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Wireless Software and Hardware Platforms for Flexible and Unified Radio and Network Control



Many of the recent trends in the development of information systems, such as Industry 4.0 and the Tactile Internet, require innovative solutions in wireless communication, thus increasing the pressure to be able to quickly prototype and test potential solutions before creating market-mature products. The WISHFUL project aims to enable shorter development cycles by offering proper development and testing environments.

How does it work?

The WISHFUL project offers advanced test facilities for the experimental validation of end-to-end innovative wireless systems and solutions. WISHFUL develops, implements and prototypes a unified software architecture that can be leveraged to speed up the development time and reduce the costs of wireless solutions for different vertical markets.

Key achievements

Several showcases have been presented to exhibit the latest results of WISHFUL, including coexistence of heterogeneous wireless technologies, load and interference-aware MAC adaptation, efficient airtime management and infrastructure-initiated handover strategies. Results have shown that using the WISHFUL framework can enhance significantly the performance of supported wireless technologies and minimize the overhead of control implementation.

A portable Fed4FIRE enabled testbed has been designed and implemented based on OTS devices that will be used to exhibit the above showcases in various venues on-site.

The first Open Calls have been concluded with success, 26 proposals have been submitted in all 3 categories (Innovation by SMEs, Scientific Excellence, Extensions) and the final results will be announced soon. Keep looking at the project's website for future Open Calls and important dates.

How to get involved?

You can get involved in 3 ways. (1) start using the already existing WISHFUL facilities located at iMinds, TCD, TUB and RUTGERS. (2) follow our updates for new software releases, fork the software, try it and contribute feedback or improved code. (3) follow the upcoming Open Calls that will be launched throughout the project's lifecycle.

Project Facts

CALL: Collaborative Projects Call 1 - ICT11 | **EXECUTION:** From January 2015 to December 2017

COORDINATOR: Ingrid Moerman (iMinds)

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