

# PaaSage

## Model Based Cloud Platform Upperware

**Deliverable D8.2.3** 

**Community building** 

Version: 1.0

# **Project Deliverable**

Name, title and organisation of the scientific representative of the project's coordinator: Philippe Rohou, European Project Coordinator, ERCIM, +33 4 97 15 53 06, +33 6 28 47 40 72 Project website address: <u>http://www.paasage.eu</u>

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# Table of Contents

Purpose and objective	. 5
Revised website	. 5
Academic dissemination	. 5
Industrial workshops	. 5
Research promotion	. 7

## Purpose and objective

The Description of Work defines the purpose as *This deliverable will describe the results of the* community building effort. Beyond the open source code base and results, it describes the status of coordinating the building of a community of developers and maintainers around the code base based on an established community. The targeted community is the OW2 community. The deliverable will describe the status of having the open source cloud platform accepted as an OW2 sub-project.

PaaSage was accepted as an Open Source Software project by OW2 already in the third period of the project, and all development of the PaaSage code base has taken place using open source tools during the fourth period. It is therefore of limited interest to describe the activities undertaken towards the OW2 community, and rather focus on the general activities undertaken to promote PaaSage and the PaaSage platform.

The focus of this brief deliverable is therefore the activities done with the objective *to promote the PaaSage Open Source towards the potential first users and future co-developers.* Given that most of this work is described extensively in other deliverables, this deliverable basically highlights the areas of contribution, and provide references to the relevant deliverables where the complete documentation can be found.

### **Revised website**

The first step in this strategy was to make the PaaSage website more accessible to potential PaaSage users and co-developers. During the fourth project year, the PaaSage Web site has been completely redesigned as a 'product web site' in order to support a wide adoption of the PaaSage platform by partners and third-party users and for building the community of developers.

The two main access paths proposed by the web site are guiding on one hand users to the PaaSage social network (*building a community of users*) and on the other hand developers to the OW2 repository (*building a community of developers*).

The strategy behind the restructuring and the website structure are extensively described in deliverable "D9.1.2 - Website Product".

#### Academic dissemination

The PaaSage platform is promoted in the PaaSage publications. In the fourth period PaaSage has 26 publications at various conferences, and the open source code has therefore been presented at various events and to various communities. The full list of publications is available in the deliverable *D10.1.5 Final Report*.

In addition, representatives from PaaSage have been active in the 10<sup>th</sup> Symposium and Summer School on Service Oriented Computing (SummerSOC'16), 26 June – 1 July, 2016, in Heraklion, Crete, Greece and at the 9<sup>th</sup> Cloud Control Workshop (CCW), 27-29 June, 2016, at Friiberghs Herrgård, by the Mälaren Sea, Sweden. Both events bring together many PhD students, Post Docs, and their supervisors, in addition to representatives from the research departments of relevant industrial players like IBM, Google, and MicroSoft. At Summer SOC'16 a dedicated tutorial on PaaSage was given on 29 June, and at CCW PaaSage received significant interest as an already existing solution to many of the problems identified with the current Cloud offerings. Participants at both events expressed strong interest in testing and playing with a packaged PaaSage platform.

#### Industrial workshops

During project years 3 and 4, many PaaSage industrial workshops were organised in support of PaaSage adoption by European industry. These workshops aim also at building the communities of users and developers.

PaaSage industrial workshops are documented in *Deliverable D9.4.2 Industrial Workshop Planning* and deliverable *D9.3.2 Final training materials and Workshop product launch*. In addition to these project organised events, several partners have continued promoting PaaSage at various industrial events.

The Advanced Business & Industrial Software Summit (ABISS 2016<sup>1</sup>) on 29 September 2016 at Kortrijk Xpo in Belgium was the first edition of a yearly event focusing on getting better insight of available advanced software and related technologies for digitalising business and manufacturing processes, collecting data and rendering mobile solutions on top of it. The exhibitors were mainly companies active in the domain of ERP, IoT, MES & Engineering, Planning, and Industry 4.0 (the connected factory). *be.wan* participated together with one of its customers to demonstrate a digital servitization use case where a machine sends sensor data over the internet to be.wan's platform for analysing and triggering business processes based on the received metrics, *i.e.* inventory control, billing, and maintenance. It was a great occasion to show also PaaSage, because the digital servitization platform, once fully operational, will quickly need to be deployed to the cloud, and it will need automated execution monitoring and scaling capabilities.

During the event be.wan met both end-users (owners, managers and engineers of manufacturing companies) and software developers of advanced industrial software. End users were more interested in the capabilities of the servitization platform, but also asked questions where all this is running, what is needed, how stable it is and how it performs when receiving a huge amount of data. The answer was clearly that PaaSage is the key to our deployment and execution strategy. Software developers, *i.e.* competing colleagues, where interested in PaaSage capabilities and especially the model driven approach.

It is a bit early to analyse the feedback, because the use case, *i.e.* the digital servitization platform, is still a pilot project and will be seriously enhanced in the coming months. be.wan hopes to have a second iteration of the platform by 15 March 2017, modelled and deployed with PaaSage, and demonstrated at the *IoT World* event in Paris 22-23 March 2017. This is a parallel event of the *Cloud Computing World Expo 2017*.



Figure 1 The be.wan booth at the ABISS exhibition displaying the PaaSage folder

<sup>&</sup>lt;sup>1</sup> <u>www.abissummit.eu</u>

During 2016 the University of Oslo started the SIRIUS Centre for Research Based Innovation financed by the Research Council of Norway with 1.3 million Euros per year in 8 years, with similar contributions from industry. The centre focuses on scalable data access in the oil and gas domain, and one of the research strands is on Cloud computing technologies. SIRIUS organised a workshop<sup>2</sup> on the topic "What does the Cloud mean for the Oil & Gas Industry?" in Oslo on 19 November 2016 where PaaSage was presented.



Figure 2 PaaSage being presented at the SIRIUS workshop for the oil and gas industries

These two examples show that the PaaSage partners continue to promote PaaSage both internal to their organisations, and externally whenever possible. Further events are expected in the future, then related to the exploitation actions described in *Deliverable D8.1.4 Final Exploitation Plan*.

### **Research** promotion

It should be noted that the academia contributes significant effort to Open Source projects, and that several components of the PaaSage platform are integral parts of long term research strategies. The results of PaaSage will therefore be maintained and expanded because of these strategies, in particular if there are new research projects enabling the academic contributors to hire PhD candidates that can work on the PaaSage components as part of their research tasks.

This implies that the academic partners will push PaaSage results in project proposals and towards industrial project proposal partners. The MELODIC<sup>3</sup> project is a major successful result to this end. It is coordinated by the University of Oslo with participation of the University of Ulm. Within the framework of MELODIC, a professional software company from Poland,

<sup>&</sup>lt;sup>2</sup> <u>http://sirius-labs.no/2016/11/02/what-does-the-cloud-mean-for-the-oil-gas-industry-workshop-18th-november/</u>

<sup>&</sup>lt;sup>3</sup> Horizon 2020 Grant Agreement 731664 starting 1 December 2016 – 1 December 2019

7Bulls, will take over the maintenance and commercialisation of the PaaSage platform. MELODIC will extend PaaSage with an application data model and will integrate with two popular open source frameworks for big data analysis, Hadoop and Spark. This will enable PaaSage to be used for cross-cloud big data computations.

MELODIC will consequently ensure that the Open Source PaaSage project will be maintained and expanded over the next three years. In addition, 7Bulls will sell solutions based on the extended PaaSage platform and thereby have a long term *commercial* interest in the availability and quality of the Open Source project.