SOA4All

Semantics
Web2.0
Web Services
Context

SEVENTH FRAMEWORK PROGRAMME

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Project Acronym:	**SOA4All**
Project Title:	**Service Oriented Architectures for All**
Instrument:	**Integrated Project**
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D12.6.2 First Collaboration Activity Report

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Version History

Version	Date	Comments, Changes, Status	Authors, contributors, reviewers
1.0	08/12/2008	First version of the Collaboration Activity Report	Mercedes Avilés (Atos) Elisabetta Di Nitto (CEFRIEL) Javier Nieto (Atos) Veronique Petchvin (NESSI) Reto Krummenacher (STI) Sven Abels (TIE) Miguel Carrillo (TID) Franz Muehl (Siemens)
1.1	18/12/2008	First partner's feedback Some recommendations have been considered and new projects have been includes such as SPICE	Maurilio Zuccalà (CEFRIEL) Freddy Lecue (University of Manchester)
2	13/01/2009	New updated version of the collaboration activity report	Mercedes Avilés (Atos) Elisabetta Di Nitto (CEFRIEL) Javier Nieto (Atos) Veronique Petchvin (NESSI) Reto Krummenacher (STI)
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3.0	09/03/2009	Peer review of the Collaboration activity report	Reviewers: Graham Hench (STI International) Freddy Lecue (University of Manchester) Maurilio Zuccalà (CEFRIEL)

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Glossary of Acronyms

Acronym	Definition
B2B	Business to Business
CELTIC	A Eureka Cluster Programme to foster European leadership in telecommunications
COIN	Enterprise Collaboration and Interoperability
FAST	Fast and Advanced Storyboard Tools
FP7	The 7th Framework Program
EC	European Commission
EU	European Union
EUREKA	A Europe wide network for market oriented Industrial R &D
ETP	European Technology Platform
FIA	Future Internet Assembly
ICT	Information and Communication Technology
ISU	Interoperability Service Utility
IST	Information Society Technology
IT	Information Technology
NESSI	Networked European Software and Services Initiative
ITEA	Information Technology for European Advancement
NSPs	NESSI Strategic Projects
NoE	Network of Excellence
NWG's	NESSI Working Groups
NEXOF	NESSI Open Service Framework
NEXOF-RA	NEXOF Reference Architecture
OCP	Open Construction Process
SAAS-U	Software as a Service Utility
SCS	Service Centric System
S-CUBE	The Software, service and System Network
SEEM	Single European Electronic Market
SLAs	Service Level Agreements
SLA@SOI	Empowering the Service Economy with SLA Aware Infrastructures
SME's	Small Enterprise
SOA4All	Service Oriented Architecture for All
SPICE	Service Platform for Innovative Communication Environment
SSAI&E	Service and Software Architecture, Infrastructure and Engineering
STASIS	Software for Ambient Semantic Interoperable Services
WG	Working Group
WS	Web Service

Executive summary

This report summarizes the main collaboration activities between SOA4All and selected projects according to the collaboration plan defined at the beginning of the SOA4All project in March 2008. Collaboration is a fundamental concept in terms of developing and driving innovative solutions. This will thus ensure the wide diffusion and effective promotion of ideas and projects results.

This document also outlines main projects and initiatives involved in this collaboration plan from the start date of the SOA4All project as well as other related projects/initiatives recently contacted in order to strengthen collaboration links. Furthermore, it pays attention to the main modalities of collaboration agreed by these projects/initiatives and SOA4All (technical exploitation of synergies and joint dissemination).

To sum up, major collaboration activities mentioned in the document are based on sharing complementary goals, philosophy, purpose and best practices in order to achieve and effectively exploit common results from a technical point of view and improve overall visibility of project results in terms of dissemination.

1. Introduction

1.1   Purpose and scope

The main purpose of this document is to present a summary of the first year of the collaboration plan defined by SOA4All focusing on activities with other major projects in terms of technical developments and collaborative dissemination within the software and services area.

1.2   Structure of the document

Besides the Executive Summary, this document is divided into the following chapters:

- Chapter 2 compiles modalities of collaboration that includes technical collaboration and joint dissemination.

