

## **Christer Åhlund**



Dr. Christer Åhlund received his MSc in Computer Science from Uppsala University and his PhD from Luleå University of Technology. Christer is now Associate Professor in Mobile Systems and Head of Division for Mobile Networking and Computing at LTU Skellefteå. His research is about IP mobility, ad-hoc networks, heterogeneous access networks and media distribution. He has been working in the Industry for 10 years as programmer, system engineer and project manager. Christer also hold an adjunct professor position at Sherbrooke University in Canada.

## **Next generation networks with multiple access technologies and session mobility**

### **Abstract**

Mobility is gaining a tremendous interest among Internet users and wireless access networks are increasingly being installed to enable mobile usage. Internet mobility requires solutions to move between access networks with maintained network connectivity. Seamless mobility in turn means that the experience using a service is unaffected while being mobile. Communication in next generation networks will use multiple access technologies, creating a heterogeneous network environment. Further, roaming between network service providers may take place. To enable mobile nodes to move between access networks within as well as between network service providers with minimal disruption, nodes should be able to maintain multiple active network connections. With the usage of multihomed nodes, seamless mobility can be achieved in already installed infrastructures, not providing mobility support. Mobility in heterogeneous access networks also requires network selections that scale for services. Beyond seamless mobility of devices, session mobility between devices is also an upcoming functionality to increase the usability of services. This talk will present the on-going research within these areas carried out in the mobile systems research group at LTU.