Serenoa
Project reference: 258030
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Multidimensional context-aware adaptation of Service Front-ends

From 2010-09-01 to 2013-09-30

Project details

<table>
<thead>
<tr>
<th>Total cost:</th>
<th>EUR 5 106 176</th>
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<tr>
<td>EU contribution:</td>
<td>EUR 3 273 620</td>
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<tr>
<td>Coordinated in:</td>
<td>Spain</td>
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<tr>
<th>Topic(s):</th>
<th>ICT-2009.1.2 - Internet of Services, Software and Virtualisation</th>
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<td>Call for proposal:</td>
<td>FP7-ICT-2009-5</td>
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<tr>
<td>Funding scheme:</td>
<td>CP - Collaborative project (generic)</td>
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Objective

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.

Related information

Documents and Publications

- Reference Models Specification (R2)
- SERENOA Newsletter September 2011
- Criteria for evaluation of CAA of SFEs (R2)
- Standardization Actions Report (Update 1)
- Algorithm library for AAL (R2)
- SERENOA Newsletter March 2011
Coordinator

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