OSLC Overview for OASIS Board

February 2015

Open Services for Lifecycle Collaboration
Lifecycle integration inspired by the web
✓ OSLC Past and Present – Steve Speicher

- Community and Partnering – Bill Chown
- OASIS Staff, Tools and Policies – Steve Speicher
- What’s next for OSLC – Dave West, Mark Schulte
The OSLC Steering Committee

Rainer Ersch
Senior Research Scientist
Siemens

Andreas Keis
Head of Systems Engineering Processes and Platforms
AirBus Group

Bill Chown
Product Marketing Director
Mentor Graphics Corporation

Mark D. Schulte
Associate Technical Fellow
Boeing

Dave West
Chief Product Officer
Tasktop

Mats Berglund
Enterprise Architect
Ericsson AB

John Wiegand
Distinguished Engineer & Chief Architect
IBM Rational
(Steering Committee Chair)

OSLC StC Staff Members:

Nelson Jean
Operations Coordinator

Steve Speicher
Technical Coordinator

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OSLC – Who’s involved?

Member Section Members

Technical Committees are Driving Growth of Participation
Why? The Integration Problem

Point-to-point Integrations don’t scale

Monocultures lock you in

Maintenance, management, and change costs go up over time

Ongoing and unexpected costs drain resources

Creating new integrations is unpredictable

Past choices restrict present action and future vision

End-user productivity suffers: Either stuck with the wrong tool, stuck doing manual integration; often stuck doing both

Integrations consume more of the IT budget: integration failures are the top 2 causes of software project delays*

More limited ability to respond to change
Constrained by exhausted IT budget and lower productivity

* Commissioned study conducted by Forrester Consulting on behalf of IBM.

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OSLC’s Simple Solution

Users can work seamlessly across their tools

Architecture of the Web
Linked Data
Minimize data duplication
Increased reuse
Decreased maintenance costs

Standard Interfaces
Automation
“Just Enough” integration
Increased traceability
Better visibility

OSLC is an open and scalable approach to lifecycle integration. It simplifies key integration scenarios across heterogeneous tools.
OSLC History Lesson (through October 2013)

OSLC announced: a revolutionary way to make application integrations simple & effective, building on the experience of the Web and the Jazz Platform

OSLC Change Mgmt is the first WG: scenario discussions will lead to a draft, implementations, and the V1 spec

OSLC Architecture matures: OSLC Core WG founded, it will serve as the common basis for the OSLC V2 specs

OSLC V2 specs start finalizing: there are a growing number of implementations, many popular ALM tools are made available through adapters using a façade pattern

W3C Linked Data Platform WG approved: Parts of OSLC Core V2 spec contributed and used as the seed document; OSLC Core V3 work started with plans to rebase off of this future W3C Standard

OSLC Governance Matures: More rigorous IP policies introduced and Steering Committee created; members from: Accenture, Creative Intellect, EADS, IBM, Siemens, and Tasktop

OSLC WGs start to address new segments: DevOps and Product Lifecycle Management first, Integrated Systems Management follows

Many new WGs get started, including: Quality Mgmt, Requirements Mgmt, and Architecture Mgmt

Eclipse Lyo project created: it is to become the resource for OSLC developers

OSLC Core TC co-founded by Ericsson, fluid Operations, IBM, KTH, Software AG, and Tasktop

First OSLC Member Section Election: Boeing joins the Steering Committee

OSLC Member Section at OASIS created by 22 co-founders

OSLC Steering Committee votes to pursue OASIS: The plan that will eventually see OSLC specification development happen at OASIS is approved

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OSLC Architecture matures: OSLC Core WG founded, it will serve as the common basis for the OSLC V2 specs

OSLC Change Mgmt V1 spec released: impls available from 3 vendors and in open source

OSLC announced: a revolutionary way to make application integrations simple & effective, building on the experience of the Web and the Jazz Platform

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What’s next for OSLC – Dave West, Mark Schulte?
The Organizational Vision for OSLC

OSLC Member Section at OASIS

Steering Committee
Subcommittees
Technical Committees
Open Services
Implementer's Expo
User Groups
Forums
Resources and Tutorials

open-services.net

Use what you need, share what you can.

