



## ACSI – Artifact-Centric Service Interoperation



D6.5

### Collaboration Activities Plan

|                           |  |     |
|---------------------------|--|-----|
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## Abstract

*ACSI is an FP7 STReP project launched in June 2010 that aims to help businesses more easily take advantage of Internet-based services - or "e-services" - to create collaborative business operations and achieve shared business goals. Collaboration is a fundamental concept for developing and driving innovative solutions and facilitating the wide diffusion and effective promotion of ideas and project results to the public. This collaboration plan covers the liaison and cooperation with other ICT projects and is aimed at exploiting the synergies between the projects and increasing the impact of the ICT initiative. This deliverable outlines the potential collaboration projects and activities planned for ACSI.*

*At the end of each reporting period, this document will be revised with information about activities carried out and updated plans for the next period.*

## Document History

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## Table of Contents

|   |    |
|---|----|
| Abstract .....  | 3  |
| Document History .....  | 4  |
| Table of Contents .....   | 5  |
| Acronyms.....   | 6  |
| 1. Introduction .....   | 7  |
| 2. Collaboration activities foreseen for ACSI.....                    | 7  |
| 2.1. Exploitation of synergies / technical coordination .....         | 7  |
| 2.2. Joint activities for exchange, dissemination, and training ..... | 7  |
| 2.3. Contribution to standardisation efforts.....                     | 8  |
| 3. Collaboration with other ICT projects .....                        | 8  |
| 3.1. EU project grouping and collaboration groups.....                | 8  |
| 3.2. Potential collaboration projects and liaisons .....              | 10 |
| 4. Summary .....  | 11 |

## Acronyms

| <b>Acronym</b> | <b>Explanation</b>                                  |
|----------------|---|
| ACSI           | Artifact-Centric Service Interoperation             |
| DoW            | Description of Work                                 |
| ICT            | Information and Communication Technologies          |
| SBVR           | Semantics for Business Vocabulary and Rules         |
| NESSI          | Networked European Software and Services Initiative |

## 1. Introduction

Collaboration is a fundamental concept for developing and driving innovative solutions and facilitating the wide diffusion and effective promotion of ideas and project results to the public. This collaboration plan covers the liaison and cooperation with other ICT projects and is aimed at exploiting the synergies between the projects and increasing the impact of the ICT initiative. This document constitutes deliverable D6.5 "Collaboration Activities Plan" to be submitted in month 6 as part of the work associated with Task 6.2 "Collaboration with ICT IoS Projects" in the ACSI (Artifact-Centric Service Interoperation) DoW (Description of Work). In this context, ACSI focuses on cooperating with and contributing to other related European projects.

This document covers the specific activities that will be done in collaboration with other projects. Other project work-package tasks and deliverables cover the specific project activities in some of these areas (e.g., dissemination, standardisation). At the end of each reporting period, this document will be revised with information about activities carried out and updated plans for the next period.

This document is organised as follows: Chapter 2 provides an overview of the collaboration activities foreseen by the ACSI partners. Chapter 3 describes potential collaboration with other EU projects of Call 5 for Objective 1.2 "Internet of Services, Software and Virtualisation"; provides an overview of the global project grouping; and details predicted collaboration activities. We summarise the document in Section 4.

## 2. Collaboration activities foreseen for ACSI

ACSI partners foresee the following collaboration activities:

### 2.1. Exploitation of synergies / technical coordination

This activity provides a forum for discussion on technical grounds. One channel is through collaboration working groups (see Section 3.1) that exchange information and exploit synergies.

NESSI (Networked European Software and Services Initiative) is the European technology platform dedicated to software and services. The main focus of NESSI is on service. In this context, NESSI concentrates on transforming the EU economy through service-oriented business models. TU/e will be ACSI's liaison to NESSI (<http://www.nessi-europe.com>).

Through these channels, ACSI will contribute jointly created materials disseminated to the public.

### 2.2. Joint activities for exchange, dissemination, and training

Summer School: ACSI plans to teach in 2012 a course (that will include a demo of the developed prototype tools) at one of the yearly summer schools in which topics that are close to those dealt in ACSI are lectured. Candidate schools are the European Summer School in Logic, Language, and Information (ESSLLI), the Reasoning Web Summer School (ReasoningWeb),

and the International School on Formal Methods for the Design of Computer, Communication, and Software Systems (SFM). ACSI partners: FUB and Indra.

