G-LAB PARTNER

National Platform for Future Internet Studies

Project name: German Lab (G-LAB)
Start date: October 1st, 2008 (Phase 1)
September 1st, 2009 (Phase 2)
Total funding: 12 Mio €
Webpage: http://www.german-lab.de

Phase 1 (6 partners)
- Establishing the experimental facility with approximately 170 nodes
- Studies of NGN mechanisms and algorithms, explore their testability on G-Lab exp. platform
- Duration: 3 years

Phase 2 (28 partners)
- Enhance the Phase 1 work packages
- Expand the experimental platform with e.g. sensor nodes
- participants: SMEs, industry, research centers, universities
- Duration: 3 years

CONTACT

Administration Board
Phuoc Tran-Gia (Project Coordinator)
University of Würzburg
Paul Müller (Technical Coordinator)
TU Kaiserslautern
Peter Domschitz
Alcatel-Lucent Deutschland AG
Marco Hoffmann
Nokia Siemens Networks GmbH & Co. KG
Tanja Zseby
Fraunhofer Fokus

Project Executing Organization
Folkmar Nilkes
Fabian Kohler
German Aerospace Center (DLR)

Foundation Contact
Volkmar Dietz
Federal Ministry of Education and Research (BMBF)

PROJECT DATA
Modern societies and economies depend more and more on the Internet whose foundations are based on mechanisms and algorithms that were developed in the 70s and 80s. New business and home applications require new features for which the Internet was never designed and are faced with security problems that reveal the architectural deficits of today’s Internet. The project G-Lab develops technologies for a reliable and secure network of the future.

**Mission**

New Internet services and applications make increasing demands on security, reliability, and quality of the networks. To cope with the growing demands, new architectures and protocols need to be developed on the conceptual level and tested in an experimental facility. G-Lab consists of two major fields of activities:

- Research studies of future Internet components
- Design and setup of experimental facilities

**Objectives**

The project partners develop a secure and reliable platform for applications and services. It aims at:

- providing an experimental platform for studies on mechanisms, protocols, and applications towards Future Internet;
- investigating the interdependency of theoretical studies and prototype development;
- cooperating with other NGI platforms.

G-Lab is part of the worldwide efforts to develop the foundations of a future Internet.

**Benefits**

The Internet is an integral part of an efficient society: virtual social meeting points, business processes in economies, education and advanced training, telemedicine and entertainment base upon the Internet. Similar to the road system and the power grid, the modern network infrastructure is the base of our wealth and essential to human basic needs for communication.