Workshop on Service-Oriented Architectures and Software Product Lines - Putting Both Together (SOAPL 2008)

Software Engineering Institute
Carnegie Mellon University
Pittsburgh, PA  15213

Bob Krut & Sholom Cohen
8 September 2008
SPLC 2008, Limerick, Ireland
## Agenda

<table>
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<th>Time</th>
<th>Event</th>
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<tr>
<td>09:00-09:15</td>
<td>Introductions and Goals</td>
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<td>09:15-10:15</td>
<td>Invited Speaker: Dr Peter Dolog, Aalborg University</td>
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<td>10:15-10:30</td>
<td>Break</td>
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<tr>
<td>10:30-12:30</td>
<td>Presentations and Discussions (20 minute time limit plus</td>
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<td>questions and discussion on each presentation)</td>
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<td>12:30-14:00</td>
<td>Lunch</td>
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<td>14:00-14:30</td>
<td>Final Presentation and Discussion (if necessary)</td>
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<td>14:30-15:30</td>
<td>General Discussion</td>
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<td>15:30-15:45</td>
<td>Break</td>
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<td>15:45-17:00</td>
<td>General Discussion Continued</td>
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<td>17:00-17:30</td>
<td>Conclusion: Goals Addressed, Topics for San Francisco,</td>
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<td>Future Work</td>
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Workshop Organizers

Sholom Cohen, Software Engineering Institute, USA
Dragan Gasevic, Athabasca University, Canada
Andreas Helferich, Universität Stuttgart, Germany
Robert Krut, Software Engineering Institute, USA
Jaejoon Lee, Lancaster University, UK
Grace Lewis, Software Engineering Institute, USA
Tomi Männistö, Helsinki University of Technology, Finland
Curt Pederson, American Family Insurance, USA
Dennis Smith, Software Engineering Institute, USA
Christoph Wienands, Siemens Corporate Research, USA
The First Workshop on Service-Oriented Architectures and Product Lines (SOAPL 2007)


Service Oriented Architectures and Product Lines - What is the Connection?

SOAPL 2007 explored the connections from two perspectives:

1. Can services support product lines using a service-oriented architecture?

2. How can use of product line practices support services and service-oriented architectures?


http://www.sei.cmu.edu/publications/documents/08.reports/08sr006.html
The Second Workshop on Service-Oriented Architectures and Product Lines (SOAPL 2008)

Service Oriented Architectures and Product Lines - Putting Both Together

SOAPL 2008 explores experiences in integrating SOA and SPL:

1. How web services have been used to support product lines using a service-oriented architecture?

2. How product line practices have been used to support web services and service-oriented architectures?

Participants in the workshop hopefully includes product line and service-oriented practitioners who have experience in integrating service-oriented architectures and software product lines approaches.

Five position papers were accepted.
Accepted Papers

Combining Product Line Engineering and Service Oriented Architecture in Health Care Infrastructure Systems: Experience Report
Jörg Bartholdt, Bernd Franke, Christa Schwanninger, and Michael Stal, Siemens AG

Semantic Web Services-based Reasoning in the Design of Software Product Lines
J. Jeffrey Rusk and Dragan Gasevic, Athabasca University

Service-Oriented Product Lines: A Development Process and Feature Management Model for Web Services
Sebastian Gunther, Otto-von-Guericke-Universitat Magdeburg, and Thorsten Berger, Universitat Leipzig

Imaging Services on the Grid as a Product Line: Requirements and Architecture
Mathieu Acher, Philippe Collet, Philippe Lahire, and Johan Montagnat, Universite de Nice

Business Process Lines for SOA Development through SPL Paradigm
Nicola Boffoli, Danilo Caivano, Daniela Castelluccia, Fabrizio Maria Maggi, and Giuseppe Visaggio, University of Bari - Via E.
Workshop Theme

Two major themes for this year’s workshop:

1. variability and variability mechanisms
2. product composition
   both within the context of SOA and product lines.

All of the papers touched on one or both of those themes.
These topics will provide a starting point for the workshop.

Other suggested topics:

- in advance
- as papers are presented and discussed
Invited Speaker

Dr. Peter Dolog
Associate Professor
Computer Science Department
Aalborg University

Leads the Intelligent Web and Information Systems (IWIS) group

includes adaptive hypertext and hypermedia, user modelling, personalization, web based systems, web services, software product lines and technology enhanced learning.

Presentation Title:

Feature Based Design of Web Service Transaction Compensations
Workshop Topics

How have web services been used to support product lines using a service-oriented architecture?

How have product line practices been used to support web services and service-oriented architectures?

Additional topics:

- variability and variability mechanisms
- product composition
Conclusion

Were the goals of this workshop addressed? Comments?
What would you recommend as the topic for San Francisco?
What future work in this area will you be doing?