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## D11.1.2 Initialise OASIS WG on SEE With SOA4All Extensions

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| Dissemination Level   |  |   |
| <b>PU</b>   | Public   | X |
| <b>PP</b>   | Restricted to other programme participants (including the Commission)        |   |
| <b>RE</b>   | Restricted to a group specified by the consortium (including the Commission) |   |
| <b>CO</b>   | Confidential, only for members of the consortium (including the Commission)  |   |

## Version History

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| 0.3            | 4 August 2008  | Ready for review                 | Omar Shafiq (UIBK)                      |
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## Glossary of Acronyms

| Acronym | Definition                                    |
|---------|---|
| SOA     | Service Oriented Architecture                 |
| SWS     | Semantic Web Services                         |
| SSOA    | Semantic Service Oriented Architectures       |
| SEE     | Semantic Execution Environments               |
| SOA-RM  | Service Oriented Architecture Reference Model |
| SW      | Semantic Web                                  |
| TC      | Technical Committee                           |

## Executive summary

As a part of SOA4ALL efforts to provide link between research activities and standardisation activities, this deliverable provides a charter for new OASIS Technical Committee for extending OASIS SEE (Semantic Execution Environment) Technical Committee's specifications with SOA4ALL.

OASIS SEE Specifications are based on a Reference Ontology for Semantic Service Oriented Architectures, which provide guidelines, justifications and implementation directions for an execution environment for Semantic Web Services. While the specifications are being finalized by the OASIS SEE TC, this deliverable identifies necessary extensions to the specifications based on SOA4ALL and provides a draft charter for the new OASIS Technical Committee. These extensions include Reference Ontology based on Semantic Annotations to WSDL (SAWSDL), WSMO-Lite as well as User Context.

## 1. Introduction

OASIS SEE (Semantic Execution Environment) TC<sup>1</sup> specifications provide a Reference Ontology for Semantic Service Oriented Architectures [Kerrigan et. al., 2008] that initiates guidelines for building systems to enable automatic or semi-automatic automation of Web Service discovery, selection, composition, negotiation, mediation, invocation and interoperation of multiple services based on semantic descriptions. These specifications foster compatibility across specifications developed for Semantic Web Services. The TC also provides a platform for researchers and developers from academia and industry to facilitate understanding, awareness and possible collaborations regarding emerging semantic technologies and applicable to semantic-aware Web Services.

SOA4ALL will play an important role in continuing and enhancing these standardization activities, as being a large European Integrated Project in the similar domain with innovations of realizing a Service Web where billions of parties are exposing and consuming services based on advanced Web technology. It includes Web principles, Web 2.0, Semantic Web and Context Management.

This deliverable aims to initialize an OASIS working group on SEE (Semantic Execution Environment) with SOA4ALL extensions. The current specifications of OASIS SEE TC provide a head start towards the standardization, and the new OASIS working group will continue and enhance the specifications based on the Service Web principles.

The new technical committee will take the current SEE TC specifications and will enhance it further based on different aspects that will be covered by SOA4ALL. It will also take into account Web 2.0 principles for service deployment, use, service provisioning, consumption, monitoring and management. SOA4ALL will further investigate and build a fundamental semantic infrastructure for Web scale SOA and enabling improvements in service discovery and consumption. Context factors for services will also be investigated, that range from immediate concerns of location and language to legal issues and financial regulation. Service crawling, indexing, ranking and selection will also be investigated that will give users ability to find and locate services. Parameters for adaptive service composition will be taken into account that will allow users to automatically construct complex services as required.

The new OASIS Technical Committee will address all these new findings from SOA4ALL and extend the specifications of Semantic Execution Environment in order to enable it to cope up with the latest advancements in the World-Wide-Web.

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<sup>1</sup> <http://www.oasis-open.org/committees/semantic-ex/>

## 2. Plan for Initialization of extended OASIS SEE TC

Following are the steps that will be taken towards initializing standardization work on extending Reference Ontology for Semantic Service Oriented Architectures based on SOA4ALL:

1. Investigate the OASIS TC formation process
2. Investigate OASIS standardization process
3. Identify the extensions in the that will be made by SOA4ALL in SEE specifications
4. Prepare draft charter for new OASIS TC, for extending SEE with SOA4ALL extensions
5. To be in contact with the current OASIS SEE (Semantic Execution Environment) Technical Committee
6. Submit the extended charter to the OASIS
7. Start working on the new OASIS SEE Technical Committee, and report its status in D11.1.3 (Status report on the progress of OASIS, OMG and W3C) by Month 18.

