



PaaSage

Model Based Cloud Platform Upperware

Deliverable D9.4.1

Workshops prototype design

Version: 0

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1 Executive summary

This deliverable describes the PaaSage design and implementation plan for scientific workshops, the experience gained so far from participating in past events, and plans of actions to take in organizing and participating in different types of scientific workshops. The implementation plan presents a list of target events to consider participating in during the course of the project.

2 Introduction

This document describes the PaaSage plan and design for scientific workshops, covering their objectives, implementation plan, and expected outcome. PaaSage will hold two types of workshops: Scientific-oriented workshops, and end-user, industry-focused workshops. The focus of this deliverable is scientific workshops. The target audience of scientific workshops is academic and industry researchers and graduate students. The goals of scientific workshops are

- To increase awareness within the target audience
- To build a community around PaaSage (see T8.2)
- To organise training activities (incl. Summer school) for the target audience in collaboration with other projects

An upcoming deliverable (D9.4.2) will focus on end-user, industry-focused workshops, targeting software developers, business analysts, and software and Cloud practitioners in general. The goals of end-user, industry-focused workshops are to initiate adoption, in support of exploitation planning.

3 Scientific workshops

Scientific workshops are targeted at the scientific community; typically a scientifically-trained audience of at least 15-20 participants. The goals of scientific workshops are: to build a community around PaaSage and to stimulate collaboration; promote the adoption of PaaSage technologies; and promote the open and free exchange of ideas. Scientific workshops will be organized in venues ranging from conferences, summer schools, and EU-sponsored events. They will typically last from between half a day and a full day.

We distinguish between two types of scientific workshops: those focusing solely or mostly on PaaSage (right branch of Figure 1); and those that focus on a core topic of PaaSage (e.g., model-driven software engineering, Multi-Clouds, etc.) but involving contributions from other projects as well (left branch of Figure 1).

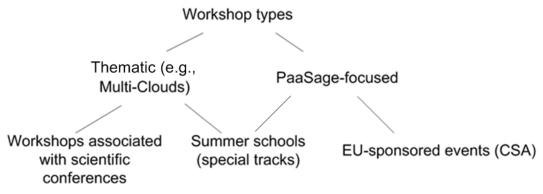


Figure 1 : PaaSage workshop types

Workshops focusing solely or mostly on PaaSage can usually be organized in the context of EU-sponsored events that invite such participation, such as within (e.g., concertation) meetings organized by Coordination and Support Actions (CSAs) – examples of such CSAs are the currently running SUCRE (http://www.sucreproject.eu/) and the research infrastructures CP-CSA EUDAT Collaborative Data Infrastructure (http://www.eudat.eu/).

Workshops targeting a core topic of PaaSage (e.g., model-driven Cloud software engineering, constrained optimization of Cloud performance, Multi-Clouds, etc.) but openly inviting contributions from the scientific community are usually organized either jointly with well-known conferences (for example the Multi-Clouds workshop organized in the context of the ACM ICPE conference in 2013 in Prague, Czech Republic and the Krakow Grid Workshop (CGW) held on an annual basis in Krakow, Poland) or in the context of acclaimed Summer Schools such as the Advanced Summer School in Service Oriented Computing (SummerSOC) organized annually in Hersonissos, Crete, Greece.

We examine the experience gained so far and outline the planning steps involved in as a guide to organizing upcoming workshops. In Section 4 we describe our implementation plan for scientific workshops.

3.1 EU-sponsored events

Large-scale EU-sponsored coordination and support actions usually organize scientific workshops in the context of their regular meetings, aiming to bring the communities they serve closer to cutting-edge developments in the field. Figure 2 provides an example of the scientific workshops accepted and organized at the sidelines of the 2nd Conference of the EUDAT coordination and support action in 2013. Such workshops are typically attended by between 10-30 scientifically trained participants; they involve hourly keynote-type lectures by 2-4 project experts highlighting key results and may include short demos, although the focus of the workshop is primarily on lectures.



Figure 2: Organization of project-focused scientific workshops in context of CP-CSA

In the context of PaaSage, a closely related CSA providing an opportunity for the organization of scientific workshops is SUCRE (Figure 3). Although collaboration between PaaSage and SUCRE has been successful and ongoing, SUCRE will be completing its mission in 2014 and therefore PaaSage should consider alternative venues in recent CSA projects within that space.



