



Projet FP7 – IOT6

Nom du projet	Universal Integration of the Internet of Things through an IPv6-based Service Oriented Architecture enabling heterogeneous components interoperability – IOT6
Call	ICT-2011.1.3 Internetconnected Objects
Type de projet	Collaborative project
Rôle de la HES-SO	Participant
Chercheur impliqué	Yann BOCCHI (HES-SO Valais Wallis)
Participants	Mandat International (Switzerland) – Coordinateur; Korea Advanced Institute of Science and Technology (Republic of Korea); Technische Universität Wien (Austria); Haute Ecole Spécialisée de Suisse occidentale (Switzerland); Ericsson D.O.O for Telecommunications (Serbia); Runmyprocess (France); University College London (United Kingdom); Universidad de Murcia (Spain); Université du Luxembourg (Luxembourg)
Budget global	4.14 mio euro / financement UE : 2.96 euro
Durée	36 mois, début le 1.10.2010
Résumé	<p>The IoT6 project aims at exploiting the potential of IPv6 and related standards (6LoWPAN, CORE, COAP, etc.) to overcome current shortcomings and fragmentation of the Internet of Things, in line with the CERP-IoT and EC recommendations. Its main challenges and objectives are to research, design and develop a highly scalable IPv6-based Service-Oriented Architecture to achieve interoperability, mobility, cloud computing integration and intelligence distribution among heterogeneous smart things components, applications and services. Its potential will be researched by exploring innovative forms of interactions such as:</p> <ul style="list-style-type: none">• Information and intelligence distribution.• Multi-protocol interoperability with and among heterogeneous devices.• Device mobility and mobile phone networks integration, to provide ubiquitous access and seamless communication.• Cloud computing integration with Software as a Service (SaaS).• IPv6 - Smart Things Information Services (STIS) innovative interactions.

The main outcomes of **IoT6** are recommendations on IPv6 features exploitation for the Internet of Things and an open and well-defined IPv6-based Service Oriented Architecture enabling interoperability, mobility, cloud computing and intelligence distribution among heterogeneous smart things components, applications and services - including with business processes management tools.

To achieve these ambitious goals, the consortium consists of seven international academic or research partners and two industrial partners that bring in expertise from complementary research areas such as IPv6, multi-protocol interoperability, routing protocols, security, SOAs, sensor networks, building automation, mobile phone networks, cloud computing, business processes and EPCIS/RFID. **IoT6** is supported by a large industry support group with renowned members, which will act as general advisors and will support the dissemination, exploitation and standardization activities.

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<http://www.iot6.eu>