This deliverable is called as “Initialize OASIS working group on SEE with SOA4ALL extensions”, however, due to the long processes involved and due to the dependency with different work-packages in SOA4ALL, it only contains the plan and extended charter. Once approved by current OASIS SEE TC, the charter for the new TC will be submitted to OASIS.

### 3. OASIS Standardization Process

OASIS (Organization for the Advancement of Structured Information Standards) is a not-for-profit consortium that drives the development, convergence and adoption of open standards for the global information society. The consortium produces more Web services standards than any other organization along with standards for security, e-business, and standardization efforts in the public sector and for application-specific markets. Founded in 1993, OASIS has more than 5,000 participants representing over 600 organizations and individual members in 100 countries<sup>2</sup>.

OASIS has a Board of Directors. Sponsors and contributors of the consortium nominate members of the Board of Directors in an open election process. Currently, the board<sup>3</sup> consists of members from well-known international organizations and companies, i.e. IBM, BEA, Fujitsu, Nokia, Nortel, Oracle, SAP AG etc.

OASIS further has a Technical Advisory Board that consists of industry experts who provide guidance on issues related to strategy, process, interoperability, and scope of OASIS technical work. OASIS standards are called as “Standards” which are developed by Technical Committees (TCs). The sections below outlines the official procedure to start a new TC and standardization approval process in OASIS<sup>4</sup>.

#### 3.1 Procedure to form a new TC

Any group of at least Minimum Membership shall be authorized to begin a TC by submitting to the OASIS TC Administrator the following items, written in English and provided in electronic form as plain text. No information other than these items may be included in the proposal.

(1) The Charter of the TC, which includes only the following items:

- a) The name of the TC, such name not to have been previously used for an OASIS TC and not to include any trademarks or service marks not owned by OASIS. The proposed TC name is subject to TC Administrator approval and may not include any misleading or inappropriate names. The proposed name must specify any acronyms or abbreviations of the name that shall be used to refer to the TC.
- b) A statement of purpose, including a definition of the problem to be solved.
- c) The scope of the work of the TC, which must be germane to the mission of OASIS, and which includes a definition of what is and what is not the work of the TC, and how it can be determined when the work of the TC has been completed. The scope may reference a specific contribution of existing work as a starting point, but other contributions may be made by TC Members on or after the first meeting of the TC. Such other contributions shall be considered by the TC Members on an equal basis to improve the original starting point contribution.
- d) A list of deliverables, with projected completion dates.
- e) Specification of the IPR Mode under which the TC will operate.
- f) The anticipated audience or users of the work.

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<sup>2</sup> <http://www.oasis-open.org/who>

<sup>3</sup> <http://www.oasis-open.org/who/bod.php>

<sup>4</sup> <http://www.oasis-open.org/committees/process.php>



- g) The language in which the TC shall conduct business.

(2) Non-normative information regarding the startup of the TC, which includes:

- a) Identification of similar or applicable work that is being done in other OASIS TCs or by other organizations, why there is a need for another effort in this area and how this proposed TC will be different, and what level of liaison will be pursued with these other organizations.
- b) The date, time, and location of the first meeting, whether it will be held in person or by telephone, and who will sponsor this first meeting. The first meeting of a TC shall occur no less than 30 days after the announcement of its formation in the case of a meeting held exclusively by telephone or other electronic means, and no less than 45 days after the announcement of its formation in the case of a meeting held face-to-face (whether or not a telephone bridge is also available).
- c) The projected on-going meeting schedule for the year following the formation of the TC, or until the projected date of the final deliverable, whichever comes first, and who will be expected to sponsor these meetings.
- d) The names, electronic mail addresses, and membership affiliations of at least Minimum Membership who support this proposal and are committed to the Charter and projected meeting schedule.
- e) The name of the Convener who must be an Eligible Person.
- f) The name of the Member Section with which the TC intends to affiliate, if any.
- g) Optionally, a list of contributions of existing technical work that the proposers anticipate will be made to this TC.
- h) Optionally, a draft Frequently Asked Questions (FAQ) document regarding the planned scope of the TC, for posting on the TC's website.
- i) Optionally, a proposed working title and acronym for the specification(s) to be developed by the TC.

