SLA Life Cycle Automation and Management for Cloud Services
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This talk gives a brief introduction into cloud computing and then focuses on the definition and management of SLAs (Service Level Agreements) throughout their life cycle. A framework and notation to define complex SLAs is proposed and illustrated by examples. For negotiating SLA properties between different stakeholders, a semi-automatic negotiation approach is introduced and evaluated. Finally, a monitoring framework for controlling SLAs and their fulfillment at runtime is presented together with selected performance results. The talk is concluded by an outlook towards future research challenges in the cloud computing domain.

Prof. Schill is a full professor for computer networks at TU Dresden, Germany. His major research interests are distributed systems and middleware, high performance communication and multimedia, and advanced teleservices such as teleteaching and teleworking. He holds a M.Sc. and a Ph.D. in Computer Science from the University of Karlsruhe, Germany, and received a Dr.h.c. from Universidad Nacional de Asuncion, Paraguay. Prof. Schill also worked with the IBM Thomas J. Watson Research Center, Yorktown Heights, New York, and has been involved in various industry cooperations. He is the author or co-author of a large number of publications on computer networking, including several books.