Self-adapting applications for mobile users in ubiquitous Computing Environments

From 2006-10-01 to 2010-03-31

Project details

<table>
<thead>
<tr>
<th>Total cost:</th>
<th>Topic(s):</th>
</tr>
</thead>
<tbody>
<tr>
<td>EUR 14 527 363</td>
<td>IST-2005-2.5.5 - Software and Services</td>
</tr>
<tr>
<td>EU contribution:</td>
<td>Funding scheme:</td>
</tr>
<tr>
<td>EUR 8 678 000</td>
<td>IP - Integrated Project</td>
</tr>
<tr>
<td>Coordinated in:</td>
<td></td>
</tr>
<tr>
<td>Norway</td>
<td></td>
</tr>
</tbody>
</table>

Objective

MUSIC is a focused initiative that will develop a comprehensive open-source software development framework that facilitates the development of self-adapting, reconfigurable software that seamlessly adapts to the highly dynamic user and execution context, and maintains a high level usefulness across context changes. Context-aware applications are capable of exploiting knowledge of external operating conditions, and they are self-adaptive if they adapt at runtime to varying contexts, like changing user needs and operating environments.

MUSIC will provide a design methodology and distributed system architecture for the design and implementation of self-adapting applications in ubiquitous computing environments. This will be complemented with enhanced modelling languages for the specification of context dependencies and adaptation capabilities, supported by model specification, validation and simulation tools. This platform will be used to develop trial services, based on a set of challenging application scenarios with real market potential, having a central role: as sources of requirements, to assess technical adequacy of the results, and to promote the results.

MUSIC thus invites the user to take for granted a high level of service usability, reliability and responsiveness. The user will be released from the complex configuration and administration that are imposed on users by many applications today. Thus, MUSIC is not only about the immediate technical objectives of self-configuration of context-aware applications, but it represents a noteworthy response to the vision of autonomic computing as articulated by major industrial players.

MUSIC includes major industrial players in the mobile market, several SMEs (one IST prize winner) specialising in mobile services, organisations with expertise in the domains of the trial services, Universities, and research institutions. The duration will be 42 months, the budget 14.5MEuros, and the requested grant 8.678MEuros.

Related information

Documents and Publications

MUSIC: Self-adapting applications for mobile users in ubiquitous computing environments
Coordinator

SINTEF - STIFTELSEN FOR INDUSTRIELL OG TEKNISK FORSKNING VED NORGES TEKNISKE HOEGSKOLE
STRINDVEIEN 4
7034 TRONDHEIM
Norway
See on map

Administrative contact: HORN, GEIR
Tel.: +47-93059335
Fax: +47-22067350
E-mail

Participants

APPEAR NETWORKS SYSTEMS AB
KISTA SCIENCE TOWER
16451 KISTA
Sweden
See on map

CONDAT AG
ALT-MOABIT 91D
10559 BERLIN
Germany
See on map

EML EUROPEAN MEDIA LABORATORY GMBH
SCHLOSSL-WOLFSBRUNNENWEG 33
69118 HEIDELBERG
Germany
See on map

HEWLETT PACKARD ITALIANA SRL
VIA G. DI VITTORIO, 9
20063 CERNUSCO SUL NAVIGLIO
Italy
See on map

INTEGRASYS, S.A.
ESQUILO 1
28230 LAS ROZAS - MADRID
Spain
See on map

KATHOLIEKE UNIVERSITEIT LEUVEN