- Chapter 3 outlines main projects/initiatives involved in the collaboration plan as well as the identification of the new ones of interest for SOA4All.

- Chapter 4 contains a summary of main achieved and planned collaboration with the SOA4All related projects and initiatives.

- Chapter 5 highlights the conclusion.

- In addition, some references are collected at the end of the document.

1.3   Audience

This plan has been created with the support of partners included in the dissemination work package of SOA4All (WP12). It is a public document because it will be shared with people from other projects SOA4All has decided to collaborate with.

2. Modalities of collaboration

The concrete collaboration modalities with different projects are summarized hereafter. They are two:

- **Technical Exploitation of Synergies**

  - It is aimed at bringing together mayor players in the related SOA4All domains to exchange knowledge as well as to search and share common approaches and technologies. It also focus on providing an opportunity for projects to exchange information on the scope of work in progress, identifying key issues of common interest and potential collaboration and agreeing future clustering activities.

- **Joint Dissemination actions**

  - SOA4All and related projects will improve its results visibility via joint presentations, participation in workshops, sponsorship of related activities, organization of conferences and workshops, and moderation of discussions forums and blogs. In addition, organized special sessions at related ICT events allow a more focused dissemination.

3. Projects and Initiatives involved

According to the first Collaboration Plan D.12.6.1, the projects and initiatives listed below have been considered as relevant to strengthen links in order to exploit some technical synergies and join effort on the dissemination of common results.

- **NEXOF-RA** http://www.nexof-ra.eu/

- **SLA@SOI** http://sla-at-soi.eu/

- **S-Cube** http://www.s-cube-network.eu/

- **COIN** http://www.coin-ip.eu

- **NESSI Initiative** http://www.nessi-europe.com/Nessi/

In addition, SOA4All has been contacted by the **SPICE** project (http://www.ist-spice.org/index.html), in order to approach ideas and technologies. This project focuses mainly on telecom services - with a corresponding architecture and service lifecycle support and specific Telco requirements. SPICE utilizes service oriented architectural principles, Web service as well as semantic technologies.

Besides the SPICE project, SOA4All has made a specific collaboration within the **FAST** project (http://fast.morfeo-project.eu) aimed at providing an innovative visual programming environment that will facilitate the development of next-generation composite user interfaces.

SOA4All has also participated to the **Future Internet Initiative** (http://www.future-internet.eu/). The Future Internet is structured to permit open interactions and cross-fertilization across technical domains, reaching out to whoever has talent and is interested in contributing. It works towards:

- Common deliverables creating value for the projects concerned.

- Joint strategic research agenda regarding common actions and requirements.

Developing a consolidated calendar of events aiming at avoiding fragmentation of efforts. All projects/initiatives listed above contain common interests and complementarities to SOA4All in terms of related issues and partners.

To sum up, some brief collaboration concerning the Web 3.0 project has been made. Service Web 3.0 (http://www.serviceweb30.eu/cms) is a support action, which coordinates ongoing research and development in the area of networked software and services – specifically those that utilize semantic technologies – towards the realization of the Future Internet.

4. Summary of main past and planned collaboration actions

This section points out main past and planned collaboration actions, between SOA4All and the projects considered in the collaboration plan. In addition, actions with new related projects/initiatives identified after the start date of the project, are also considered in this section.

4.1   STASIS

The joint collaboration between STASIS and SOA4All has involved the following points at the technical level:

- During the STASIS Plenary Meeting, TIE gave a talk about SOA4All. This event reached about 20 people. There, TIE has also introduced SOA4All and its relationship to the NESSI initiative. TIE has focused on two different aspects within the presentation. First of all, SOA4All has been highlighted from an overall perspective, including its role in the NESSI initiative and its connection to NEXOF-RA. Secondly, the technical approach of SOA4All has been highlighted including the description of the runtime and design time elements of the project. After the presentation, an active discussion has been performed allowing people to discuss about current research approaches in the semantic domain. This event took place in Sofia, Bulgaria, from the 14th to the 17th of October 2008.

