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FESTIVAL

Federated Interoperable SmarT ICT Services Development and Testing Platform

The development of the Internet of Things (IoT) will have a strong impact on many aspects of society. Testbeds and experimental facilities are essential enablers to facilitate and validate the development of this vision. The IoT research testbeds have been built in Europe and Japan. FESTIVAL aims at leveraging those testbeds by a federation approach where experimenters can seamlessly perform their experiments and gain access to various software and hardware enablers provided in both regions. Facilitating the access to these testbeds to a large community of experimenters is a key asset to the development of an active community of application developers

How does it work?

The project's vision is to provide IoT experimentation platforms enabling interactions with physical environments and end-users, where experimenters can validate their Smart ICT service developments in various domains such as smart city, smart building, smart public services, smart shopping, participatory sensing, etc. FESTIVAL testbeds will connect the cyber world to the physical world, from large scale deployments at a city scale, to small platforms in lab environments and dedicated physical spaces simulating real-life settings. Those platforms will be connected and federated via homogeneous access APIs with an "Experimentation as a Service" (EaaS) model for experimenters to test their added value services.

Key objectives

(1) Exploit existing European and Japanese assets to enable IoT data collection and processing. (2) Enable federation and interoperability of the testbeds through a common API. (3) Build services and experimentation over the federated testbeds cutting across various application domains (energy, building, shopping…). (4) Offer access to external experimenters in both Europe and Japan through an Experimentation as a Service model. (5) Evaluate the technical, economic and societal performance of the experimentations.

How to get involved?

One of the ultimate goals of the FESTIVAL project is to involve external experimenters and to offer them access to its experimentation facilities. FESTIVAL will launch an Open Call for experimenters in the project's second year (October 2016). Although there will not be specific funding for those calls, the experimenters will be able to benefit from the experimental IoT infrastructure that will be provided by the project, both in Europe and in Japan.

Project Facts

CALL: Collaborative Projects Call 1 - EUJ14 | **EXECUTION:** From October 2014 to September 2017
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