Bill Chown, OASIS OSLC Steering Committee Chair

OSLC Overview
Goals of OSLC

The OSLC (Open Services for Lifecycle Collaboration) initiative supports integration between a heterogeneous set of tools and components from various sources using an architecture that is minimalist, loosely coupled, and standardized.

OSLC is based on World Wide Web and Linked Data principles, such as those defined in the W3C Linked Data Platform [LDP], to create a cohesive set of specifications that can enable products, services, and other distributed network resources to interoperate successfully.
OSLC History

- Over 10 years old – Nov 2008
- OSLCFest in Sweden – Nov 2018
- OASIS Open – 2013
- OSLC 3.0 Specification – April 2017
OSLC Community Stepping Up

Steering committee
- Multi-organization steering committee established
- New governance model introduced

OSLC at OASIS
- Internationally recognized independent SDO
- Formal support from 22 organizations (at launch)
- Participation governed by established OASIS model

Community governance of OSLC
- Early State: IBM de facto governance (with community support)

Extend OSLC Eco System
- Partnering with other orgs

Events:
- May/June 2013
- January 2015
- <2008
- June 2012
- May/June 2013
OSLC Architecture

Layered architecture builds on Linked Data
Applicability of OSLC

• Domain-driven scenarios inspire standardization of common capabilities across disciplines
  – Disciplines include Change Management, Requirements Management, and Quality Management
  – Cross-domain scenarios such as Application Lifecycle Management (ALM) & DevOps, Product Lifecycle Management (PLM), and Integrated Service Management (ISM)

• The OSLC approach focuses on software lifecycle management to ensure it meets a core set of scenarios and requirements
Key Interactions in the Flow

• Data
  – E.g. netlist, schematic to cabling, etc. Bulk data transfer

• Behavior
  – Executable models, run time code, functional co-simulation

• Intent
  – Requirements, work items, dependencies, meaning
OSLC Core 3.0

- OSLC Core 3.0 builds on capabilities developed in different standards organizations, TCs and working groups.
Goals of OSLC Core 3.0

• Integration is based on an open standard, and not controlled by any single vendor
• OSLC 3.0 is based on the new W3C Linked Data Platform standard which provides a solid foundation for reading and writing linked data resources
• The specifications are simpler, more consistent and will potentially be more attractive to, and easier to consume by new integrations
• There are some new capabilities specified, including Attachments, inverse link labels, traceability and impact types
• Domain vocabularies can be improved for data consistency and removing data gaps
• All Resource Shapes are provided in machine readable Turtle files
OSLC Domains

A new Domains WG (TC) is formed within OASIS-OSLC
• Combined attention to the various domains, rather than separate domain groups
• Migrate existing finalized OSLC v2.0 domain specifications
  – Tracked Resource Set 2.0,
  – Architecture Management 2.0
  – Asset Management 2.0
  – Automation 2.1
  – Performance Monitoring 2.0
  – Quality Management 2.0
  – Requirements Management 2.0
• Capture requirements and use cases for other related domains
Achieving the Digital Thread

Use OSLC to connect your data and achieve the digital thread across domains, applications, and organizations.