



Seminar

- Title:** OMF/Orbit -A Framework for Controlling Experiments and Managing Testbeds
- Speaker:** Dr. Max Ott, National ICT Australia, Australia
- Time:** 10am-11am, Tuesday, 9th March 2010
- Venue:** No. 1 Meeting Room, Shanghai Research Center for Wireless Communications, 7/F Information Building, 280 Linhong Road

Abstract:

This talk presents OMF, a control, measurement, and management framework for testbeds. It describes through some examples the versatility of OMF's current architecture and gives directions for federation of testbeds through OMF.

OMF is deployed on approx. 20 testbeds across the world, with ORBIT at Rutgers University being the most prominent one. OMF is also one of four frameworks participating in the NSF/GENI activities and specifically the WiMAX meso-scale testbed initiative. It also is deployed in various wireless related projects under the EU/FIRE initiative.

This talk will present the three pillars of OMF: 1) control of repeatable experiments; 2) efficient measurement collection, and 3) comprehensive management support for the testbed operator.

This talk specifically describes a comprehensive experiment description language that allows an experimenter to describe resource requirements and their configurations, as well as experiment orchestration. Researchers would thus be able to reproduce their experiment on the same testbed or in a different environment with little changes. Along with the efficient support for large scale experiments, the use of testbeds and support for repeatable experiments with tightly integrated measurement collection will allow the networking field to build a culture of cross verification and therefore strengthen its scientific approach.

Biography:

Dr Ott is a Research Group Leader in the Networked Systems Theme at NICTA since January 2006. His group is active in various international testbed activities, such as FIRE in Europe and GENI in the US. Before joining NICTA he co-founded Semandex, a pioneer provider of Content-Based Networks, a new generation of Enterprise Information Integration and Knowledge Management systems. He also holds a Research Professor appointment at WINLAB, Rutgers University, where he's responsible for the software architecture of the ORBIT testbed. He holds a Ph.D. from Tokyo University, Japan, and an M.S. from the Technical University, Vienna, Austria.



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