Multidimensional context-aware adaptation of Service Front-ends

Fact Sheet

Project Information

**Serenoa**

Grant agreement ID: 258030

**Status**

Closed project

**Funded under**

FP7-ICT

**Overall budget**

€ 5 106 176

**EU contribution**

€ 3 273 620

**Coordinated by**

TELEFONICA INVESTIGACION Y DESARROLLO SA

Spain

Project description

Internet of Services, Software & virtualisation

Serenoa is aimed at developing a novel, open platform for enabling the creation of context-sensitive service front-ends (SFEs). A context-sensitive SFE provides a user interface (UI) that exhibits some capability to be aware of the context and to react to changes of this context in a continuous way. As a result such a UI will be adapted to a person’s devices, tasks, preferences, and abilities, thus improving people’s satisfaction and performance compared to traditional SFEs based on manually designed UIs. Serenoa will perform automatic adaptation of UIs involving the end
user in two major ways: users can intervene in the adaptation (e.g. by controlling, suggesting, accepting/rejecting adaptations, requesting better adaptations) and the system can learn from users (e.g., by observation, by sensing, by machine learning). The final aim is to support humans in a more effective, personalized and consistent way, thus improving the quality of life for European citizens. In this scenario, we envisage Serenoa as the open source reference implementation of a SFE adaptation platform for the 'Future Internet'.

The expected outcome of Serenoa is:
- A computational framework for multi-dimensional adaptations
- Reference models, languages and a methodology which will enable the rapid prototyping and engineering of context-sensitive SFEs
- An open source adaptation engine covering the whole adaptation lifecycle
- An authoring tool to facilitate the engineering, designing and development processes

During the experimentation and evaluation phases of the project, the Serenoa technology will be instantiated, integrated and parameterized to satisfy the demands imposed by domain-specific scenarios (already identified) of context-aware adaptation of SFEs. Such instantiations (in the form of application prototypes) will serve to assess the soundness of our ideas, their acceptance by end-users as well as their viability from a pure technological point of view.

Programme(s)

Topic(s)

Call for proposal

FP7-ICT-2009-5

Funding Scheme

CP - Collaborative project (generic)

Coordinator

TELEFONICA INVESTIGACION Y DESARROLLO SA

Address
Ronda De La Comunicacion
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Spain

Website

EU contribution

€ 608 400

Activity type
Private for-profit entities
(excluding Higher or Secondary Education Establishments)
Participants (6)

UNIVERSITE CATHOLIQUE DE LOUVAIN

Belgium
EU contribution
€ 550 040

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Activity type
Higher or Secondary Education Establishments

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Administrative Contact
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SAP SE

Germany
EU contribution
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Activity type
Private for-profit entities (excluding Higher or Secondary Education Establishments)

Website  Contact the organisation 

Administrative Contact
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FUNDACION CTIC CENTRO TECNOLOGICO PARA EL DESARROLLO EN ASTURIAS DE LAS TECNOLOGIAS DE LA INFORMACION

Spain
EU contribution
€ 255 589

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Activity type
Research Organisations

Website  Contact the organisation 

Administrative Contact
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France

EU contribution

€ 210,148

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Activity type

Other

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EU contribution

€ 234,914

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Activity type

Private for-profit entities
(excluding Higher or Secondary Education Establishments)

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Administrative Contact

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CONSIGLIO NAZIONALE DELLE RICERCHE

Italy

EU contribution

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Activity type

Research Organisations

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