

OFELIA Facility Now Publicly Available for Experiments

In August 2011, OFELIA announced the public availability for experiments of its European network facility based on OpenFlow technology. Any user accepting the usage policy is welcome to experiment on the OpenFlow-enabled testbed offered at five facilities in Europe. Usage of the OFELIA facility is provided as a free-of-charge best-effort service.

With this public offer, OFELIA concludes its first development phase by making five facilities in Ghent (Belgium), Berlin (Germany), Zurich (Switzerland), Colchester (UK), and Barcelona (Spain) available for experiments. In the next phase, OFELIA's facilities will be interconnected to a single network distributed across Europe. The connectivity between the islands will be based on Gigabit Ethernet tunnels. This second phase will then enable experiments spanning two or more islands.



For details please refer to the OFELIA website (<http://www.fp7-ofelia.eu/ofelia-facility-and-islands/how-to-experiment/>) and the related press release (<http://www.fp7-ofelia.eu/news-and-events/press-releases/ofelia-openflow-facility-now-open-for-experiments/>).

Welcome To New OFELIA Partners

On August 1 two new partners joined the OFELIA project. The new consortium members are: CNIT (Consorzio Nazionale Interuniversitario per le Telecomunicazioni, <http://www.cnit.it>) and CREATE-NET (www.create-net.org), both from Italy.

During the Open Call for extension that closed end of March 21 proposals were received. The winning two proposals were selected by independent reviewers. Both extend the project, but in different directions and will remain with us to the end of the project.

In the sub-project VeRTIGO (the new OFELIA work package WP8), the FlowVisor tool will be empowered with native Network Virtualization capabilities in order to provide enhanced flexibility in the setup of logical topologies. VeRTIGO will build on top of the previous experience obtained by the proposers with the implementation of a preliminary version of such an architecture (called ADVisor). In particular two different slicing mechanisms will be proposed and their performance benchmarked on both an OFELIA island as well as on the new OFELIA island in Trento, a facility that will be customized according to OFELIA project guidelines and integrated into OFELIA's federated testbed itself. The overall VeRTIGO architecture will integrate with the OFELIA control framework to allow users to create virtual topologies within all OFELIA islands.

VeRTIGO will be implemented by the new partner CREATE-NET.

The second sub-project EXOTIC (new work package WP9) aims at enhancing OFELIA by introducing addressing and routing solutions

to support Content-centric Networking (CCN) functionality, extending the typology of experiments that can be run on OFELIA, with focus on CCN functionality and applications. CCN is a new networking paradigm in which the network layer provides users with content, instead of providing communication channels between hosts, and is aware of such content.

EXOTIC establishes a strong trait d'union between OFELIA and the FP7 project CONVERGENCE (<http://www.ict-convergence.eu/>) improving scope and quality of the experimentation that CONVERGENCE can perform over the OFELIA facility and the take-up of the feedback provided by CONVERGENCE within OFELIA.

CONVERGENCE is designing a content-centric, publish-subscribe service model, based on a common container for any kind of digital data and will implement real-world tests.

As an additional contribution the new partner CNIT increases the physical extension of the OFELIA facility by adding two more islands in Italy, one in Rome and one in Catania.

Summer School Attracts High Interest

The joint PhD summer school of the OFELIA/CHANGE project scheduled for November 7-12 in Berlin after the Internet Measurement Conference (IMC) is getting closer.

We are happy to offer a scientifically competitive program containing presentations by well-known international experts. The tutorials cover topics such as Future Internet, (optical) network virtualization,

NetFPGAs and have the focus on OpenFlow as seen by researchers, hardware vendors, and network operators.

To foster discussion between PhD students and researchers, we organize a poster session where students present their research ideas and can receive valuable feedback. For registration, students had to submit a 2-page extended abstract until August 1. The fact that we have received 31 submissions from US, South America, and many different European countries, clearly shows the international visibility and high scientific quality of the OFELIA/CHANGE summer school. Currently, the students mutually review their abstracts. In addition, experienced researchers read the abstracts and provide constructive feedback to the PhD students.

Overall, we are looking forward to an exciting week in November with interesting discussions and many new insights.

More information is provided on the website: <http://changeofelia.info.ucl.ac.be/>

OFELIA is Present on Social Networks

In addition to the website, you are invited to visit and interact with OFELIA on Facebook and Twitter:

- Website: <http://www.fp7-ofelia.eu/>
- Facebook: "EU Project Ofelia" (<http://www.facebook.com/pages/EU-Project-Ofelia/107413556015535>)
- Twitter: @EU_OFELIA (https://twitter.com/#!/eu_ofelia)