

OSLC Specifications and Reference Implementation – Overview

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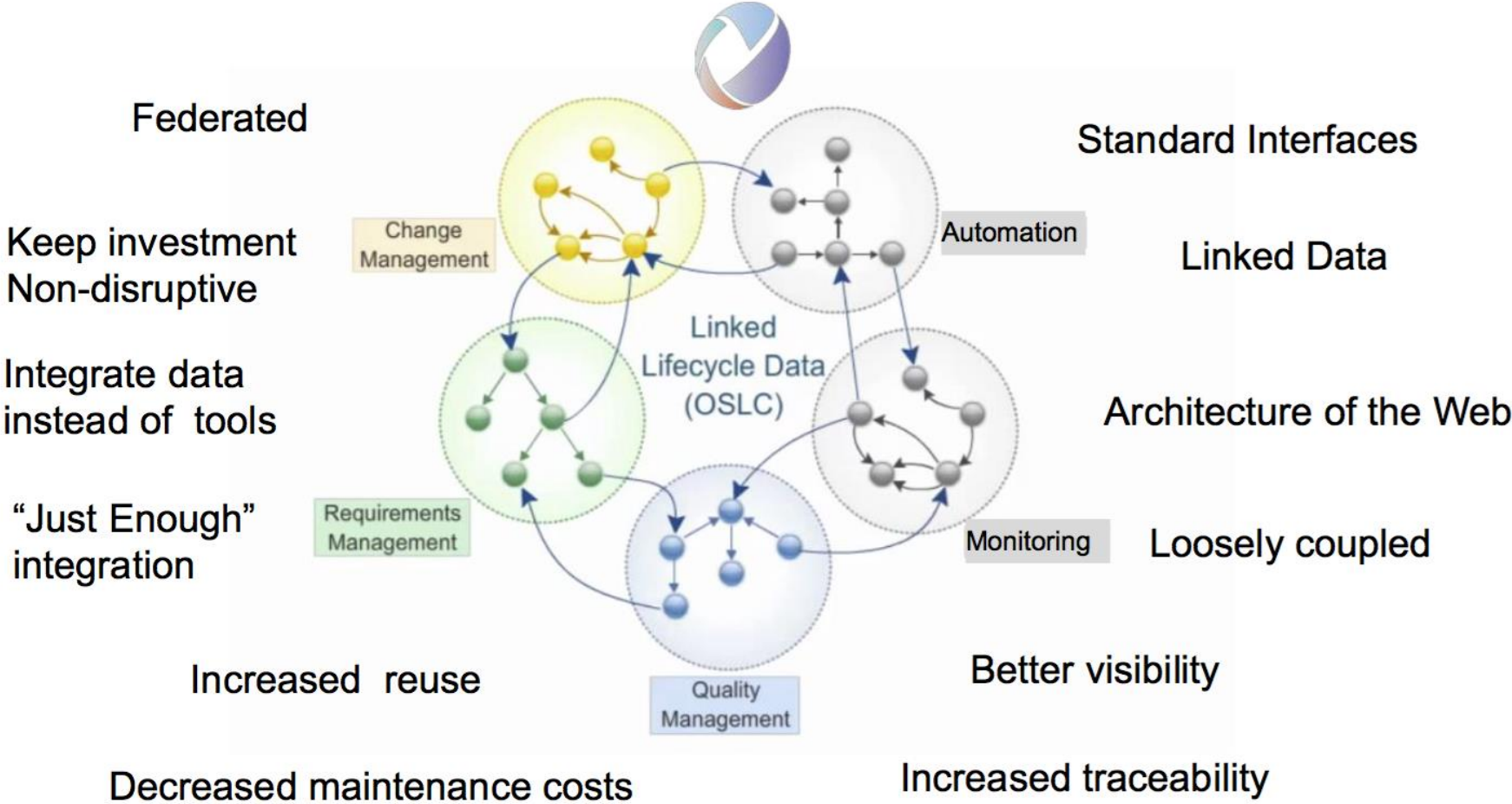
Workshop on Life-cycle Interoperability – OSLC In Practice

