# ICSOC 2007 Workshop Proposal „2nd International SeMSoC Workshop – Business Oriented Aspects concerning Semantics and Methodologies in Service-oriented Computing"

Maximilian Ahrens, Manfred Hauswirth, Frank Leymann, Marten Schönherr

Deutsche Telekom Laboratories, Ernst-Reuter Platz 7, 10587 Berlin
Digital Enterprise Research Institute (DERI), Galway, Ireland
University of Stuttgart, Universitätsstraße 38, 70569 Stuttgart
University of Berlin, Franklinstr. 28/29, D-10587 Berlin

maximilian.ahrens@telekom.de, manfred.hauswirth@deri.org, leymann@iaas.uni.stuttgart.de, mschoenherr@sysedv.cs.tu-berlin.de

For more information visit: http://www.sysedv.tu-berlin.de/SemSoc

Abstract. In the last few years both scientists and practitioners have been discussing the issue of Service Oriented Computing (SOC). But facing the challenge of reconciling the business process requirements and the IT landscape especially in the design time of a SOA implementation, one needs to consider both methodological and technological aspects. On the one hand, methodologies are needed for integrating the business driven view and the technology driven perspective in one consistent approach. On the other hand, semantic technologies have recently emerged as a promising approach for reducing data and process heterogeneities and automating tasks within SOA and Business Process Management. Coping with these two aspects, the proposed workshop will bring together academia and industry to discuss solutions towards bridging the gap between business requirements and IT implementations.

## Workshop Motivation and Aim

In the last few years both scientists and practitioners have been discussing the issue of Service Oriented Architectures (SOA). Lately vendors of enterprise information systems presented first releases of their service enabled system architectures. From the business perspective the paradigm of service orientation promises more

flexibility by aligning business requirements and information technology functionalities.
It is widely recognized that SOC has brought BP management a step forward in respect to flexible and cost-effective implementation, especially for business processes across organization boundaries. However, many problems remain to be solved in order to achieve a feasible and realistic dynamic integration.
On the one hand methodologies help to integrate the business driven view and the technology driven perspective in one consistent approach. Semantics on the other side has been emerging as a key technology for reducing data and process heterogeneities and automating some tasks within application integration processes.
These two topics are combined in the SeMSoC workshop. It should cover business oriented methodological approaches as well as semantic approaches to business process management within a SOA.
As many researchers in the SOA domain follow the principles of design research, the exchange between practitioners and researchers will be of mutual interest.

## Description of the Workshop Topic and Focus

The proposed workshop deals with a business oriented view on semantics and methodologies in a SOA environment. Within this domain many technical as well as methodological challenges are open for research and discussion. Amongst other topics the following are to illustrate the topics of interest for the workshop.

- SOA Modelling Methodology:
  - SOA modelling procedure
  - Model types and their dependencies at different abstraction levels
  - Model-driven approaches
  - SOA modelling patterns
  - Integration of user interaction into existing models
  - Integrated modelling environments for modelling a SOA end to end
- SOA Management Methodologies
  - Managing the different levels of abstraction within the SOA modelling procedure
  - Role concepts: Who does what? Modelling on diverse layers requires different roles to be integrated.
  - SOA Evaluation Methodologies

- Semantics and Semantic Services for business process management (BPM)
  - Business process (BP) design and modelling
  - BP configuration and assembly
  - BP execution and monitoring
  - BP mining and analysis
  - BP management automation
  - BPM systems architecture
- Semantics and Semantic Services for (automated) BP engineering:
  - BP discovery
  - BP similarity and compatibility
  - BP integration (composition and mediation)
  - BP dynamic adaptation and planning
  - BP agility and extensibility
  - BP reliability and QoS
  - BP validation and verification
- Business Cases: Real life experience in bringing SOA concepts to enterprise IT systems.

## Workshop Format

The workshop will consider two kinds of submissions short/position papers and regular papers. The submitted papers will be limited to 6 pages for short/position papers and to 12 pages for regular papers and should be formatted in Springer's LNCS style. The workshop will be a full day workshop where up to 10 papers are expected to be accepted.

## Organization Committee

Marten Schönherr, Technical University of Berlin
Maximilian Ahrens, Deutsche Telekom Laboratories
Branimir Wetzstein, University of Stuttgart
Thorsten Scheibler, University of Stuttgart
Sami Bhiri, DERI