Figure 3: Workshops are planned to be organized in the context of Coordination and Support Actions such as SUCRE

Experience from past organizations of such workshops showed that the following are the key steps in organizing one:

- 1. Identify suitable EU-sponsored CSAs or other community-building projects in one of the key thematic areas of PaaSage
- 2. Submit workshop proposal (possibly in coordination with related projects). An internal call for participation (CFP) within PaaSage will solicit a team of 3-4 project experts that will participate as lecturers in the particular event.
- 3. Create half-day or full-day programme of hourly keynote-type lectures providing good coverage of project areas and highlighting key results. Topics covered in a PaaSage-focused workshop will be drawn from the project's core contributions in the general area of model-driven Cloud software engineering.
- 4. Programme may include short demos
- 5. Audience participation (beyond questions during or after talks) can be encouraged via the organization of panels where possible.

3.2 Scientific conferences

Scientific conferences provide suitable venues for organizing thematic workshops that invite participation by the broad scientific community. One such recent example coorganized by PaaSage was the 1st International workshop on multi-cloud applications and federated clouds, organized 22 April 2013 in Prague, Czech Republic. The workshop took place in conjunction with 4th ACM/SPEC International Conference on Performance Engineering and was jointly organized by the FP7-ICT projects MODAClouds, PaaSage and ARTIST.

Figure 4 depicts the final programme of the workshop including contributions by PaaSage partner teams. Experience from this workshop showed that the following key steps must be taken to ensure the successful organization of a scientific workshop:

- 1. Identify suitable conferences in one of the key thematic areas of PaaSage
- 2. Submit workshop proposal (possibly in coordination with related projects)
- 3. Assemble organizing committee and programme committee, including senior project partners
- 4. Notify all project partners well in advance so that they have ample time to prepare and submit quality papers
- 5. Along with a top-notch workshop programme, organize
 - a. Keynote talk(s)
 - b. Panel(s) so that participants have the chance to participate in exchange of ideas

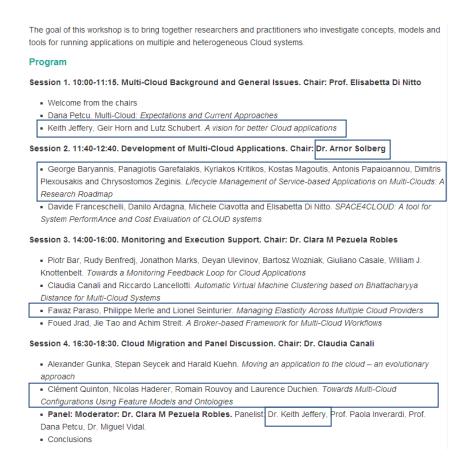


Figure 4: MultiClouds workshop featuring PaaSage participation (PaaSage partner participants highlighted in solid rectangles)

Another example is the Krakow Grid Workshop which is held on an annual basis in Krakow, Poland. The last two workshops (CGW'12 and CGW'13) included PaaSage-focused keynote presentation by Stefan Wesner (in 2012) and Pierre Guisset (in 2013).

3.3 Summer schools

Summer schools provide another excellent opportunity to organize PaaSage-related scientific workshops. PaaSage recently participated at the 7th Advanced School on Service Oriented Computing (SummerSOC'13) in Heraklion, Crete, Greece (1-6 July, 2013). PaaSage's contribution at this event was focused on expert tutorials on the subjects of software product line engineering on hybrid cloud infrastructures and on the specification and use of CloudML.

Figure 5 depicts the part of the SummerSOC'13 program that includes PaaSagerelated talks as well as the PaaSage-organized collaboration session featuring the participation of the MODAClouds and ARTIST projects.