Nov. 2nd 2015, Ludwigsburg

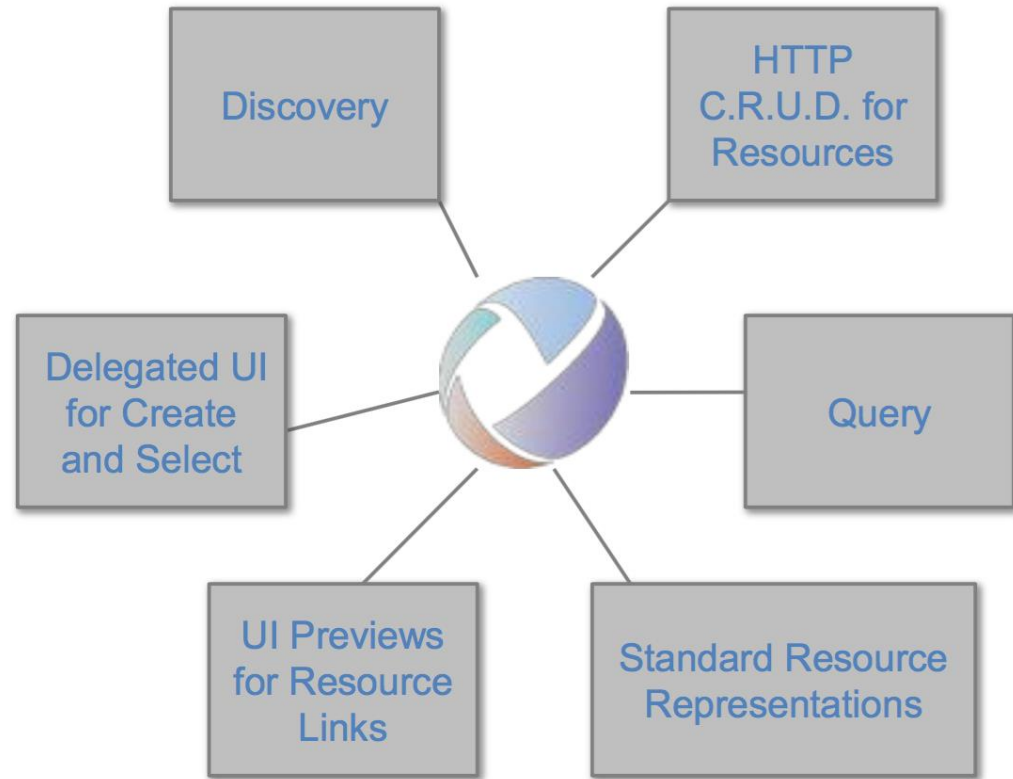
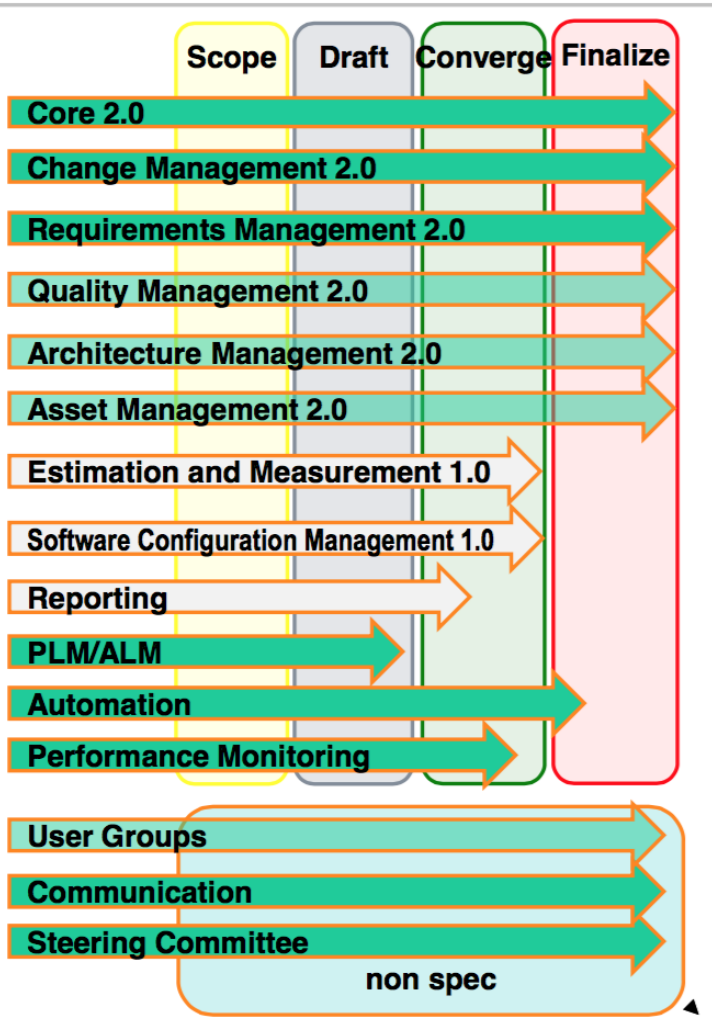


OSLC: The Executive Summary

Users can work seamlessly across their tools



Specification of the Technical Components



What to do with an OSLC spec?

How do I use it for real integrations?

- Commercial tools available with OSLC APIs
- Many organizations developing OSLC integrations in-house
- Educational and research institutions developing tool integrations based on OSLC
- Would be good to have open source sample code, SDKs, tests, etc to help get started

Eclipse Lyo



Eclipse Lyo

Enabling tool integration with OSLC

- Project kick-started in 2011 with the goal of providing an SDK to enable adoption of OSLC specifications, including
 - Code libraries
 - Reference implementations of specifications
 - Test suites and test reporting
 - Samples, tutorials and documentation
 - **NOT** a plugin for the Eclipse IDE, **NOT** related to OSGI – although Lyo artifacts could be used in Eclipse plugins.
- Project content is dual-licensed under the Eclipse Public License and the Eclipse Distribution License

Example of a new Lyo Contribution: KTH

- Automatic generation of OSLC front-ends, why?
 - To lower the threshold to develop a tool adaptor
 - Automate repetitive steps
 - Make some technologies transparent to tool developer
- Leading to ...
 - A lower learning curve to adopt OSLC
- Approach: Model-based development of tool adaptors
 - Ecore meta-model to OSLC4J Java code
 - https://www.youtube.com/watch?v=nElmx_c6K5U
- Jad El-khoury (KTH), first author
 - The tool has been used by multiple projects' partners
 - New contributions from Volvo and Thales
 - KTH is subcontracting SMEs to extend it
 - Jad became an Eclipse Lyo “contributor”, he is now a “committer”

Some Hot Questions for our workshop

- What kind of important features are currently missing in an open-source OSLC reference implementation such as Lyo?
 - Code / Technical documentation / Education / Implementation Forum / etc... ?
- How to enroll new organizations for contributing to Lyo?
- What could be the business cases for organizations (i.e., end-users, big tool providers, SMEs, academics) investing in a open community such as Lyo?