No later than 5 days following the submission, the OASIS TC Administrator shall either return the submission to its originators, with an explanation indicating its failure to meet the requirements set forth in this section, or shall post notice of the submission to an announced mailing list (or equivalent method) visible to the submission proposers and the OASIS Membership, for comment.

## **3.2 OASIS Standards approval Process**

### **3.2.1 Approval of a Committee Draft**

The TC may at any stage during development of a specification approve the specification as a Committee Draft. The approval of a Committee Draft shall require a Full Majority Vote of the TC. The TC may approve a specification, revise it, and re-approve it any number of times as a Committee Draft.

### 3.2.2 Public Review

Before the TC can approve its Committee Draft as a Committee Specification the TC must conduct a public review of the work. The decision by the TC to submit the specification for public review requires a Full Majority Vote, and must be accompanied by a recommendation from the TC of external stakeholders who should be notified of the review. The Committee Draft approved to go to review shall be called a Public Review Draft. The public review must be announced by the TC Administrator to the OASIS Membership list and optionally on other public mail lists; the TC Administrator shall at the same time issue a call for IPR disclosure.

Comments from non-TC Members must be collected via the TC's archived public comment facility; comments made through any other means shall not be accepted. The TC must acknowledge the receipt of each comment, track the comments received, and publish to its primary e-mail list the disposition of each comment at the end of the review period.

No changes may be made to the Public Review Draft during a review. If changes are required the specification must be withdrawn from review then resubmitted.

The TC may conduct any number of review cycles (i.e. approval to send a Committee Draft to Public Review, collecting comments, making edits to the specification, etc.). The first public review of a specification must take place for a minimum of 60 days, and any subsequent reviews must be held for a minimum of 15 days. Changes made to a specification after a review must be clearly identified in any subsequent review, and the subsequent review shall be limited in scope to changes made in the previous review. Before starting another review cycle the specification must be re-approved as a Committee Draft and then approved to go to public review by the TC.

If Substantive Changes are made to the specification after the public review, whether as a result of public review comments or from TC Member input, then the TC must conduct another review cycle. The specification may not be considered for approval by the TC as a Committee Specification until it has undergone a review cycle during which it has received no comments that result in Substantive Changes to the specification.

### 3.2.3 Approval of a Committee Specification

After the public review of a Public Review Draft the TC may approve the specification as a Committee Specification. If any comments have been received during the most recent Public Review period, that vote may not commence any earlier than 7 days after the last day of that Public Review. The approval of a Committee Specification shall require a Special Majority Vote. The TC Chair shall notify the TC Administrator that the TC is ready to vote on the approval of the specification, and provide to the TC Administrator the location of the editable versions of the specification files. The TC Administrator shall set up and conduct the ballot to approve the Committee Specification.

### 3.2.4 Approval of an OASIS Standard

Simultaneously with the approval of a Committee Specification or at a later date, and after three Statements of Use have been presented to the TC, a TC may resolve by Special Majority Vote to submit the Committee Specification to the Membership of OASIS for consideration as an OASIS Standard. Upon resolution of the TC to submit the specification, its Chair shall submit the following items to the TC Administrator:

- a) Links to the approved Committee Specification in the TC's document repository, and any appropriate supplemental documentation for the specification, both of which must be written using the OASIS templates. The specification may not have been changed between its approval as a Committee Specification and its submission to OASIS for

consideration as an OASIS Standard, except for the changes on the title page and running footer noting the approval status and date.

- b) The editable version of all files that are part of the Committee Specification;
- c) Certification by the TC that all schema and XML instances included in the specification, whether by inclusion or reference, including fragments of such, are well formed, and that all expressions are valid;
- d) A clear English-language summary of the specification;
- e) A statement regarding the relationship of this specification to similar work of other OASIS TCs or other standards developing organizations;
- f) The Statements of Use presented above;
- g) The beginning and ending dates of the public review(s), a pointer to the announcement of the public review(s), and a pointer to an account of each of the comments/issues raised during the public review period(s), along with its resolution;
- h) An account of and results of the voting to approve the specification as a Committee Specification, including the date of the ballot and a pointer to the ballot;
- i) An account of or pointer to votes and comments received in any earlier attempts to standardize substantially the same specification, together with the originating TC's response to each comment;
- j) A pointer to the publicly visible comments archive for the originating TC;
- k) A pointer to any minority reports delivered by one or more Members who did not vote in favour of approving the Committee Specification, which report may include statements regarding why the member voted against the specification or that the member believes that Substantive Changes were made which have not gone through public review; or certification by the Chair that no minority reports exist.

