Call for Contributions – Deadline extended to August 1, 2011

NEC Laboratories Europe and the Institute of Communication Networks and Computer Engineering (IKR) of the University of Stuttgart invite you to a one-day workshop on the topic

Capacity Sharing

With the increasing amount of IP traffic in fixed and mobile access networks, the question how to share the available resources in a fair, efficient and demand-oriented way becomes more and more prevalent. With the variety of services one can find in today's Internet, the requirements in rate, data volume and latency differ strongly. To maximize resource utilization and, at the same time, provide satisfying performance to all users, application layer knowledge is needed. As different resource allocation and adaptation mechanisms already exist in MAC, transport and application layer, an integral consideration of the problem space is required.

In wireless networks, the problem is particularly relevant due to the inherently limited resources, which render a simple "throwing bandwidth at the problem" solution impossible. Because large over-provisioning factors are economically unfeasibly, similar questions on capacity sharing also arise in fixed access networks, such as high bandwidth passive optical networks or cable networks.

The objective of this workshop is to bring together stakeholders of mobile and fixed access networks, the classic Internet world and of the application and transport community. We solicit presentations on the state-of-the-art, results of ongoing research, open issues, trends and new ideas. We are especially looking forward to (possibly provocative) visionary presentations to foster a lively discussion about how to face the upcoming challenges in the future mobile Internet. Topics of particular interest include, but are not limited to

- Application-layer adaption for mobile services
- Transport layer solutions and possible interactions with cellular/fixed access networks
- Context-aware resource allocation & cross-layer adaptation
- QoE and fairness definitions, metrics and evaluation
- Data traffic characteristics in fixed and mobile Internet
- Economic aspects on capacity sharing and business models
- Similarities and differences of capacity sharing in mobile and fixed access networks
- Related standardization activities and projects

Workshop date:

October 13, 2011

Submission up to:

August 1 ~~July 15~~, 2011

Registration up to:

September 15, 2011

Workshop Location:

Stuttgart, Germany

Please inform the workshop organizers by email to CapacitySharingWS@ikr.uni-stuttgart.de about title and abstract (max. 1 page) of your planned presentation. The number of slots is limited. Deadline for contributions is July 15, 2011. Registration to the workshop is open until September 15, 2011. The workshop takes place **in Stuttgart on Thursday, October 13, 2011**.

For further information, please check our website or send a mail to the workshop organizers:

http://www.ikr.uni-stuttgart.de/CapacitySharingWS/

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