



Wireless Software and Hardware platforms for Flexible and Unified radio and network control

Project Deliverable D3.3

First software development kit and toolset for radio control

Contractual date of delivery:	31-12-2015
Actual date of delivery:	23-12-2015
Beneficiaries:	iMinds, TCD, CNIT, TUB
Lead beneficiary:	CNIT
Authors:	Ilenia Tinnirello (CNIT), Pierluigi Gallo (CNIT), Domenico Garlisi (CNIT), Daniele Croce (CNIT), Peter Ruckebusch (IMINDS), Ingrid Moerman (IMINDS), Anatolij Zubow (TUB), Mikolaj Chwalisz (TUB), Nicholas Kaminski (TCD), Luiz DaSilva (TCD)
Reviewers:	Spilios Giannoulis (IMINDS)
Work package:	WP3 – Radio Control
Estimated person months:	see D3.2
Nature:	O
Dissemination level:	PU
Version:	1.0

Abstract:
 This deliverable reports the first release of the software development kit (SDK) and toolset for radio control. This is a companion deliverable of D3.2, which provides capabilities and description, while the present deliverable contains the SDK implementation.

Keywords:
 Software release, SDK, toolset, UPI_R, implementation.

First release of the toolset for radio control

WiSHFUL SDK for radio control includes the UPI_R implementation, the unified interface for controlling WiSHFUL programmable radio platforms and the WiSHFUL management and control engine through which an experimenter, using UPI_L and UPI_G, can coordinate UPI_R calls by providing time synchronization, remote procedure calls, immediate and scheduled execution. The WiSHFUL toolset is a set of software facilities for radio control including scripts, configuration facilities, as well as software for interacting with experiment control.

The source code implementing UPI_R and example showcases can be found in:

https://github.com/WirelessTestbedsAcademy/wishful_upis/

The documentation for the UPI_R can be found in:

http://wirelesstestbedsacademy.github.io/wishful_upis/upis.html#module-upis.upi_rn