- Exchange of information between the developers of the SOA4All semantic spaces and the STASIS SRRN[1] during the SOA4All plenary and in the WP1 meeting. TIE has offered to provide the STASIS SRRN as an intermediate solution for the semantic spaces until the first beta implementation of SOA4All is available. This event took place in Karlsruhe, Germany, on the 30th of October 2008.

- Concerning Integration, there has been a Telco between the STASIS and the SOA4All developers within TIE for discussing possibilities of integrating STASIS into the SOA4All Studio. This discussion has involved an identification of different tools that would allow to able the STASIS Desktop application to become a Web based plug-in of the SOA4All Studio as it is described in Task 2.4.

- Some meetings were held between the developer teams for exchanging information and discussing technical collaborations in more detail. This involved a 1/2 day workshop held at the TIE office in Amsterdam. Within the workshop, different reasoning mechanisms that are to be used in the STASIS project were demonstrated, and an active discussion started about how to apply those in a distributed environment like in the semantic spaces environment of the SOA4All project. STASIS developers have discussed the different approaches in the STASIS SRRN and the Semantic Spaces/DSB approach of SOA4All sketched an idea for creating a bridge between people. This event took place on the 15th of December 2008.

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[1] Semantic Registry and Repository Network

Besides the technical collaboration mentioned above, some joint dissemination has been done in terms of increasing the visibility of both projects by including STASIS and SOA4All logos on both websites.

In addition, some planned dissemination actions in the short term will cover the Semantic Week organized by the STASIS object. The aim is to provide an open platform that allows the projects to increase the awareness of both projects and to increase the base of users and companies that are interested in applying the technologies in real world projects. STASIS would like to have the support / commitment of the projects listed below:

- Projects: STASIS, BREIN, SOA4All
- EU: Software and Service Unit
- NESSI: Semantic Working Group
- Future Internet   Semantic Group
- Possible   SEMIC.EU

The week will be composed of the following, workshops and meetings:

- Workshop part 1: 1 days: Which overviews what projects/groups have to offer. The idea is to inform, excite, entice and seek cooperation and interest in Workshop part 2.

- Workshop part 2: 1 day: More in depth session: 1/4-1/2 day for real discussion and where longer/more detailed workshop/open group-meetings can occur.

- Meeting part: 1-2 days as necessary, prior to the workshops, projects can e.g. have WP/Plenary meetings, which will help with travel and create critical workshop mass.

Furthermore, SOA4All and STASIS are planning to join forces to attend the Research Connection 2009[2] in Prague, Czech Republic (May 2009). This conference is considered one of the main EU research events that will bring the opportunity to exhibit SOA4All and STASIS as EU funded projects. This event will promote also the networking and integration of research activities carried out in Europe. Some ideas about the joint presence at this event are listed below:

- A paper about how to combine STASIS and SOA4All and submit it at a suitable conference/workshop.

- Write a short a statement paper (~2 pages) for highlighting the goals of both projects and on how they belong together.

- Create some kind of Video (very Web 2.0 like), based on mockups and screenshots for the SOA4All parts (as most SOA4All developments are not ready) and on the STASIS prototype for the STASIS parts.

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[2] http://ec.europa.eu/research/conferences/2009/rtd-2009/index_en.cfm

4.2 NEXOF-RA

Collaboration between SOA4All and NEXOF-RA focuses on the exploitation of technical synergies through the SOA4All contribution to the Open Construction Process (OCP) of NEXOF-RA, in terms of the Invitations to Contributes as well as the Architecture Board Meetings. In addition, SOA4All also contributes at the technical level by providing terms for the NEXOF-RA glossary. Main technical collaboration activities done between NEXOF-RA and SOA4All are listed below:
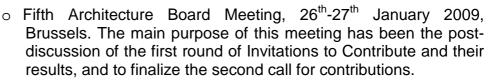
- SOA4All has participated to the First Invitation to Contribute, in particular to the Core Service Framework Area concerning the Service Description Techniques and the Design Time Service Composition topics. On one hand, SOA4All has submitted a position paper about *"Service Description Technology Lightweight Service Semantics and Annotations Common for WSDL and Restful Web Services"*. This contribution was intended to bring the concepts of WSMO-Lite[3] and MicroWSMO[4] to the NEXOF-RA Service Description Activity.SOA4All focuses on incremental and modular introduction of semantics into service descriptions, and thus complements the more expressive and well-known frameworks such as WSMO[5]. While, lightweight, the SOA4All Semantic Web service description approach has sufficient expressivity to cover most of the known deployments of the larger frameworks. A second paper "*Towards Dynamic Services Compositions*" has also been submitted by SOA4All regarding the Design Time Service Composition topic.

