A Concept for QoS Integration in Web Services

M. Tian, A. Gramm, T. Naumowicz, H. Ritter, J. Schiller
Freie Universität Berlin, Institut für Informatik
Takustr. 9, D-14195 Berlin, Germany
{tian, gramm, naumowic, hritter, schiller}@inf.fu-berlin.de

Abstract

With the growing popularity of Web services, a general QoS support for Web services will play an important role for the success of this emerging technology. Unfortunately, current Web service environments do not offer comprehensive QoS support. In this paper, we present an approach that does not only enable the QoS integration in Web services, but also the selection of appropriate services based on QoS requirements regarding server and network performance. Furthermore, we present how application requirements regarding communication QoS are mapped onto the underlying QoS aware network at runtime, as well as how users can obtain real-time information about server performance in order to monitor the accomplishment of assured services, giving the user an instant QoS feedback.