



## **Summary of the ASG PhD Session at Net.ObjectDays 2005**

ASG Dissemination  
27 September 2005

ASG PhD Session took place during the Net.ObjectDays in Erfurt, on the 22th September. This session was entirely devoted to the outcomes of the ASG project. The presenters were PhD students taking part in the ASG PhD Programme organized by C-D component. As the goal of the ASG project is to create a proof-of-concept of an open platform for adaptive service discovery, composition, creation and enactment, it deals with very interesting scientific as well as technological challenges. The topics discussed during the session covered widely understood Semantic Web Services and aspects connected with them. The presenters talked about the major scientific as well as technological problems and issues that they met while working in the ASG project or on their PhD thesis. The session was very rich in fruitful discussions - not only the audience learned something new about the problems presented by the speakers but also the authors received a feedback and perhaps new ideas on how to address the problems in question.

The ASG PhD session was divided into two parts. During the first part, the audience heard four presentations conducted by Steffi Donath, Lev Olkhovich, Dominik Zyskowski and Ioan Toma.

Steffi Donath is a PhD student at the University of Leipzig, Germany. She spoke about Semantic Service Specifications, which provide a semantic description of a service, allowing C-2 component for generation of plan of a composite service. The main issue addressed in her presentation was the “Automatic Creation of Semantic Service Specifications”.

Having a reliable service description, including values of QoS parameters of a service, is a must for a proper service selection. They values of QoS parameters can be of course computed on the basis of historical service execution, but the problem begins when there is no execution data available. A solution to this problem may be an idea presented by Lev Olkhovich, a PhD student at the St. Petersburg State University, Russia. His talk was devoted to the subject “Measuring QoS-related Parameters of Business Processes Using Partly-Emulated Execution Environment”.

There are a few initiatives concerning the semantic service description. Which one is the best suited to the ASG needs, and what are the challenges we have to meet regarding the description of non-functional parameters, the audience could find out during the presentation of Dominik Zyskowski, a PhD student at the Poznań University of Economics, Poland. He presented the article written by his colleague Marek Kowalkiewicz – “Current challenges in non-functional service description - state of the art and discussion on research results”.

The last speaker – Ioan Toma, a PhD student from the University of Innsbruck, Austria presented “How to Model and Reason with Ontologies and Services Descriptions” using WSMO and Flora.

After the break, there were two more presenters: Andre Ludwig and Thomas Hering.

Andre Ludwig (a PhD student at the University of Leipzig) gave a first insight into the author's research of creating precise, resource-specific, composite service level agreements (SLAs) in heterogeneous service grid environments using modelling and generative mechanisms for contract composition.

Thomas Hering, also a PhD student from the University of Leipzig, presented the ASG context of service creation and suggested a process that could be used in order to generate services on-demand – “The Design of a Service Creation Process from State-of-the-art Engineering Approaches”. Since the creation process was designed bearing in mind a number of state-of-the-art software engineering paradigms and software architecture approaches such as component based software development, domain-specific languages, software product lines, model driven development etc., those paradigms and approaches were also introduced and explained briefly.