- As full member of the NEXOF-RA, SOA4All has joined the five NEXOF-RA Architecture Board meetings held from 2008 to 2009. Those meetings have focused on the following issues:

  - First Architecture Board Meeting, 16th -17th April 2008. The NESSI Strategic Projects (SOA4ALL, SLA@SOI, RESERVOIR and EzWeb) have joined NEXOF for the launching of this high level team where all the projects were presented and the bases for the Invitation to Contribute initiative were established.

  - Second Architecture Board Meeting, 27th -28th April 2008, Brussels. It has been devoted to collect the potential list of interesting topics for the first Invitation to Contribute.

  - Third Architecture Board Meeting, 2nd -3rd July 2008, Haifa. It has been aimed at deciding from the potential list of topics which ones will definitely open to contribute for the first Invitation to Contribute.

  - Fourth Architecture Board Meeting, 13th -14th October 2008, Brussels. This time, the Architecture Board has reviewed all position papers submitted by stakeholders in order to issue invitations to the Investigation Team.

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[3] It describes a lightweight service ontology and annotation mechanism for Web Service Description Language (WSDL)

[4] Semantic Description of Restful Services

[5] Web Service Modelling Ontology

o Fifth Architecture Board Meeting, 26th-27th January 2009, Brussels. The main purpose of this meeting has been the post-discussion of the first round of Invitations to Contribute and their results, and to finalize the second call for contributions.

- SOA4All has also contributed to the NEXOF-RA glossary: This glossary is a selection of terms that is being prepared by the NEXOF-RA project, in cooperation with NESSI related projects, and is intended to form a common glossary across the projects and beyond. It takes many of its definitions from established standards or pseudo standards. These terms concern various aspects of the service lifecycle ranging from requirement analysis to operation. One of the inconveniences of such glossary with respect to the models that we have previously described is that the various terms are defined in isolation and the relationships between terms are not highlighted. This can easily lead to ambiguities and missing definitions. Its main advantage stands in the fact that it is much broader than the other models. SOA4All defines its terminology starting from the NEXOF-RA glossary in order to enable interaction with the other projects of the NESSI platform. In particular, in this section those terms of the glossary are selected that are of interest of the SOA4All project. SOA4All will propose modifications to some definitions and introduce new definitions to cover aspects that are relevant to the SOA4All project. The new definitions are identified by looking at the main objectives of the SOA4All project and at its case studies.

At dissemination level, a networking session about "Research challenges and contributions for NEXOF, the NESSI Open Service Framework" proposed by NESSI has been coordinated by NEXOF-RA in collaboration with SOA4All at the ICT event, the most important forum hosted by DG Info at the European Commission for discussing information technology research and development at European level. Over 4500 people registered to this event. The session has focused on informing the participants about how they can take part in the development of NEXOF. In addition, an opportunity for collaborative research under the 7th Framework Programme has been on the agenda too. Over 30 people have attended the session and supported it through the official ICT Website. Lyon, France. November 2008.

Some of the planned actions to be done in the short term will consist of continuing collaborating to the Open Construction Process by participating to the 2nd Invitation to Contribute, launched in February 2009 regarding the Core Service Framework area in terms of submitting two papers: one based on the execution engine (runtime composition topic) and one based on the light-weight process modeling language. In addition, SOA4All will join the next Architecture Board meeting to be held in Brussels next 28th and 29th of April 2009. In addition, NEXOF-RA expects new contributions from the SOA4All regarding the glossary as well as a day-to-day contribution to the Service Centric System Architecture of NEXOF-RA. To date, the contributions of SOA4All have been limited to the aforementioned input to the service discovery topic. Further involvement was not yet possible in the large, as SOA4All was not yet in the position to contribute with own results. The SOA4All architecture and components specifications are still work in process, with expected deadlines by end of February 2009. From there on, SOA4All will be able to feed insights back to NEXOF-RA, starting, as planned, already with the Open Construction Cycle 2. In what the

dissemination is concerned, NEXOF-RA and SOA4All expect to attend the next ICT event that will take place at the end of 2009 in terms of giving one common talk.

