ProSTEP iViP – OASIS OSLC Conference

Seamless Lifecycle Integration - based on open Standards

Held jointly with: 4th Interoperability Conference

Location: **Daimler Auditorium, Stuttgart-Möhringen**
Epplestraße 225, 70567 Stuttgart
Date: **20 October 2015 / 10:00 – 16:00**

One day full of information under the lead-theme <u>ALM – PLM Interoperability</u>. Impulses for enabling information flows between different engineering disciplines will be given. In industry-relevant talks possibilities of OSLC will be discussed and demonstrated. Target-audience are people interested in solving systems engineering challenges in smart ways – experts and new-comers.

The keynote will be held by Prof. Martin Eigner, TU Kaiserslautern.

Registration and more Information at
http://www.prostep.org/en/events/topic-specific-events/oslc.html

Time	Topic
10:00	**Welcome** Dr. Steven Vettermann, ProSTEP iViP & Rainer Ersch, Siemens AG
10:15	**OSLC: Introduction & Overview** Rainer Ersch, OASIS-OSLC Steering Committee Member
10:30	**Keynote: OSLC - Bridge between MBSE and PLM?** Prof. Dr. Martin Eigner, University Kaiserlautern
11:15	**OSLC as an Opportunity to Compose IT Solutions** Frank Wagenknecht, Bombardier Transportation
11:45	**Co-simulation in technical software development** Gernot Eggen, Philips Healthcare
12:15	Lunch Break
13:30	**Aerospace: Industrial Use Case Demonstrator** Andreas Keis, Airbus
14:20	Coffee Break
14:40	**Automotive: Industrial Use Case Demonstrator** Dr. Matthias Recknagel, Daimler
15:30	**Questions & Answers, Closing Remarks & Outlook** Rainer Ersch, Siemens AG & Dr. Steven Vettermann, ProSTEP iViP
16:00	Anticipated end

OSLC
Inspired by the web

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11:15	**OSLC as an Opportunity to Compose IT Solutions in an existing Application Landscape** Frank Wagenknecht, Bombardier Transportation
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15:30	**Questions & Answers from the Audience Closing Remarks & Outlook** Rainer Ersch, Siemens AG & Dr. Steven Vettermann, ProSTEP iViP
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Keynote

Prof. Dr. Martin Eigner

Head of Institute for
Virtual Product Engineering
TU Kaiserslautern

Martin Eigner is an expert for Product Lifecycle Management and Model Based System Engineering. Prof. Eigner was head of Technical Data Processing and Organization at Bosch, founded EIGNER + PARTNER AG., which was later sold to ORACLE. Now, he is head of Institute for Virtual Product Engineering at the TU Kaiserslautern.

OSLC - Bridge between Model Based Systems Engineering and Product Lifecycle Management?

The keynote focusses on the applicability of the integration of MBSE artefacts into an extended PLM Backbone as a cornerstone for the future development and traceability of interdisciplinary and communicating systems (Industrial Internet/Industrie 4.0). This includes the definition of new standards for integration and data exchange. A very important potential standard could be OSLC. Model-based Systems Engineering (MBSE) has gained in importance, starting with the early life-cycle phases of complex mechatronic or cybertronical products and services. This approach enables the linking of internal and external stakeholders with the emerging system architecture, as well as the functional system behavior with the means of discipline-independent system descriptions. Management of information in product development processes needs to be uplifted from the traditional document-oriented approach to a business & engineering object-oriented lifecycle management.

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User Experiences

OSLC as an Opportunity to Compose IT Solutions in an existing Application Landscape

Frank Wagenknecht, Director Business Processes, Bombardier Transportation

Bombardier Transportation provides products to market with very strong requirements and constraints – technological and legal ones. For managing all the related requirements in a complex, multi-level approval process an IT solution was developed and implemented. The presentation addresses the challenges and drivers of the undertaking, the solution concept, the role of OSLC as well as the technological realization. Additionally, the related use cases will be introduced. A summary of the current status as well as a short outlook with regard to the next steps will sum up the presentation.

Co-simulation in technical software development

Gernot Eggen, Technical Department Manager, Philips Healthcare

Software intensive high-tech systems are at the heart of most technological advances. This presentation shows a use case in which software modeling is applied to simulate requirements and generate code and a test suite for the software. It will show the strength of software modeling while touching upon the interfaces of models and the environment. The position in the V-model is demonstrated by linking low level hardware components to software units into the system design and requirements. The necessity for model interoperability will become evident during the course of the presentation. The presentation demonstrates the need for modeling interoperability in an environment where functional mockup interfaces are not yet common practice.

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Industrial Use Case Demonstrators

Aerospace

Andreas Keis, Head of Systems Engineering Processes and Platforms, Airbus

In this Proof of Concept, experts from Airbus, IBM and ARAS will demonstrate a reference architecture implementation for ALM/PLM integration based on OSLC. In this Artemis Crystal scenario, a product change is made to an Aircraft De-Icing System, propagating across the different disciplines leading to a product release that includes hardware and software. An overview will also be provided of what can be achieved today with existing OSLC specifications and needed features for future OSLC specifications. Attendees will see a real world example for faster development, improved cross-discipline coordination, and reduced errors in the flow of critical information for engineering complex systems-centric products.

Automotive

Dr. Matthias Recknagel, Manager Requirements Engineering, Daimler AG

Development of efficient, connected and autonomous acting premium cars requires management of dependencies between different engineering disciplines. They are supported by different tools, which interact with each other to support management of dependencies. Open specifications for tool integration like OSLC, also ReqIF and FMI raise expectations for integrated tool-chains, where engineers can combine best-of-breed technologies and tools from different vendors. This session presents a example of a car closing system and highlights of a tool-chain for Systems Engineering(PTC Integrity&EA). It covers the creation of a safety concept based on system requirements specification, test and validation and shows the interaction with PLM.