W3C LDP WG

Eclipse Lyo
Libraries
Test Suites
Reference Implementations

OSLC4Net

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OSLC: Collaborating across the industry

ProSTEP iViP Association
http://www.prostep.org/

European Safety-Critical Interoperability Specification
http://www.crystal-artemis.eu/

OSLC Member Section
http://oasis-oslc.org

Linked Data Platform Working Group
http://LinkedDataPlatform.org

The Resource for OSLC Implementers
http://eclipse.org/lyo

INCOSE
International Council on Systems Engineering

Tool Integration and Interoperability Working Group

OMG
Systems Engineering DSIG:
OSLC4MBSE Working Group
Outline

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- Community and Partnering – Bill Chown

✓ OASIS Staff, Tools and Policies – Steve Speicher
- What’s next for OSLC – Dave West, Mark Schulte?
Spec Development Update

Scope

- OASIS Core 3.0
- OASIS Change Management 3.0
- Requirements Management 3.0
- Quality Management 3.0
- Architecture Management 3.0
- OASIS Automation 3.0
- Asset Management 2.0
- Performance Monitoring 2.0
- Reconciliation 2.0
- OASIS Configuration Management 1.0
- Estimation and Measurement 1.0
- PLM/ALM

Draft

- Communication
- Website

Converge

Finalize

Activity

- Active
- Some activity
- Near 0 activity
OSLC MS Affiliated TC Roadmap*

*roadmap subject to change, dependent on contributions in TC

<table>
<thead>
<tr>
<th>TC</th>
<th>Kickoff TC</th>
<th>Public Review Drafts</th>
<th>Committee Specifications</th>
<th>OASIS Standard</th>
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<tbody>
<tr>
<td>Core TC</td>
<td>✓ Done</td>
<td>❑ Mar ‘15</td>
<td>❑ Jun ‘15</td>
<td>❑ Dec ‘15</td>
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<tr>
<td>CCM TC</td>
<td>✓ Done</td>
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<td>Automation TC</td>
<td>✓ Done</td>
<td>❑ Mar ‘15</td>
<td>❑ Sep ‘15</td>
<td>❑ Jan ‘16</td>
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<tr>
<td>PROMCODE TC</td>
<td>✓ Done</td>
<td>❑ TBD ‘15</td>
<td>❑ TBD</td>
<td>❑ TBD</td>
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<tr>
<td>RAQ Mgmt TC (early proposal)</td>
<td>❑ TBD</td>
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Dec ‘14 — Jun ‘15 — Dec ‘15

- Core
- Change and Configuration Mgmt
- Automation
- PROMCODE
- Requirements, Architecture, and Quality Mgmt
- Staff has been very helpful on all aspects: Steering Committee, Member Section, Budgets, Events, TC creation/operation, policy clarification

- Some timeliness issues when executing liaison agreement with ProSTEP

- Specification Development
  - Most TC members came from authoring specifications in wiki or W3C (ReSpec)
  - Wanted to move to more assistance in developing specifications from schemas and shapes
  - Leveraged ReSpec tooling and made changes to support these goals

- Publishing RDF vocabularies
  - Worked with staff on process/policies to allow for smooth transition and co-existence of pre-TC vocabularies and new
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Aspirations for OSLC

(From the OSLC Steering Committee)

- Foundational technology for all integration
- The household name for integrations
- Natural choice for standardizing loosely-coupled integrations in new domains
Integration Patterns

- Collect and develop a set of high-level integration patterns

- Consumers of patterns will:
  - Ease in to traditional OSLC solutions
  - Understand alternatives
  - Prioritize gaps (spec/solution needs)

- Leverage upcoming OSLC events to expand on – InterConnect 2015 (feb)
Outreach in 2015 (key events)

- **IBM InterConnect**
  - Pre-conference event discussing OSLC priorities
  - Panel on integration best practices
  - Face-to-face Steering Committee meeting
  - Goals would be to set priorities for 2015, expand community and develop first wave of integration patterns