4.3   S-Cube

The plan for collaboration with the S-Cube NoE that has been defined in deliverable D12.6.1 is still valid (see D12.6.1, Sect. 2.2.1 for further details).

The SOA4All project and the S-Cube NoE have different nature and can be seen as complementary initiatives. S-Cube in fact focuses on long-term research and on promoting the development of an integrated and multidisciplinary community, whereas SOA4All focuses on the specific case studies proposed by industrial partners by adopting a practical approach. Therefore collaboration between S-Cube and SOA4All cannot be related to the reuse of software solutions, prototypes etc. On the contrary, collaboration mainly takes place at the dissemination level.

Luca Cavallaro (one of the researchers involved in S-Cube from the side of Politecnico di Milano) has collaborated with Gianluca Ripa and Maurilio Zuccalà (two of the researchers involved in SOA4All from the side of CEFRIEL) in the writing of a joint position paper: "Adapting Service Requests to Actual Service Interfaces through Semantic Annotations", accepted for publication at Principles of Engineering Service Oriented Systems (PESOS) 2009 – a Workshop of the 31st International Conference on Software Engineering (ICSE) 2009, May 2009, Vancouver, Canada.

The paper describes the result of a research activity in the area of self-adaptive service compositions carried out in the last 6 months. The researchers from SOA4All have offered the knowledge acquired in the project on Semantic Web approaches, while the researcher from S-Cube have offered the experience gathered in the field of self-adaptation – that is one of the main aspects being considered within S-Cube. The usage of semantics seems in fact to be a possible and promising way for introducing some automation in self-adaptation activities. Our research aims at proving this hypothesis through the development of a proof of concept prototype that, in a re-engineered form, will become part of the SOA4All set of tools.

Based on the current status of the two initiatives, the main actions that we have identified in the field of service-based systems at a more technical level – concerning the sharing of the S-Cube knowledge map and of the SOA4All case studies and best practices –become achievable in the second year of the two projects. Moreover the research activity mentioned above will be further developed within SOA4All.

4.4   SLA@SOI

The scope of the SLA@SOI project is the definition, negotiation, and monitoring of SLAs between various layers of a service infrastructure. Such topics are not investigated in SOA4All. On the other hand, SLA@SOI focuses only marginally on service composition design and execution, which is a main goal in SOA4All. Thus the two projects can be seen as highly complementary.

SOA4All has also contributed to the SLA@SOI project by compiling a survey on requirements for their management framework (sent on January 30th, 2009). The goal of such survey has been in fact to collect requirements for a framework for

(semi-)automatic management of services, on the basis of formally specified SLAs. Requirements have been organized in categories, divided in three groups: conceptual and/or informational models for SLA based management, functionalities of a SLA based management framework, and architecture of a SLA based management framework. Each requirement has been described by indicating a source (i.e., name and reference of the project or of the person that proposed the requirement), a description of the requirement itself and a reason (i.e., the description of the reason why the satisfaction of this requirement is needed). Requirements provided by SOA4All – have been compiled by Gianluca Ripa (CEFRIEL) – and they cover the following categories: SLA negotiation, SLA managed services, and requirements on monitoring and controlling capabilities of service components. Future collaboration activities include discussion on the feedback received from SLA@SOI about requirements provided by SOA4All, e.g., how they intend to process and implement them.

4.5 COIN

Starting from notable research results in the field of enterprise interoperability and collaboration, COIN will develop a baseline and innovative services for supporting various collaborative business forms, from supply chains to business ecosystems. As a result, COIN will offer a business-pervasive open source service platform that will be able to expose, integrate, compose, and mash-up, in a secure and adaptive way, existing and innovative Enterprise Interoperability and Enterprise Collaboration services.

