

sybloTe

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Symbiosis of smart objects across IoT environments

From 2016-01-01 **to** 2018-12-31, ongoing project

Project details

Total cost: EUR 7 104 827,5	Topic(s): ICT-30-2015 - Internet of Things and Platforms for Connected Smart Objects
EU contribution: EUR 7 104 827,5	Call for proposal: H2020-ICT-2015 See other projects for this call
Coordinated in: Greece	Funding scheme: RIA - Research and Innovation action

Objective

Connected smart objects have invaded our everyday life across multiple domains, e.g. home with automation solutions, assisted living with sensors and wearables to monitor personal activities, smart transportation and environmental monitoring. IoT is evolving around a plethora of vertically isolated platforms, each specifically suited to given scenarios and often adopting non-standard, sometimes fully proprietary, protocols to control the variety of sensors, actuators and communication elements. sybloTe comes to evolve this fragmented environment and provides an abstraction layer for a unified control view on various IoT platforms and sensing/actuating resources. sybloTe designs and develops an IoT orchestration middleware capable of unified and secure access to physical and virtualized IoT resources; hierarchical and orchestrated discovery and control across multiple IoT platforms; federation of IoT controllers and resources for cooperative sensing/actuation tasks; seamless roaming of smart objects across smart spaces. sybloTe builds its orchestration middleware on top of existing standards for protocols and interfaces, plus a number IoT platforms both proprietary (i.e. developed by its industrial partners) and from open source (e.g. OpenIoT). This unique set of backgrounds and foreground can result in a significant step forward in horizontal integration and federation of IoT domains. Five use cases with real large scale deployments have been selected to validate our vision in representative smart spaces: home/residence, educational campus, stadium, mobility and yachting. Engagement with real users is key in our validation process. With its research, sybloTe can enable innovative business models for a large set of stakeholders of the IoT value chain, and particularly SMEs and new entrants in the IoT market. The consortium includes direct beneficiaries of these impacts, including small and large industry with IoT business and renowned research performers.

Coordinator

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EU contribution: EUR 1 445 875

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