Lyo OSLC4J and OSLC Test Suite 1.0 Release and Graduation Review

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About

The Eclipse Lyo project is focused on providing an SDK to enable adoption of OSLC specifications. OSLC (Open Services for Lifecycle Collaboration: http://open-services.net) is an open community dedicated to reducing barriers for lifecycle tool integration. The community authors specifications for exposing lifecycle artifacts through uniform (REST) interfaces and relying on Internet and Linked Data standards.

Eclipse Lyo project is a companion to the continuing specification efforts of the OSLC community. Its main purpose is to expand adoption of OSLC specifications and to enable the Eclipse community to easily build OSLC compliant tools.

The project was approved by the PMC in July 2011 and initial contributions were committed in September 2011.

Introduction

Lyo is a Technology sub-project: http://eclipse.org/lyo

This is the first release of Lyo components as an Eclipse project. The goals are to continue to build an Eclipse community around Lyo by providing a Java SDK for OSLC (OSLC4J), an OSLC assessment test suite and code samples of OSLC provider and consumer implementations.

Milestones leading to Release

Lyo has a history of of quarterly Milestonesin preparation for this graduation:

- M1 – December 2011
- M2 – March 2012
- M3 – June 2012
- 1.0 (Proposed) – September 2012

- Early adoption of OSLC4J

  - Milestone releases are being used to develop real OSLC integrations

  - Reference implementations of OSLC specifications developed with OSLC4J are available in Lyo.

Committer Diversity

The following individual committers are actively involved:

- Michael Fiedler (IBM)
- Samuel Padgett (IBM)
- Steve Speicher (IBM)
- Olivier Berger (Institut Telecom)

Additional active significant contributors

- Yuhong Yin
- Steven Pitschke
- Sean Kennedy
- Timothy Eck
- Stephanie Ouillon
- Alberto Giammaria

- http://www.eclipse.org/projects/project.php?id=technology.lyo

Main Features to be released as 1.0

- OSLC4J – Java SDK for OSLC implementations

  - Annotations to add OSLC attributes and meta-data to Java objects representing OSLC resources

  - Serialize/De-serialize Java objects as OSLC resources

    - RDF/XML Serialization using Apache Jena
    - JSON Serialization using Apache Wink JSON4J

  - JAX-RS provider for Apache Wink

    - Eases development of both OSLC provders and consumers

- OSLC assessment Test Suite

  - Tests cover OSLC Core spec + Change Management, Quality Management, Asset Management and Requirements Management specifications

  - Includes reports to assess implementation conformance with specification MUST requirements

API Maturity

- OSLC4J API

  - API stable since M2 – March 2012

  - Early adopters have developed real integrations – intent is to not break backward compatibility

  - Future additions to API will be designed to be non-breaking

  - Currently, no deprecated API elements

Additional Lyo project content

- Additional Lyo components NOT being formally released in 1.0 – under consideration for the next release

    - Enhanced client library based on OSLC4J

    - Enhanced library to support OSLC query

    - SDKs for other languages (.NET, Perl)

- Lyo also contains code samples which are for developers to use as aids and examples for their own implementations.   Not formally released.

    - Reference implementations for specifications

    - Sample OSLC integrations for Bugzilla, Excel and Sharepoint.

Non-code aspects

OSLC4J and TestSuite documentation:
http://wiki.eclipse.org/Lyo/LyoOSLC4J
http://wiki.eclipse.org/Lyo/BuildTestSuite

Contributor Guide:
http://wiki.eclipse.org/Lyo/ContributorsGettingStarted

Mailing List:
https://dev.eclipse.org/mailman/listinfo/lyo-dev

Forum:

http://www.eclipse.org/forums/eclipse.lyo

IRC Channel:

irc://irc.freenode.net/#eclipse-lyo

Continous Integration:
Hudson-based builds

Bugzilla

Bugzilla Statistics (on 2012-09-17):

Open: 22 bugs, 45 enhancement requests

- No Blocker/Critical open

Fixed: 139 bugs, 44 enhancement requests

Community

- Eclipse DemoCamp : Durham, NC, November 2011

- EclipseCon Europe: Ludwigsburg, Germany, November 2011

- EmbeddedWorld: Nuremberg, Germany, February 2012

- EclipseCon: Reston, VA March 2012

- IBM Rational Innovate: Orlando, FL June 2012

- OSLC Community Site: http://open-services.net

- CESAR Project: http://www.cesarproject.eu/ (Lyo adopter)

IP Log for Lyo

http://www.eclipse.org/projects/ip_log.php?projectid=technology.lyo

Proposed Schedule

- 1.0 – September 2012
- 1.1 – December 2012

    - .NET SDK

    - Perl client library

    - Enhanced OSLC query library

    - Test suite improvements

- 2.0 – June 2013

    - Enhancements based on community feedback

Project Plan

http://www.eclipse.org/projects/project-plan.php?
projectid=technology.lyo

http://wiki.eclipse.org/Lyo/ProjectPlans

Themes for future releases:
- SDKs for technologies other than Java
- Test suite improvements (additional domain coverage, improved depth of test cases, improved reporting)
- API stabilization
- Improved documentation
- Usability
- Building a community