During the first 12 months, some meetings have been performed in order to look for common points. The results from both projects have been analyzed for identifying more concrete activities which can be carried out. This has given as result a set of feasible activities which could be performed during next months, since tangible results from the projects will be available.

At this stage of COIN, the results produced are the following:

- A baseline platform, which includes basic functionalities regarding dynamic services composition execution, security and negotiation

- A set of baseline services for solving issues related to enterprise collaboration

- A set of baseline services for solving issues related to enterprise interoperability

Although the COIN baseline platform could provide interesting inputs for improving the SOA4All platform, its integration would be very difficult, since the components are expected to work in a concrete context. On the other hand, the baseline services may be an interesting collaboration point, since both SOA4All and COIN could share the basic services developed in each project, in order to increase the services offered to final users. Moreover, there are several ideas and views which can be shared among the projects, which will enrich the results.

COIN could provide to SOA4All some useful results and ideas especially concerning:

- The set of baseline and innovative services developed in the project which could be important assets to increase the number of services provided with the SOA4All platform

- The approach toward trust, security, and dependability: a whole work package will be dedicated to develop an intrinsically secure platform. Since it is expected to be quite independent and SOA4All does not address security, it could be an interesting collaboration point

- The design of a pervasive service platform supporting evolutionary semantics and enabling dynamic behavior of services based on the use of P2P technologies and intended to address the scalability issue

- The idea of focusing on networked enterprises, business process models and virtual organizations as the core for enterprise collaboration

The presence of scenarios involving many SME's (especially from manufacturing sectors), where value chains are involved.

On the other hand, SOA4All contributions to COIN could be identified in:

- The basic services offered in the platform, which may be included in the COIN platform as more baseline services

- The approach towards SOA scalability through a distributed service bus (to be compared with COIN P2P approach)

- General aspects concerning service discovery, engineering and construction (SOA4All editor), taking into account the context management as a way for customizing the services and the business processes developed within the platform

With all these points in mind, possibilities we can figure out some joint activities such as:

- Analyze which services from COIN could be useful for SOA4All and vice versa with the intention to perform concrete activities which will allow sharing the services among the platforms. This could mean to deploy the services and generate service descriptions, according to the required format by each project

- Analyze the applicability of the security framework from COIN in the SOA4All platform. This implies to analyze the architectures and decide whether integration would be feasible and which steps should be performed. Performing the integration itself would need too much effort.

- Collaboration for training and dissemination activities. This could entail the organization of joint workshops or training events and the submission of papers to international conferences. COIN can use its multipliers structure to

increase the impact on the SME's community while SOA4ALL could use its position as NESSI strategic project.

- Share viewpoint and experience on the use of semantic technologies, research performed and ongoing standardization activities. For this purpose, regular meetings between experts can be organized and collaborative tools (forum, wiki, etc…) can be set up Cross validation of business results and requirements applied to different domains. Exchange and discussion of results coming from different end users belonging to different domains through joint meetings
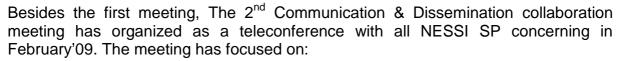
4.6 NESSI

The collaboration between SOA4All and NESSI focuses at the communication level and it is aimed at setting up a bi-directional channel to ensure that the NESSI community is aware of the SOA4All advances and, specifically, its contributions to NEXOF as well as that the SOA4All partners are aware of NESSI advances. As such, NESSI is a major contributor to SOA4All's awareness efforts. In this context, NESSI contributes to the promotion of the SOA4All ideas and evolution by:

- Organizing communication meetings for all NSPs used to define common activities and actively share dissemination opportunities. The 1st meeting was held in 09/2008; the 2nd meeting (conference call) in February 2009 and following meetings will be organized during 2009: The 1st Communication & Dissemination collaboration meeting in Brussels with all NESSI SPs in September'08. Dissemination partners from Morfeo Ezweb, Master, NEXOF-RA, SLA@SOI and SOA4All, have attended this meeting. Main objectives of the meeting are listed below:

   o Presentation of the NESSI communication activity and services available to the NSPs.

   o Presentation by each NSP of its project, main milestones and dissemination activity.

   o Definition of the coordination level between NESSI and NSPs on communication.