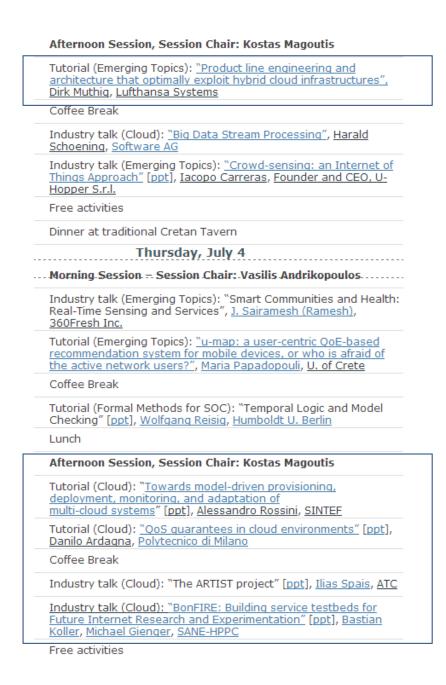


Figure 5: Special collaboration session organized in the context of SummerSOC'13 (PaaSage related participants and sessions highlighted in solid rectangles)

This session was attended by about 60 participants of the Summer School including about 25 graduate students participating in the Erasmus Mundus International Master in Service Engineering (IMSE) and about 35 experts (academics and industry researchers) in the area of Cloud and services computing. Organization of this session provided us with significant insight into the planning of a PaaSage-focused scientific workshop at future editions of the Advanced School on Service Oriented Computing as well as other similarly structured summer schools. In particular, the key steps are:

- 1. Identify suitable summer schools in one of the key thematic areas of PaaSage
- 2. Engage organizing committee early on in approving a special session or parallel track focusing on one of the key thematic areas of PaaSage
- 3. Send a call for participation (CFP) within PaaSage planning for 3-4 lectures lasting 30-45' each (include other projects in case of thematic workshops)
- 4. Since students are a key part of the audience, sessions with demos or hands-on use of training material between lectures are recommended
- 5. Organize a panel so that participants have the chance to participate in exchange of ideas

4 Implementation Plan

In PaaSage we have had an early start in organizing scientific workshops, such as the Multi-Clouds workshop organized in the context of the ACM ICPE conference in 2013 in Prague, Czech Republic, the Krakow Grid Workshops (CGW) organized with the active participation of PaaSage partners in 2012 and 2013 in Krakow, Poland, and in the context of the Advanced Summer School in Service Oriented Computing (SummerSOC) in 2013 and 2014. We plan to continue along these lines, planning for additional workshops at the following venues:

In conjunction with:	Target population:	Objective:	Date
CGW'12 in Krakow, Poland	Scientific community	Create awareness and disseminate results	October 2012
MultiClouds'13 in Prague, Czech Republic	Scientific community	Create awareness and disseminate results	May 2013
CGW'13 in Krakow, Poland	Scientific community	Create awareness and disseminate results	October 2013
SummerSOC'13 in Heraklion, Crete	Scientific community and young researchers	Training and community building	July 2013
SummerSOC'14 in Heraklion, Crete	Scientific community and young researchers	Training and community building	July 2014
SummerSOC'15 in Heraklion, Crete	Scientific community and young	Training and community building	2015

	researchers		
EC Unit E2 Software and Services, Cloud Concertation Meeting	Academic and industrial research community	Create awareness, encourage adoption and disseminate results	2015
CGW'15 in Krakow, Poland	Scientific community	Create awareness and disseminate results	2015
SummerSOC'16 in Heraklion, Crete	Scientific community and young researchers	Training and community building	2016
Coordination and support actions (to be investigated)	Academic and industrial research community	Create awareness, encourage adoption and disseminate results	TBA

In each case, the practical organisation will be under the control of an Organisation Committee (OC) constituted by senior PaaSage partners (along with personalities from collaborating projects if needed) and from the scientific community, and supported by the local/regional PaaSage partner in each case. The local/regional PaaSage partner will have the responsibility of planning each event in advance, including triggering the composition of the OC and the interaction with it. This plan may be reviewed dependent on specific opportunities with other research initiatives, projects and events.

5 Expected Outcome

We expect to co-organise and participate in 6-9 thematic scientific workshops in the areas of Cloud computing, Multi-Clouds, model-driven software engineering, and related areas during the course of the project. PaaSage has participated in four such events so far (2012-2013), receiving valuable feedback and experience in organizing future events. During the fourth year of the project we plan to organize a PaaSage-focused workshop (Section 3.1) in the context of an EU-sponsored event.