WiSHFUL

Wireless **S**oftware and **H**ardware platforms for **F**lexible and **U**nified radio and network contro**L**

WIRELESS SOLUTION DEVELOPMENT

The WiSHFUL project aims to reduce the threshold for experimental validation of innovative wireless solutions in several ways. First, it offers open and free of charge access to a number of advanced wireless testbeds offering different wireless technologies such as IEEE 802.11, IEEE 802.15.4, LTE, DVB-T and SDR. It also guarantees support from skilled people. Next, it offers several software platforms that comprise data plane and control plane functionality for advanced and intelligent radio and network control. However, different wireless technologies and platforms can be very heterogeneous in terms of memory, processing capabilities, and supported operating systems and software. The software platforms offered by the WiSHFUL project come with a unified, technology-agonistic interface called a UPI or Unified Programming Interface. This UPI provides a uniform control interface that allows experimenters to focus on the network optimisation without the need to dig into complex hardware and software specifications for different technologies and platforms. Finally, WiSHFUL offers a portable testbed that can be deployed at any location allowing validation in the real world involving real users. The portable testbed offers the same functionality to experimenters as if they were running their experiments on a fixed testbed.

Wireless developers are very welcome to validate their innovative wireless solutions on one (or multiple) testbeds supported by WiSHFUL using the very flexible software platforms accessible through a unified interface. They can also receive funding via one of the Open Calls. Additionally, WiSHFUL has dedicated Open Calls for small and medium-size enterprises (SMEs), including unipersonal companies and individuals.

Ingrid MOERMAN imec

OPEN CALL 3

Open Call for Experiments and Extensions is NOW open!

Calls for experiments

Jan 15   Dec 15   Dec 16   Dec 17 →

Calls for extension
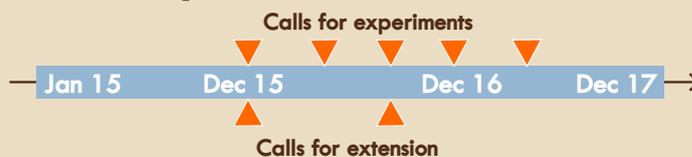
CALL FOR EXPERIMENTS: this track targets advanced solutions for controlling wireless networks using the WiSHFUL software platforms and unified programming interfaces (UPIs), and using the facilities and hardware supported by the WiSHFUL Consortium.

CALL FOR EXTENSIONS: this track targets (1) development of new software functionality for the currently supported WiSHFUL software and hardware platforms, (2) adding new hardware that is compliant with the WiSHFUL software platforms, at least supporting the WiSHFUL unified programming interfaces, or (3) integration of new Fed4FIRE compliant testbeds that offer WiSHFUL software platforms that are compliant with the WiSHFUL software platforms and its unified programming interfaces (UPIs).

PROPOSALS ARE DUE ON 28/10/2016

For more information check the http://www.wishful-project.eu/OpenCall3

Please visit http://www.wishful-project.eu/ or email contact@wishful-project.eu for further information

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EuCNC 2016 Athens

EuCNC'2016 is the 25th edition of a successful series of a technical conferences in the field of telecommunications, sponsored by the European Commission. The WiSHFUL Project participated with a booth at this exhibition.

NetFutures 2016 Brussels

WiSHFUL participated at the NetFutures 2016 conference in April. Capabilities of the Portable Testbed were demonstrated for the first time to the general public through several use cases. These included improving coexistence of heterogeneous wireless technologies that share the same spectrum such as IEEE 802.11 and IEEE 802.15.4e. The WiSHFUL software architecture enables real-time reconfiguration of wireless networks using unified control interfaces, cross-technology control, and management.

Plenary Meeting # 5

The 5th WiSHFUL plenary meeting took place from 10th to 12th of October 2016 in Gent, Belgium. It was attended by over 20 people from the Consortium. Several project-related items were discussed including: progress of showcases, the status and results from OC1 and OC2, future showcase planning, structure of deliverables, and partner work related responsibilities.

Several points about the WiSHFUL 2.0 Framework were also discussed including: status of implementation, stability and validation tests, examples, tutorials, documentation status online, future plans, and the intelligence framework. We also explored extending software and hardware that we can support based on the results of Extension Calls and consortium activities for the OC4 Experiments. The next plenary meeting is scheduled to be in Berlin from 23rd-25th of January 2017.

Consortium

Acknowledgment

Please visit http://www.wishful-project.eu/ or email contact@wishful-project.eu for further information