Following the presentation, several topics such as the usage of the NESSI logo, the user orientation of the NSPs, the visibility in the Wikipedia, the links to the NESSI web site, the management of events, main NSPs contact points or the Service wave and ICT advertising on the NSPS web sites have been discussed. In addition, the meeting has concluded to three major needs:

   o The positioning of NEXOF should be clear on the NESSI Website.

   o The use cases of the NSPs can be contributed to the NESSI Website for dissemination.

   o The NSPs contribute to NEXOF and this should be clarified with a "contributing to NEXOF" logo.

Besides the first meeting, The 2nd Communication & Dissemination collaboration meeting has organized as a teleconference with all NESSI SP concerning in February'09. The meeting has focused on:

- o Increasing the information channel towards all NSP partners, ensuring that all partners have a clear understanding of NESSI and NEXOF.

- o Increasing the information channel between all NSPs, ensuring that the evolution of their contributions to NEXOF is fully visible and can, therefore, also is made visible at NESSI level and beyond.

- o The creation of a use case section as discussed in the September meeting.

- Including SOA4All in NESSI's communication channels: NESSI contributes to disseminate SOA4All by creating a specific page dedicated to SOA4All on the NESSI Web site. NESSI also includes information about SOA4All in each NESSI newsletter (issued quarterly) and publishes several news about SOA4All in the latest news section of NESSI on the home page. NESSI also select SOA4All as the "focus on" project for one of NESSI's newsletter and creates a specific news page dedicated to the NSPs, that is fed through syndication of the latest news on each NSP's Web site. This provide a central point for the NESSI Community and the NSPs to view all information without unnecessary duplication of effort

- Events for targeted (SOA4All) or collaborative (all NSPs) sessions: A common NSPs session has been organized during the ICT'08. This networking session has been already mentioned in the section 4.2 concerning the NEXOF-RA project. In addition, Service Wave 2008 also has given the NSPs the opportunities to organize workshops and create awareness and participation to their goals. The service wave event has been aimed at establishing the premier European forum for researchers, educators and industrial practitioners to present and discuss the most recent innovations, trends, experiences and concerns in Software Services (or the "Future of the Internet of Services") and related underlying network technologies. Besides of these past events, the 2009 target events include:

  - o EU Collaboration meeting for FP6 and FP7 projects on Objective 1.2. 10-11 June 2009, Brussels, Belgium. A single session for all NSPs has been proposed. Not confirmed yet

  - o Summer School in Heraklion Crete in June'09. Nothing except advertising as this seems already organized.

  - o Service Wave 2009 in Stockholm during December'09 -> NESSI is finalizing the organization in few weeks then announcements and then call for papers and for workshops. The NESSI idea is to push the NSPs to submit a common session there if possible. If in addition, it would be possible to have a common session in the programme, this could be good, maybe focusing on scenarios, users etc as we want to introduce users.

> o FIA in Stockholm during December'09. The NESSI objective is to propose a common session for the NSPs there.

In addition, a list of proposed events will be shared across NSPs (through a private section on the NESSI Web site or other solution currently being analyzed) and a NSP communication mailing has been created in order to enable all NSPs share information between them and with the NESSI Communication team.

4.7   The Future Internet Initiative

To date major collaboration actions between the SOA4All project and the Future Internet Assembly (FIA) has been based on the technical exploitation of synergies as well as on the dissemination activities.

To start with, a technical level, SOA4All participates to the Software and services cluster at the Future Internet Assembly.

In terms of joint dissemination, SOA4All in collaboration with other 63 European Research projects and the European Technology platforms, eMobility, NEM, NESSI, ISI and EPOSS, have signed the BLED declaration. The research projects assembled here in Bled represent the first phase of this public-private partnership, a joint investment of over €400 million, that recognizes the challenges above and emphasizes a concerted and comprehensive process of redesign, based upon novel network, service, trust, security and content technologies together with strong initiatives towards new innovations in societal, governance and service domains, in order to ensure that the Future Internet fulfils its potential.

