateCom'12), Pittsburgh, US, 2012
- 7. Rinderle, S., Wombacher, A., Reichert, M.: Evolution of Process Choreographies in DYCHOR. Proc. 14th Int'l Conf. on Coop Information Systems (CooplS'06), Montpellier, France, LNCS 4275, Springer, pp. 273-290
- 8. Rinderle, S., Wombacher, A., Reichert, M.: On the Controlled Evolution of Process Choreographies. Proc. 22nd Int'l Conf. on Data Engineering (ICDE'06), Atlanta, US, 2006, IEEE Comp Society Press, pp. #124.
- 9. Ly, L.T., Knuplesch, D., Rinderle-Ma, S., Goeser, K., Pfeifer, H., Reichert, M., Dadam, P.: SeaFlows Toolset Compliance Verification Made Easy for Process-aware Information Systems. Proc CAiSE'10 Forum Information Systems Evolution, Hammamet, Tunisia, 2010, LNBIP 72, Springer, pp. 76-91.
- Mutschler, B., Reichert, M., Bumiller, J.: Unleashing the Effectiveness of Process-oriented Information Systems: Problem Analysis, Critical Success Factors and Implications. IEEE Trans on Systems, Man, and Cybernetics (Part C), 38(3):280-291, 2008

Brief Biography

Manfred Reichert is professor at the University of Ulm, Germany and co-director of the Institute of Databases and Information Systems.

His major research interests are next generation process management technology (e.g., adaptive processes, process variability, data-driven and object-centric processes, mobile processes), service-oriented computing (e.g., service interoperability, service evolution), and advanced applications for flexible information systems (e.g., e-health and automotive engineering).

Together with Peter Dadam he pioneered the work on the ADEPT process management technology and he is co-founder of the AristaFlow GmbH. Manfred has been participating in numerous research projects in the BPM area and contributed more than 200 scientific papers on BPM-related topics. His book entitled "Enabling Flexibility in Process-Aware Information Systems" was published by Springer in September 2012. Manfred has been PC Co-Chair of the BPM'08, CoopIS'11, and EDOC'13 conferences and General Chair of the BPM'09 conference.