REuse and Migration of legacy applications to Interoperable Cloud Services

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

Project details

<table>
<thead>
<tr>
<th>Total cost:</th>
<th>EUR 5 682 236</th>
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<tbody>
<tr>
<td>EU contribution:</td>
<td>EUR 4 371 981</td>
</tr>
<tr>
<td>Coordinated in:</td>
<td>Norway</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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<tr>
<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

The goal of REMICS is to develop advanced model-driven methodology and tools for REuse and Migration of legacy applications to Interoperable Cloud Services. Service Cloud paradigm stands for combination of cloud computing and Service Oriented Architecture (SOA) for development of Software as a Service systems.

To support the migration, REMICS will enhance the OMG Architecture Driven Modernization (ADM) methodology with specific methods, metamodels and tool support, including knowledge discovery, patterns and transformations for SOA and Cloud Computing, Model-Driven Interoperability (MDI), Models@Runtime, Model Checking and Model-based Testing (MBT). REMICS will also link the extracted knowledge from legacy systems with requirements models outlining the application logic in the form of user-system interaction scenarios.

REMICS will take an active role in the standardisation of metamodels and languages for Service Clouds including OMG PIM4Cloud/CloudML. The technical results will be compliant with the proposed standards ensuring high industry acceptance.

The current migration approaches are mostly ad-hoc limiting EU companies from benefiting of latest Future Internet technologies for service provision. REMICS will provide the technologies that will shorten the "time-to-market" and improve the manageability for service cloud systems based on legacy. Performance testing of applications in the cloud will enhance the runtime monitoring facilities and allow for optimization of cloud-based applications.

REMICS tools and techniques will be supported by the REMICS methodology for migration, introducing relevant agile practices and agile method engineering principles.

The REMICS consortium after extension consists of eight RTD partners and two SME users. DOME and DI Systemer are two SMEs that will provide requirements and case studies for the REMICS approach validation in the areas of travel and accounting systems respectively.

Additional cases will be provided by the new partners, especially regarding online transaction-based systems. The particular RTD focus for SINTEF is in Service Cloud and model-driven interoperability, SOFTEAM and Netfective in Architecture Driven Modernisation (ADM) SOA and tools, Fraunhofer in Model Checking and MBT, Tecnalia and IICT-BAS in methodologies, WUT in requirements models and transformations to SOA, and for UT in migration techniques for online transaction-based systems and performance testing in the cloud.
Coordinator

STIFTELSEN SINTEF
Forskningsveien 1, PO Box 124, Blindern 4
0314 Oslo
Norway

Administrative contact: Geir Horn
Tel.: +47 93059335
Fax: +47 92775650
E-mail

Participants

INSTITUTE OF INFORMATION AND COMMUNICATION TECHNOLOGIES
UL. ACAD G BONCHEV
1113 Sofia
Bulgaria

Administrative contact: Sylvia Ilieva
Tel.: +35928717127
Fax: +35928707273
E-mail

FRAUNHOFER-GESELLSCHAFT ZUR FOERDERUNG DER ANGEWANDTEN FORSCHUNG E.V
Hansastrasse
80686 MUNCHEN
Germany

Administrative contact: Stephan Kollmer
Tel.: +49 2241 14 2082
Fax: +49 2241 14 2386
E-mail

TARTU ULIKOOL
ULIKOOLI
50090 TARTU
Estonia

Administrative contact: Martin Kaljula
Tel.: +3727375425
Fax: +3727375473
E-mail

DOME Consulting & Solutions, S.L.
Parc BIT - Local 14 Crta Palma-Valldemossa, km 7,4
07121 Palma de Mallorca
Spain

Administrative contact: Ernesto Romero
Tel.: +34 902 889 288
Fax: +34 971 439 702
E-mail
NETFFECTIVE TECHNOLOGY SA
RUE JEAN-JACQUES ROUSSEAU
92158 SURESNES CEDEX
France
Administrative contact: Franck Barbier
Tel.: +33 5 59 40 77 43
E-mail

SOFTEAM
Avenue Victor Hugo
75016 PARIS
France
Administrative contact: Philippe Desfray
Tel.: +33 1 53 96 84 00
Fax: +33 1 53 96 84 01
E-mail

VISMA Software International AS
Karenslyst allé
0277 Oslo
Norway
Administrative contact: Thor Saether
Tel.: +47 950 50655
Fax: +47 7382 7640
E-mail

POLITECHNIKA WARSZAWSKA
PLAC POLITECHNIKI
00-661 WARSZAWA
Poland
Administrative contact: Michal Smialek
Tel.: +48 693 217151
Fax: +48 22 2345642
E-mail

BLU AGE SOFTWARE
RUE JEAN JACQUES ROUSSEAU
92150 SURESNES CEDEX
France
Administrative contact: Jean-Philippe MONNET
Tel.: +33 1 56058800
Fax: +33 1 56058801
E-mail

Subjects
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