Multidimensional context-aware adaptation of Service Front-ends

Fact Sheet

Project Information

Serenoa

Grant agreement ID: 258030

Funded under
FP7-ICT

Overall budget
€ 5 106 176

EU contribution
€ 3 273 620

Closed project

Start date
1 September 2010

End date
30 September 2013

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.

**Fields of science**

natural sciences › computer and information sciences › internet
natural sciences › computer and information sciences › artificial intelligence › machine learning

**Programme(s)**

FP7-ICT - Specific Programme "Cooperation": Information and communication technologies

**Topic(s)**

ICT-2009.1.2 - Internet of Services, Software and Virtualisation

**Call for proposal**

FP7-ICT-2009-5
See other projects for this call

**Funding Scheme**

CP - Collaborative project (generic)
Coordinator

TELEFONICA INVESTIGACION Y DESARROLLO SA

Address
Ronda De La Comunicacion S/n Distrito C Edificio Oeste I
28050 Madrid
Spain

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

Administrative Contact
Luis López de Ayala Hidalgo (Mr.)

Links
Contact the organisation Website

EU contribution
€ 608 400

Participants (6)

UNIVERSITE CATHOLIQUE DE LOUVAIN

Belgium

EU contribution
€ 550 040

Address
Place De L Universite 1
1348 Louvain La Neuve

Activity type
Higher or Secondary Education Establishments

Administrative Contact
Jean Vanderdonckt (Prof.)

Links
Contact the organisation Website
SAP SE
Germany
EU contribution
€ 837 750
Address
Dietmar Hopp Allee 16
69190 Walldorf
Activity type
Private for-profit entities (excluding Higher or Secondary Education Establishments)
Administrative Contact
Joerg Rett (Dr.)
Links
Contact the organisation Website

FUNDACION CTIC CENTRO TECNOLOGICO PARA EL DESARROLLO EN ASTURIAS DE LAS TECNOLOGIAS DE LA INFORMACION
Spain
EU contribution
€ 255 589
Address
Calle Ada Byron 39 Parque Cientifico Y Tecnologico
33203 Gijon
Activity type
Research Organisations
Administrative Contact
Antonio Campos Lopez (Dr.)
Links
Contact the organisation Website

GEIE ERCIM
France
EU contribution
€ 210 148
Address
Rte. De Lérida 2001 Sdl Avinguda
Route Des Lucioles 2004 Sophia Antipolis
06410 Biot

Activity type
Other

Administrative Contact
Tom Williamson (Mr.)

Links
Contact the organisation Website

W4 S.A.
France
€ 234 914

Address
Rue Emile Baudot
91120 Palaiseau

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

Administrative Contact
jean-loup comeliau (Mr.)

Links
Contact the organisation

CONSIGLIO NAZIONALE DELLE RICERCHE
Italy
€ 576 779

Address
Piazzale Aldo Moro 7
00185 Roma

Activity type
Research Organisations

Administrative Contact
Fabio Paternò (Dr.)