A joint workshop or conference led by Uniroma1, Imperial, and UT will be scheduled for 2012-2013.

### 2.3. Contribution to standardisation efforts

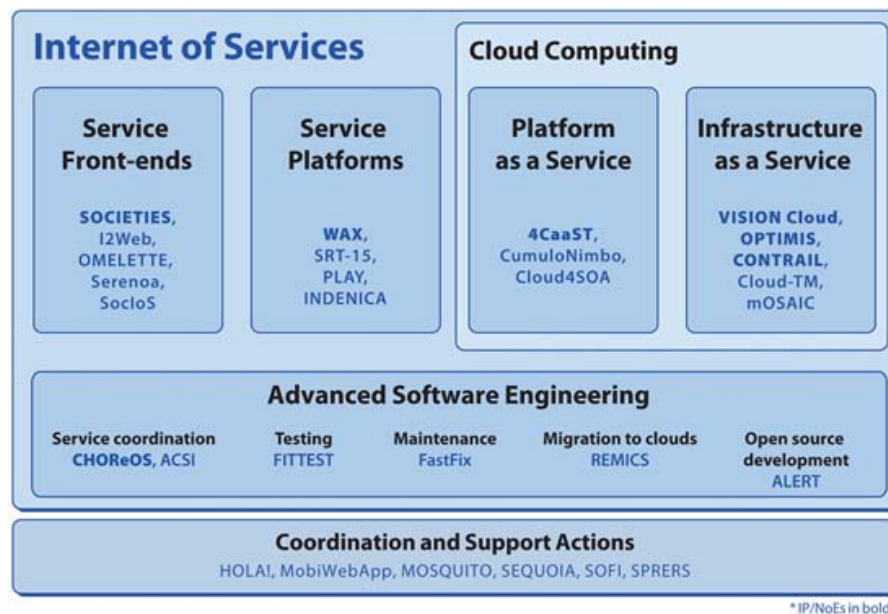
Collibra is an active member of the SBVR (Semantics for Business Vocabulary and Rules) committee. Collibra's current software and methodology supports: (i) defining the business context of important assets in SBVR; (ii) deriving technical models for semantic applications from business semantics in SBVR; and (iii) generating data transformation and validation services between heterogeneous data sources based on these technical models. Via ACSI, Collibra plans to expand the application of business semantics to three major domains: MDM, BAM, and SOA.

More and more people, both in industry and academia, consider process mining as one of the most important innovations in the field of business process management. It combines the ideas of process modeling and analysis on the one hand and data mining and machine learning on the other. Therefore, the IEEE has established a Task Force on Process Mining (see <http://www.win.tue.nl/ieetfpm/doku.php>). This task force was established in the context of the Data Mining Technical Committee (DMTC) of the Computational Intelligence Society (CIS) of the Institute of Electrical and Electronic Engineers (IEEE). The goal of this task force is to promote the research, development, education, and understanding of process mining. One of the important activities will be to standardise the log format. Based on experiences with MXML (mining XML format) and SA-MXML (semantically annotated MXML), the IEEE Task Force on Process Mining aims to establish a new standard. We believe ideas related to artifact-centric process mining can be incorporated to benefit all parties involved. W. M. P. van der Aalst (TU/e) chairs the IEEE Task Force on Process Mining. Slides listing activities can be found at <http://www.win.tue.nl/ieetfpm/lib/exe/fetch.php?media=shared:taskforceinfo-meeting-at-bpm2010.pdf>

## 3. Collaboration with other ICT projects

### 3.1. EU project grouping and collaboration groups

The fifth call for proposals for the FP7 ICT Programme closed in October 2009. Within Objective 1.2, a total of 195 proposals were received, of which 28 were selected. Together with one project from Objective 9.4 (“Strengthening Cooperation in ICT R&D in an Enlarged Europe”), these 29 projects are depicted and clustered in Figure 1 of the FP7 Internet of Services ([http://cordis.europa.eu/fp7/ict/ssai/projects\\_en.html](http://cordis.europa.eu/fp7/ict/ssai/projects_en.html)). The ACSI project has been placed in the service coordination module along with the CHOReOs project.