The above submission must be made by the 15th of any month to the TC Administrator, who shall have until the end of the month to complete administrative processing and checking for completeness and correctness of the submission. If the submission is incomplete it shall be rejected but may be resubmitted at a later time.

The TC that originated the specification may resolve by Special Majority Vote to withdraw the proposed specification at any point after it is submitted to the TC Administrator for administrative processing and before the start of the voting period. No part of the submission may be changed or altered in any way after being submitted to the TC Administrator, including by Errata or corrigenda. Errata, corrigenda or other changes to a Committee Specification are not permitted after its submission for OASIS Standard approval; if changes are required the Committee Specification must be withdrawn by the TC, edited, re-approved as a Committee Specification, and then may be resubmitted as a proposed OASIS Standard. Proposed changes of any kind to a Committee Draft or Committee Specification may be maintained by a Technical Committee, but do not have any approval status until incorporated into a revised Committee Draft or Committee Specification.

The TC Administrator shall submit the proposal to the OASIS Membership by the first day of the following month. The first 15 days of that month shall be used by the membership to familiarize themselves with the submission. Voting shall start on the 16th of the month. The voting representatives of those OASIS Organizational Members who were members at the beginning of the familiarization period are eligible to vote, and must cast their ballots by the end of the month.

In votes upon proposed OASIS Standards, each OASIS Organizational Member shall be entitled to cast one vote. Votes shall be cast via the publicly archived electronic voting facility supplied by OASIS. Ballots shall be publicly visible during voting and may be changed up until the end of the voting period. The results of a vote on a proposed standard shall be provided to the membership and to the TC no later than seven days following the close of the voting period.

If at the end of the voting period at least 15 percent of the voting OASIS Membership has voted to approve the proposed standard, and if no votes have been cast to disapprove the proposed standard, it shall become an OASIS Standard immediately following the end of the voting period. If negative votes have been cast amounting to 25 percent or more of the votes cast, or if less than 15 percent of the voting OASIS Membership has cast positive votes to approve the proposed standard, the ballot is deemed to have failed and the submission fails.

However, if negative votes are cast amounting to less than 25 percent of the votes that have been cast, the TC shall be notified of the negative votes, after which the TC shall have 30 days to take one of the following actions by Resolution of a Special Majority Vote: (a) request the TC Administrator to approve the specification as submitted despite the negative votes; (b) withdraw the submission entirely; or (c) submit an amended specification, in which case the amended submission shall be considered as if it were a new submission, except that information regarding previous votes and any disposition of comments received in previous votes shall accompany the amended submission. If the originating TC upon notification of negative votes takes no formal action within the 30 days allocated for consideration of the results, then the specification shall not become an OASIS Standard.

Failure of a ballot for any reason shall not prevent a later version of the same specification from being submitted again as specified in this section.

No changes may be made to the specification after approval as an OASIS Standard except for the changes on the title page and running footer noting the approval status and date.

### 3.2.5 Approved Errata

A TC may approve a set of Errata to an OASIS Standard as "Approved Errata" to the corrected specification by:

- a) Adopting the set of proposed corrections as a Committee Draft, in the form of a list of changes, and optionally accompanied by a copy of the original specification text marked to incorporate the proposed changes.
- b) Confirming by Full Majority Vote that the proposed corrections do not constitute a Substantive Change.
- c) Submitting the proposed corrections for a 15-day public review, and completing that review, pursuant to Section 3.3.
- d) After the public review, confirming the proposed corrections as Approved Errata by a Full Majority Vote.

Once approved, the Approved Errata shall be with the specification it corrects, in any publication of that specification. Disposition of Approved Errata must be identified in the subsequent Public Review Draft of the corrected specification.

