

EINLADUNG

Informatik-Sonderkolloquium

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HIGHLY DEPENDABLE IP-BASED SERVICE PROVISIONING IN FUTURE MOBILE NETWORKS

Abstract:

With the deployment of 3rd generation wireless networks, another important step has been made towards the convergence of IP-based data networks and traditional telco networks. In this convergence process, requirements originally stemming from the telco world are now gaining increasing significance in the context of IP technology. In particular, and in the main focus of this talk, provisioning of highly available and highly dependable IP-based services is an important issue both from users' and operators' point of view.

The presentation starts with an overview on two different concepts for provisioning of highly dependable services, namely cluster solutions and distributed redundancy. These concepts are subsequently analyzed in detail for the application example of a SIP-based call control service (as deployed in the IP-based Multimedia Subsystem, IMS, which is part of the UMTS Release 5 architecture). The analysis is based on analytic models for response times and availability/reliability, complemented by measurements in an experimental prototype system. As the result of the analysis, a comparison of a set of performance metrics is obtained for the two different dependability concepts.

The presentation concludes with an outlook on current research problems associated with the development of high-dependability solutions in other mobile scenarios.

Die Präsentation des Vortrags erfolgt in deutscher Sprache unter Verwendung englischer Folien.