**Figure 1 - Project Call 5 FP7-ICT-2009-5-Objective 1.2 Internet of Services, Software and Virtualisation (2010-2014)**

Within Objective 1.2, projects collaborate through collaboration working groups. An initial overview of all the collaboration working groups is given in <http://www.eu-ecss.eu/contents/collaboration-working-groups>. Collaboration working groups can work on a topic of common interest that leads to improved sharing and understanding and ultimately to improved impact of the results of the participating projects.

To promote collaboration with other ICT projects, ACSI has already participated in one European Commission collaboration event. The Internet of Services event was held on October 19-20, 2010 ([http://ec.europa.eu/information\\_society/events/ssai/ios/index\\_en.htm](http://ec.europa.eu/information_society/events/ssai/ios/index_en.htm)). The meeting objectives included the following:

- Consolidate the collaboration activities among the projects to build an even stronger community
- Include recently started projects in collaboration working groups
- Give recently started projects the opportunity to understand the key results of existing projects/collaboration working groups to facilitate the reuse of these results
- Give existing projects/collaboration working groups the opportunity to better exploit their results by finding synergies with recently started projects
- Achieve a better understanding of the results of the FP6 & FP7 projects in the “Internet of Services” area

ACSI has joined the following working groups:

- Semantics - The mission of this working group is to provide a forum for collaboration among projects, primarily within the Software and Service Architectures unit, on the application of semantics to SOA. ACSI partner: Collibra.
- Formal methods for SOA and Future Internet - This group discussion is aimed at determining how formal methods would contribute to the specification, design,

development, and deployment of service-oriented architectures, based on potential or real error-risk analysis. ACSI partner: IBM.

### 3.2. Potential collaboration projects and liaisons

The EU projects listed below in Table 1 are relevant to ACSI, and cooperation/dissemination with these projects is planned during the project. The interactions with these projects will take the form of face-to-face discussions, mailing list discussions, phone conferences, meetings, and more.

**Table 1: Potential collaboration with FP7 projects**

| Project   | Objective and scope   | Potential result for ACSI  | Liaison partners  |
|-----------|---|--|---|
| HOLA!     | Establish an infrastructure for project collaboration and knowledge management (e.g., a collaboration portal to host projects and working groups) | Utilise this platform for result dissemination in the Digital Library, on-line exposure, and participation in organised collaboration workshops                                      | Geir Horn,<br>Eva Garcia,<br>Claudio Caimi  |
| SEQUOIA   | Develop a sound socio-economic methodology to measure the potential impact of projects  | Assess the potential economic impact of the ACSI Hub Framework (part of the exploitation effort in the project)  | Paolo Dini,<br>Antonella Passani,<br>Shenja Van Der Graaf,<br>Mauro Navarra,<br>Francesco Bellini |
| CHOReOS   | Establish a framework for the choreography of services in the Future Internet (i.e., non-centralised composition of services)                     | Mutual testbed (e.g., comparison between the two approaches), and common SIGs (e.g., service collaboration platforms)  | Hugues Vincent,<br>Valérie Issarny  |
| Cloud4SOA | Create and implement an architecture that focuses on resolving semantic interoperability challenges associated with Cloud environments            | Explore possibilities to facilitate the Cloud4SOA platform as the basis for integrating into the Cloud market and as another semantic layer which may promote service interoperation | Francesco D'Andria,<br>Giovanni Tummarello  |
| ALIVE     | Develop a multi-layered framework for designing, deploying, and managing service-oriented systems   | Explore the path of mapping between the artifact-centric “layer” (i.e., artifacts as first-class citizens) and the investigated layered approach                                     | Javier Vazque   |

## 4. Summary

Collaboration between several projects can generate more relevant impact and better performance than individual projects. This document summarises the collaboration activities planned for ACSI as foreseen at month 6 of the project. All projects and initiatives considered by ACSI as sources for contributions and collaboration have been selected based on the degree of compatibility as perceived at this stage. It is important to keep the flow of information open to other European projects/initiatives to facilitate the identification of new synergies to exploit.

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