A TC may not adopt Approved Errata to an OASIS Standard more than once in any consecutive six-month period.



## 4. Draft Charter of OASIS TC on SEE with SOA4ALL extensions

This section drafts the main element of the proposed new OASIS Technical Committee on Semantic Execution Environments (SEE) with SOA4ALL extensions. The mission of new Technical Committee is to take the current SEE TC specifications and extend it based on the work in SOA4ALL and align it with the latest developments in the Web, i.e. Web-scale principles, Web 2.0, Semantic Web and Context Management. The new TC is named as OASIS ServiceWeb Technical Committee.

**End Date:** 31 March 2010

**Confidentiality:** Public

**Initial Chairs:** To be decided

**Initiating Members:** University of Innsbruck, current members of OASIS SEE TC, and other SOA4ALL consortium members

**Usual Meeting Schedule:** Telephone conferences every 2 to 4 weeks, face-to-face meetings 1 to 2 times a year (as required)

### 4.1 Name of the TC

OASIS ServiceWeb Technical Committee

### 4.2 Statement of Purpose

ServiceWeb is a new vision for the future internet where individuals, companies and devices will provide, consume and interact and use services on a large scale. It will require to bring together the scalable user interaction of the fundamental World-Wide-Web architecture and principles, the rich and participatory user experience of interactive Web 2.0 applications and support for discovery, selection and combination of services from SOA, and the Semantic Web technology to allow these tasks to take place in automatically and transparent to the users. Semantic Web Services contribute to this vision by automating the process of discovery and interaction with services using semantic descriptions.

The OASIS SEE TC provides a specification as Reference Ontology for Semantic Service Oriented Architectures. It helps in providing the guidelines to the relevant research and industrial community in building the systems to realize the Semantic Web Services. It is a first step towards standardizing the Semantic Execution Environments, that specifies how semantics can be used to automate the functionality of SOA. By using ontologies to describe services in SOA, machines can reason about the functionality they provide, the mechanism to invoke them, and the data they expect as input and return as output. Services in real-world have syntactic description (i.e., a WSDL) will also have a semantic description in some formalism. Thus, services within a Semantic SOA are not a reinvention of services, but an enhancement of them. In order to provide an effective and standardized way to describe the services semantically, the Reference Ontology for Semantic Service Oriented Architectures plays its role and identifies the key elements that are needed to be modeled within the semantic description.

OASIS ServiceWeb Technical Committee aims to continue the work done by OASIS Semantic Execution Environment (SEE) Technical Committee. It will extend the Reference Ontology in order to enable it to comply with the latest developments in the World-Wide-Web.

The new TC will also enhance the OASIS SEE TC Reference Ontology to make it usable in a Web-scale environment, which include following principles as depicted in [Di Nitto et. al., 2008]:

- Heterogeneity
- Global-access mechanisms
- Semantic provisioning of services
- Decentralized dynamicity and adaptability of services
- Matching of users requests and service descriptions
- Managing complex interaction between users and services
- Enabling both machine and human-based computation

The OASIS ServiceWeb TC's efforts will foster enabling the OASIS SEE TC's specifications to be compliant with the latest developments in the Web. It will further ensure compatibility across specifications developed for Web in general, Semantic Web, Web Services and Semantic Web Services, and where possible re-use existing standards and methods. This TC will engage with industry, academic and research communities to facilitate understanding, awareness and possible collaborations regarding emerging semantic technologies and research applicable to semantic-enabled Web Services on Web-scale.

### 4.3 Scope

The current specifications of OASIS SEE TC provide a standardized way to model the services in Service Oriented Architectures using semantics. It will enable automatic or semi-automatic discovery, negotiation, selection and composition, mediation, invocation and interoperation of multiple services. The new OASIS ServiceWeb TC will further enhance these specifications in order to enable it fulfilling ServiceWeb vision, to cope with Web-scale usage, and to make it compatible with latest developments in the Web.

The OASIS ServiceWeb TC will also provide an Web-scale test-bed for Semantic Web Services, which is anticipated as a contribution for use by the TC on a non-exclusive basis, and will seek to demonstrate the viability of using Semantic Web Services in ServiceWeb scenario.

