

## **KING - Komponenten für das mobile Internet der nächsten Generation**

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### **Abstract**

The KING project was started in October 2001 by Siemens Com/ICN, partly funded by BMBF, and with participation of the following Universities and Research Institutes:

- Fraunhofer-Gesellschaft, Institute for Communication Systems, Munich
- Fraunhofer-Gesellschaft, Institute for Open Communication Systems, Berlin
- University of Duisburg-Essen, Institute for Experimental Mathematics, Computer Network Technology Group
- University of Karlsruhe (TH), Institute of Telematics
- Technical University of Munich, Institute of Communication Networks
- University of Stuttgart, Institute of Communication Networks and Computer Engineering
- University of Würzburg, Institute of Computer Science, Department of Distributed Systems

The project set itself the goal to come up with a comprehensive solution for converged carrier-grade IP networks. Such networks will need to support a variety of services, ranging from high-quality interactive real-time services (e.g. for voice and video applications) to best effort-service as known in today's Internet. The term 'carrier-grade' refers to the properties that are expected of such a network:

- a high QoS for interactive real-time services, as well as high-value data services.
- a high resilience and fast recovery from failures, as well as other mechanisms that ensure availability comparable to existing telephone networks
- protection against accidental malfunctions as well as deliberate attempts to compromise network operation and integrity
- simple management, ease of operation and reduction of operational cost through automation of traffic engineering and management tasks

In this presentation a high-level overview of the KING project will be given, highlighting the KING architecture and the results achieved.

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