

# Web Services Agreement-based Resource Negotiation in UNICORE\*

M. Riedel, V. Sander, P. Wieder  
Central Institute of Applied Mathematics  
Research Centre Jülich  
D - 52425 Jülich, Germany

J. Shan  
Nat. High Performance Computing Center  
Univ. of Science and Technology of China  
230027 Hefei, China

## Abstract

*Service Level Agreements provide the foundation to negotiate for a distinct Quality of Service level between the provider and the consumer of a service. Since the Grid community is adopting concepts of Service-Oriented Architectures and Web Services are capturing their space within the Grid landscape, resource management within Grids increasingly evolves towards the management of resources represented as services. To make allowance for this the Global Grid Forum develops the Web Services Agreement specification to support standardised creation and negotiation of guarantees related to services. This paper illustrates the integration of a Web Services Agreement-based resource management framework into the UNICORE Grid system, a development motivated by the system's transition towards a service-oriented Grid and the limitations of the current solution.*

**Keywords.** *SLA, SOA, UNICORE, UniGrids, Web Services, WS-Agreement*

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\*This work is partially funded by the UniGrids project under EC grant, duration: July 2004 - June 2006.