This declaration has been aimed at fostering favorable Conditions through Coordinated Action, Jointly Designing, Developing and Experimenting and Increasing Awareness at Policy Level. This signature has been collocated in the First edition of the Future Internet Assembly[6] and it has counted with the support of the European Commission, DG Information Society and Media and the sponsors. The event has been organized as one public open day event entitled "Perspectives Emerging from R&D in Europe "where the EU vision about the Future Internet from R&D perspectives has been discussed In addition, this public day has been followed by two-day technical workshop. Bled, Slovenia, April 2008.

Moreover, SOA4All has also participated to the Service Wave '08 event that has taken place in Madrid, Spain in December'08 by:

- Presenting the WP 6 "Service Construction" of SOA4All in the "Systems of Systems" workshop,

- Giving one talk about SOA4All in the "Global Service Delivery Platform Interactive Panel" of the Future Internet Service Offer (FISO) Breakout Session.
- Leading the SOA session.

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http://www.future-internet.eu

This conference has been aimed at ensuring that:

- Cross-domain Future Internet issues are discussed leading to enhance and effective coordination across domains.
- A shared vision emerges of what needs to be done for the future Internet in Europe by Europe.
- EU stakeholders are better positioned in scientific and economic terms regarding the challenges of the Future Internet.

Some planned actions for the short term include attending the next Future Internet Assembly that will take place next May 2009 in Prague. This conference will mark the progress made on the commitments taken by European funded projects when signing the Bled declaration, and to secure other bold co-operation agreements across key players world-wide. This time, the conference will be organized by CESNET Prague, which is a partner in a number of EU research projects, under the auspices of the Czech Presidency of the EU and with the support of the European Commission DG Information Society and Media in Prague.

4.8   Service Web 3.0

Much of SOA4All's contributions towards the Future Internet Initiative are in direct correlation or within the scope of the Service Web 3.0 project. Members of the Service Web 3.0 consortium are responsible for the organization of several working groups within the Future Internet Initiative (e.g. Future Internet Service Offer, Semantic Technology and Ontologies Technical Group) where SOA4All plays a pertinent active role. In doing so, Service Web 3.0 provides the foundation for future community research and technological development in the area of large-scale service architectures and the further utility of semantic technologies. STI International is the leading partner in this collaboration, where SOA4All remains one of the most prevalent projects in cooperation with Service Web 3.0.

4.9   FAST

Besides the existing collaboration plan with the projects and initiatives mentioned above, SOA4All has collaborated with the FAST project in terms of participating to the Collaborative Working Group on Service Front Ends Workshop that has taken place in June 2008 in Madrid, Spain. SOA4All project has been presented by Atos partner in order to strength links with FAST and other related projects that have attended this workshop. Besides this specific collaboration mentioned above, SOA4All would be interested in spread the links to exploit synergies with FAST concerning potential areas of interest to both projects.

The presentation is available on the internet as follows http://sfe.morfeo-project.org/wp-content/uploads/2008/08/SOA4All_project-objectives.pdf

4.10 SPICE

The SPICE project has contacted the SOA4All project coordinator in order to let him know the interest of the SPICE project for approaching SOA4All in terms of technical collaboration. Following this idea, SPICE considers main collaboration areas should

be focused on Web based services at technical level and common dissemination. In this sense, it is expected that collaboration between both projects start in the short term.

5. Conclusions

This document has summarized the existing collaboration plan between SOA4All and other related project after the first period of the project (M12). This new version of the collaboration plan comprises, main past collaboration activities, done between SOA4All and related projects, in terms of technical and joint dissemination as well as actions to take place in the short term have been also considered.

In this sense, all projects/initiatives involved in the Collaboration Plan recognize how important is to keep the flow of information open to other European projects/initiatives in order to facilitate the identification of synergies to exploit. In addition to this, collaboration activities among several projects can generate a more relevant impact and performance as a whole rather than individual level.

This Collaboration Plan is a life folder to be updated in next new versions by considering new projects/initiatives of interest ofSOA4All to collaborate with.

6. References

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