- **ALM Forum**
  - (proposed) General session, welcome reception, booth
  - Goals would be to expand the community and get validation on integration patterns

- **INCOSE**
  - Held workshop on OSLC and MBSE at IW
  - Planning for IS, good viral presence in 2014
  - Goals to further advance OSLC with Systems Engineering
**OSLC Governance History**

- **IBM de facto governance (with community support)**
- **Steering committee**
  - Multi-organization steering committee established
  - New governance model introduced
- **OASIS**
  - Internationally recognized independent SDO
  - Formal support from 22 organizations (at launch)
  - Participation governed by established OASIS model

<table>
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<tr>
<th>Community governance of OSLC</th>
<th>June 2012</th>
<th>May 2013</th>
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<td>IBM de facto governance</td>
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The Basics: What is OSLC, and why should I care?

OSLC is an open community building practical specifications for integrating software

- **Tool Maker**
  - create software using reusable and open assets that will interoperate with other tools both inside and outside your influence, providing time and cost savings

- **Tool Manager**
  - reduce the complexity and risk of increasingly complex software infrastructures, and improve the value of software across a broader set of internal and external stakeholders

- **Tool User**
  - choose the best tools for your job and have them interact seamlessly to achieve traceability and visibility with the rest of your organization

- **Systems Integrator**
  - focus energy and resources on higher-value customizations, deliver more business value to your clients, and increase client satisfaction

OSLC is beneficial to many stakeholders

Contributing Organizations: [http://oslc.co/organizations](http://oslc.co/organizations)
## Why OSLC and Standardizing at OASIS Matters

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<th><strong>Software runs the world</strong></th>
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<td>But it is heterogeneous and disjoint</td>
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<td>And it needs to be integrated</td>
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<td>Traditional approaches to software integration require custom software</td>
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<td>Custom software is expensive to maintain and a limit on future choice</td>
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<td><strong>Custom integrations drive software TCO higher and limit choice</strong></td>
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<td>Open standards are key enablers for broad and large-scale integration</td>
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<td>OSLC standards simplify lifecycle integration leading to cost savings and increased flexibility</td>
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<td><strong>OSLC is helping the world run more efficiently</strong></td>
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<td>Standardizing OSLC at OASIS will increase adoption and acceptance of OSLC</td>
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<td><strong>The world will benefit from standardized integration through OSLC</strong></td>
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OSLC: Standardizing the sharing of lifecycle data

Scenario-driven & Solution-oriented
Leading choice for strategic integration technology
Generally applicable: specs available for many domains covering ALM, DevOps, ISM, and PLM

Open Services for Lifecycle Collaboration
Lifecycle integration inspired by the web

Linked Data Platform Working Group

Based on and Shaping the Future of Internet Architecture

Eclipse Lyo
Enabling tool integration with OSLC

The Resource for OSLC Implementers

OSLC Member Section

Open and Independent Governance and Leadership

OSLC: Inspired by the web
Proven
Open
Innovative

Changing the industry
Free to use and share

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Active specification work continues at open-services.net until those specs are contributed to an affiliated TC at OASIS
The Integration Problem: Implications to EADS

We must

- Respond to Change
- Deliver on Time
- Trust our Data

SO MUCH SOFTWARE NEEDS SO MUCH INTEGRATION!

Each discipline requires its own

big vendors
niche vendors
open source
homegrown
OSLC’s Innovative Solution: GM Experience

OSLC ALM-PLM Interoperability workgroup leadership

Collaborate with vendors and other interested users to have our scenarios addressed by OSLC.

OSLC ALM-PLM integration POC

To achieve our “musts” we must have a whole system view across all disciplines, as deep as they go.

Integrated software is one cost of creating perfectly integrated automobiles for our customers. OSLC helps minimize that cost and maximize the innovation our customers see in the cars they buy.
Ericsson’s view on the importance of OSLC

› We need OSLC for cheaper, quicker and better integrations and visualisations
› OASIS OSLC standards will drive new implementations from our many suppliers
› OASIS standardization process will help us drive new scenarios into future OSLC standards