Objective ICT - 2013.10.1

EU - Japan research and development Cooperation

Futur Internet Research & Experimentation (FIRE)

e) Global scale experiments over federated testbeds: Control, tools and applications

Call opening: 2nd October 2012
Call closing: 29th November 2012
What is FIRE?

FIRE Research

FIRE Experimental Facility

Long-term Research

Validation

Requirements

Large Scale Experiments

User Communities

Test bed 1
Test bed 2
Test bed 3
Test bed 4
Test bed 5
Test bed 6
Test bed 7
Test bed 8
Test bed 9

Exp 1
Exp 2
Exp 3
Exp 4
Exp 5

Federated Service Testbeds

Federated Network Testbeds

FIRE Experimental Facility
FIRE current projects

**Experimental Facilities**
- CONFINE
- EXPERIMEDIA
- Smart Santander
- TEFIS
- OFELIA
- OPENLAB
- BONFIRE
- CREW

http://www.ict-fire.eu/

**Experimentally-driven Research**
- CONECT
- SCAMPI
- SPITFIRE
- EULER
- NOVI
- CONVERGENCE
- RESUMENET
- LAWA
- ECODE

**Coordination and Support Actions**
- FIRESTATION
Research Objective EU-JP call

**Target**
The goal is to enable experiments across testbeds as a framework for understanding the management of heterogeneous resources, the access to these resources and the evaluation of their usage.

**What we are looking for:**
- Software solutions that are suited to control and deploy an experiment, using distributed resources of various testbeds, possibly wired and wireless.
- Solutions will be demonstrated for various scenarios ranging from wireless testing to Information-Centric networking.
- The solutions should then be disseminated for a large adoption, eventually going beyond the testbed framework if appropriate.
- Research will focus on Software Defined Networking (SDN) paradigm which enables parallel deployment of slices assigned to virtual network providers.
- The activity should produce a demonstration of the relevance of the proposed solutions in a heterogeneous environment.
- The software developed in the research projects should target deployment and evaluation in the available testing facilities on both sides (OFELIA, OpenLab, JGN-X).
Research Objective

Expected Impact
Interoperability of distributed resources for experiments across heterogeneous testbeds to help researchers both from academia and industry from Japan and Europe to work together for the future of internet
Avoid

- Proposal relating only to future internet research and not clearly demonstrating the integrated perspective
- Pure academia-driven proposals
- Missing long-term vision and planned activities of the EU-Japan co-operation
Thanks for your attention!

Contacts:

**Jacques Babot**  
Team Leader for International activities  
European Commission  
Communications Networks, Content & Technology  
Experimental Platforms

Jacques.babot@ec.europa.eu

Further Information:

http://cordis.europa.eu/fp7/ict/fire  
http://www.ict-fire.eu  
FIRE LinkedIn: //linkd.in/x1CcZ1