Converged and Optical Networks Workshop/DEMOS

10th / 11th October 2012

DEMOS SESSION

"FP7 Technology for the Social Benefit"

The Converged and Optical Network Workshop is a cluster activity comprising several research projects participating in the 7th Framework Program of the European Union. This Workshop presents the most relevant technologies under development highlighting the social benefits targeted by these research initiatives. Key technologies from the following FP7 projects will be presented publicly:

ACCORDANCE: "Converged Copper-Optical-Radio OFDMA-based access Network with high Capacity and Flexibility"

ACCORDANCE will highlighting (poster) the introduction of OFDMA (Orthogonal Frequency Division Multiple Access) into a Passive Optical Network (PON) architecture offering at the same time optical backhauling for wireless and copper-based networks.

Contact: jprat@tsc.upc.edu. Further information: www.ict-accordance.eu

CHRON: "Cognitive Heterogeneous Reconfigurable Optical Network"

CHRON will show (posters) how cognition can help in the operation of optical networks. In particular, cognitive techniques to solve the virtual topology design problem in reconfigurable optical networks and for the fast Quality of Transmission assessment will be presented.

Contact: tjimgar@delibes.tel.uva.es Further information: www.ict-chron.eu

FIVER: "Fully-Converged Quintuple-Play Integrated Optical-Wireless Access Architectures"

FIVER will showcase (technical demonstration) quintuple-play converged service provision including basic OFDM data, integrated WiMAX data, telephony, security and high-definition TV. Several key technologies developed in the project: Long-reach FTTH transmission employing an OFDM bundle following FSAN NG-2 directives, 4G radio-over-fibre wireless (including WiMAX and LTE), and HD TV service on UWB radio.

Participants will be presented to the technical principles of FIVER in a 30-min demonstration session including real transmission experiments. Key techno-economic aspects of the technology presented will be also addressed during the session.

Contact: rllorent@dcom.upv.es Further information: www.ict-fiver.eu

GEYSERS: "Generalised Architecture for Dynamic Infrastructure Services"

GEYSERS will show (video and poster) the main project results. There would be two demonstration activities: One will present the enhanced control plane developed in the project, while the other will present the Logical Infrastructure Composition Layer (LICL) developed in GEYSERS. The LICL is the layer in the GEYSERS architecture responsible of providing virtualized resources to the upper layers. It manages the physical infrastructure, abstracts it and creates slices of independent and isolated virtual infrastructures for the Virtual Infrastructure Operator (VIO).

Contact: bartosz.belter@man.poznan.pl Further information: www.geysers.eu

MAINS: "Metro Architectures enablINg Sub-wavelengths"

MAINS project proposes the combination of ring and mesh sub-wavelength switched metro

network technologies, fully controlled by an advanced control plane. A demonstration of the Control plane by remote access to MAINS testbed will be presented in the Workshop. Also, video and poster materials summarising MAINS project results will be also on display reporting the data and control plane solutions for metro networks designed and implemented in the project.

Contact: jpfpg@tid.es Further information: www.ist-mains.eu

ONE: "Towards Automated Interactions between the Internet and the Carrier-Grade Management Ecosystems"

ONE project will provide a poster and a video library showing the concepts and the results of and automated multi-layer service provisioning and restoration in the network. Demo will be shown over a video including multiple video libraries about various aspects of the project. The poster and video library will show the concepts and project results in a narrative way.

Contact: mohitc@gmail.com Further information: http://www.ict-one.eu/

STRONGEST: "Scalable, Tunable and Resilient Optical Networks Guaranteeing Extremely-high Speed Transport"

STRONGEST project defines network architectures for developing a scalable, flexible, resilient, energy efficient and cost-effective transport network. STRONGEST will demonstrate the MAINS-STRONGEST control plane interoperability and the MPLS/WSON control plane integration in the Workshop.

Contact: ricardo.martinez@cttc.es Further information: www.ict-strongest.eu

Organisation

(main contact) Roberto Llorente	**Sergi Figuerola**	**Dimitra Simeonidou**
Valencia Nanophotonics Technology. Center	i2CAT Foundation	University of Bristol
rllorent@ntc.upv.es	sergi.figuerola@i2cat.net	dimitra.simeonidou@bristol.ac.uk