International Workshop on SOA Migration and Evolution (SOAME 2010)

Grace Lewis
Software Engineering Institute at
Carnegie Mellon University
Pittsburgh, PA, USA
glewis@sei.cmu.edu

Filippo Ricca
DISI, Universitá di Genova,
Genova, Italy
filippo.ricca@disi.unige.it

Andreas Winter
Software Engineering
University of Oldenburg
Oldenburg, Germany
winter@informatik.uni-oldenburg.de

Ulrike Steffens
and Matthias Postina
Software Engineering for
Business Information Systems
OFFIS - Institute for Information Technology
Oldenburg, Germany
ulrike.steffens|matthias.postina@offis.de

Abstract—For many enterprises, introduction and maintenance of service orientation is still a daunting task and there is often no distinct idea of how to approach respective projects.

Especially the migration of legacy systems functionality into a new service-oriented environment - the SOA enabling - is key to the success of SOA projects. Another challenge arises for enterprises having SOA already introduced. Here, the focus lies on maintaining and evolving existing SOA environments - SOA maintenance.

The SOAME workshop (soame2010.eu) brought together researchers and practitioners in these areas to present and discuss state-of-the-art techniques as well as real-world experiences.

I. WORKSHOP DESCRIPTION

In recent years, the perception of service-oriented architecture (SOA) has undergone a remarkable change. Today, SOA is no longer considered a technical solution combining web services over standardized interfaces and protocols. Instead, SOA is conceived as a conceptual approach in order to align enterprise IT systems with the business strategies and processes they are supposed to support. The notion of "service" as the lowest common denominator of business and IT seems to offer an adequate starting point for consolidating IT application landscapes according to business needs ([1], [2]). Combining services in ever new service choreographies promises a flexible, easily adaptable and thus sustainable IT support.

SOA success stories in large enterprises indicate that service orientation is an effective way to integrate legacy systems as reusable building blocks into a flexible enterprise architecture. Forward engineering approaches like in [2] have to be complemented by reengineering approaches like in [3]. Process engines have been installed on the top of this legacy layer and build up a flexible framework for service orchestration and process development. Content (services and processes) is growing fast in such environments, so evolution and maintenance of service-oriented architectures will be the challenge of the near future [4].

However, especially for small and medium sized enterprises, SOA is a far cry from being already implemented as mainstream. So strategies for initiating SOA in enterprises are still subject of interest. Reengineering and migration approaches have to be considered when legacy systems functionality is made available to be used inside workflow-engines. The SOAME workshop focuses on both subjects – SOA enabling by reusing legacy systems and SOA maintenance and evolution.

II. GOALS AND OBJECTIVES

The SOAME workshop brought together researchers and practitioners in the areas of SOA enabling and SOA maintenance to present and discuss state-of-the-art techniques as well as real-world experiences to stimulate further SOA engineering research activities. We aim to encourage the development of a broad community of interest in this area.

III. TOPICS FOR THE WORKSHOP

According to the SOA Research Taxonomy presented in [4] and developed in the International Workshops on a Research Agenda for Maintenance and Evolution of Service-oriented Systems (MESOA) ¹ the SOAME 2010 workshop² has focused on the engineering branch of the taxonomy to consolidate SOA engineering activities and elaborate further on the research agenda for this branch.

The MSI workshop series combined *MDD*, *SOA* and *IT* Management ³ and workshop results are indicating common ground in the fields of MDD and SOA.

In a nutshell, the MESOA workshop series has developed the research agenda for maintenance and evolution of serviceoriented systems, whereas the MSI workshop series has identified the need for model-driven techniques for SOA migration

¹ see www.sei.cmu.edu/workshops/mesoa/2009/

²see www.soame2010.eu

³see www.msi2009.de

and evolution. SOAME 2010 condensed the results of both areas and discussed them on a more technical basis.

The scope of SOAME 2010 included, but was not restricted to the following topics:

SOA Migration:

- Tools and methods for SOA migration
- Service and service component identification in legacy systems
- Service component extraction by reverse engineering
- Migration process models, roadmaps and transition architectures
- Model-driven techniques for SOA migration
- · Appraisal of migration potential of legacy systems
- Consideration of standard software in SOA migration
- Design principles and patterns for SOA migration
- Experience reports on SOA migration

SOA Maintenance and Evolution

- · Tools and methods SOA maintenance and evolution
- Tools for Service Lifecycle Management
- Change management in SOA environments
- Reference Models for SOA definition and evolution
- · Process Models for SOA evolution
- Evolution Patterns for SOA evolution
- Ensuring service level agreements
- Experience reports on SOA evolution

IV. ORGANIZATION

The SOAME 2010 workshop was held on March 15, 2010, right before the CSMR 2010 main conference as a full day workshop and has been supported by the Reengineering Work Group of the German Computer Society (GI-SRE).



With SOAME 2010, we organized a workshop in the real sense of the word. Thus, the event was not primarily focused on mere paper presentations but supplemented with many lifely moderated discussions around the subject of SOA migration and evolution.

The experienced organizers have succeeded in hosting various SOA workshops such as:

- SOA-Based Systems Maintenance and Evolution (SOAM)
- International Workshop on a Research Agenda for Maintenance and Evolution of Service-oriented Systems (MESOA)
- Workshop MDD, SOA und IT-Management (MSI)
- Workshop Software-Reengineering (WSR)

V. WORKSHOP PROGRAM COMMITTEE

We are honored to announce the following authorities as program committee for SOAME 2010:

- Ali Arsanjani, IBM Global Services, Maharishi University of Management, Fairfield, USA.
- João Paulo A. Almeida, Federal University of Esprito Santo, Brazil.
- Egidio Astesiano, DISI, Universitá di Genova, Italy.
- Leire Bastida, European Software Institute, Spain.
- Andrea De Lucia, Universitá di Salerno, Italy.
- Serge Demeyer, University of Antwerp, Belgium.
- Erdogan Dogdu, TOBB University of Economics and Technology, Turkey.
- Rainer Gimnich, IBM Frankfurt, Germany.
- Shihong Huang, Florida Atlantic University, USA.
- Rainer Koschke, University Bremen, Germany.
- Kostas Kontogiannis, National University Athens, Greece.
- Patricia Lago, VU University Amsterdam, The Netherlands.
- Marc Lankhorst, Novay, The Netherlands.
- Alessandro Marchetto, FBK-irst, Italy.
- Christof Momm, FZI, Germany.
- Ralf Reussner, University of Karlsruhe, Germany.
- Giuseppe Scanniello, Universitá Della Basilicata, Italy.
- Sibylle Schupp, Technical University Hamburg-Harburg, Germany.
- Dirk Slama, Inubit AG, Germany.
- Mike Smit, University of Alberta, Canada.
- Harry Sneed, Anecon GmbH, Austria.
- Eleni Stroulia, University of Alberta, Canada.
- Werner Teppe, Amadeus Germany, Germany.
- Norman Wilde, University of West Florida, USA.
- Johannes Willkomm, sd+m Research, Germany.
- Joost Visser, SIG Amsterdam, The Netherlands.

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