The TC will provide principles, architecture and information model for ServiceWeb that will allow Semantic Execution Environment (SEE) to operate in open, heterogeneous, distributed and decentralized Web-based scenario. While the focus of this group will remain on a high level semantic description of components interfaces, the TC will seek cooperation with any other related working groups on semantics-enabled functional components that fulfil the requirements of such system.

The SEE TC specifications will be enhanced based on the Service Web principles, Web 2.0, Semantic Web and Context Management. The current SEE specifications [Kerrigan et. al., 2008] states that “Although *Execution Context* and *Contracting & Policy* are all important issues for SOA, they are less mature and less ready for standardisation”. However, these concepts are very important for SOA4ALL Context is among the main pillars of SOA4ALL project.

Furthermore, following points from SOA4ALL work will be taken into consideration for extending the OASIS SEE specifications:

- Revising the Reference Ontology based on SA-WSDL and WSMO-Lite conceptual

model for Semantic Web Services

- Service deployment and use including service provisioning, service consumption, service monitoring and management
- Service annotation and reasoning frameworks for service descriptions available over the Web
- Contextual factors for appropriate service use
- Service Location, indexing, crawling and adaption
- Attributes for improving service ranking and selection
- Parameters for adaptive service composition

The SEE TC will not implement actual software products or solutions based on the specifications developed along the course of work of this group.

#### 4.4 Deliverables

This OASIS ServiceWeb Technical Committee will develop an extended version of Reference Ontology for Semantic Service Oriented Architectures, but also may elect to issue Technical Reports and White Papers.

- ServiceWeb Architecture and Information Model - final version should be available by March 2010 – the TC may issue intermediate versions as frequently as every 6 months
- ServiceWeb specifications - final version should be available by March 2010 – the TC may issue intermediate versions as frequently as every 6 months
- Technical Reports will be drafted as appropriate
- White Papers will be drafted as appropriate

#### 4.5 IPR Mode

The OASIS ServiceWeb TC will operate under "RF on Limited Terms" mode.

#### 4.6 Anticipated Audience

The anticipated audience includes all OASIS Web Service, SOA and ebXML TCs, non-OASIS Web Service standards groups, Semantic Web Services research and interest groups, SOA architects and programmers, vendors and users. The work should be of interest to anyone involved with Semantic Web Services and more generally also in Service Oriented Architectures (SOAs), i.e.

- Architects and developers designing, identifying or developing a system based on the Service Oriented Architectures;
- Standards architects and analysts developing specifications that rely on Service Oriented Architecture concepts;
- Decision makers seeking a "consistent and common" understanding of Service



Oriented Architectures;

- Users who need a better understanding of the concepts and benefits of Service Oriented Architectures;
- Academics and researchers that are researching within the Semantic Web and Semantic Web Service communities;
- I.T. consultants that provide businesses with support on Semantic technologies and SOAs in general.

## 4.7 Language

The OASIS ServiceWeb TC will use English. However, the TC may elect to form subcommittees that produce localized documentation of the TC's work in additional languages.

## 5. Conclusions

SOA4ALL aims to contribute significantly in the standardization activities. This deliverable aims to initialize a new Technical Committee named as OASIS ServiceWeb TC that will enhance the specifications produced by OASIS SEE (Semantic Execution Environment) TC. Overall work plan for initializing the Technical Committee, OASIS new TC for formation and standardization process have been reviewed in this deliverable. The deliverable further provides draft charter of the proposed TC. Based on the input received further from other work-packages in SOA4ALL, the charter of the new TC will be finalized and sent to OASIS for approval.

## 6. References

1. Kerrigan et. al., 2008. M. Kerrigan, B. Norton, A. Mocan (Editors): “Reference Ontology for Semantic Service Oriented Architectures”, OASIS SEE (Semantic Execution Environment) Technical Committee specifications, Release Candidate, June 2008. Available at [http://www.oasis-open.org/apps/org/workgroup/semantic-ex/document.php?document\\_id=27923](http://www.oasis-open.org/apps/org/workgroup/semantic-ex/document.php?document_id=27923)
2. Di Nitto et. al., 2008. E. Di Nitto, R. González-Cabero, C. Hamerling, J. Kopecký, O. Shafiq, T. Vitvar, L. Xu: Design Principles for a Service Web, Project Deliverable D1.1.1, EU FP7 SOA4ALL project, August 2008.