Free Open Source Software Academia Conference
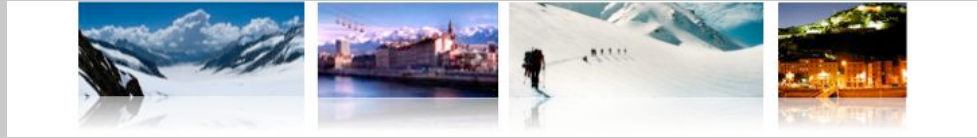
17th & 18th November 2009, Centre de congrés WTC, 5-7 place Robert Schumann, Grenoble, France.

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Program Overview

Main Session Day1

Main Session Day2

Workshop Sessions Day1&2

Poster

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Workshops Detailed Program

Printer-friendly version

Workshops

Room Cervin

Detailed agenda

Presentation abstract

Speakers

Note 1: Each presentation should respect the following format:

1. 10 minutes presentation -10 minutes demo -10 minutes questions/answers,
2. Why the project is published in Open Source and how?
3. Present your experience (positive and negative points)

Day1	Room Cervin			Day2	Room Cervin		
08:30	Registration & Coffee			08:30	Registration & Coffee		
				09:30	**eXo Platform** Information Management System	**Romain Dénarié** OW2 Project	
				10:00	**Bonita Soft** BPM Suite	**Miguel Valdes Faura** Startup/OW2 Project	
				10:30	**UShareSoft** Software Appliance	**James Weir** Startup	
	On day 1, presentation starts at 13:30			11:00	**SpagoBI** Business Intelligence	**Stefano Scamuzzo** OW2 Project	
	Workshop legend			11:30	**Spago4Q** Development & Quality	**Davide Dalle Carbonare** EC FP6 QualiPSo / OW2 Project	
		Industrial Research		12:00	**FlossMetrics** Free/Libre Open Source Software Metrics	**Teo Romera** Rey Juan Carlos University	
12:30	Lunch break			12:30	Lunch break		
				13:00	**TOPCASED** Development & Quality	**Hubert Garavel** INRIA/VASY project-team	
13:30	**Haiku** BeOS-inspired Free Software Operating System	**François Revol** Joseph Fourier University		13:30	**Eureka/ITEA project GGCC** Development & Quality	**Julio Marino** Universidad Politécnica Madrid	

14:00	**Platine** Plumes Project	**Véronique Baudin** CNRS//LAAS	14:00	**Fractal & Frascati** SOA	**Lionel Seinturier** OW2 Project
14:30	**Research Friendly** Academic Community	**Teo Romera** Rey Juan Carlos University	14:30	**OCELOT** SOA	**Christophe Gravier** OW2 Project
15:00	**IzPack** Java Universal Installer	**Julien Ponge** Community Building	15:00	**Chameleon** SOA	**Pierre Bourret** OW2 Project
15:30	**Nepomuk** Linux Semantic Desktop	**Arnaud Laprévote** Mandriva	15:30	**Next Generation Forge** SOA	**Jérome Blanchard** QualiPSo EU project
16:00	**SIM-SyProd** INRIA	**Alain Boulze** Academic & Industrial Collaboration	16:00	**SOA Galaxy** SOA	**Alain Boulze** Agile SOA Platform ADT INRIA
16:30	**Quattor** Linux Grid	**Michel Jouvin** CNRS/Plumes Project	16:30	**Biocep-R Project** Cloud/SAAS for scientific computing & analytics	**Karim Chine** Startup
17:00	First day - Wrap up		17:00	Second day - Wrap up	
17:15	End		17:15	**SUN GLASS SPOT** Extraction **Contest Result!**	
			17:30	End	

Speakers and Abstracts

Lionel Seinturier

Lionel Seinturier is professor of computer science at the University of Lille and at INRIA in the ADAM project-team. Lionel research activities deal with middleware, component and aspect. He serves as architect and active developer in several OW2 projects (JAC, Fractal, FraSCAti). He is one of the three co-authors of the book Foundations on AOP for J2EE Development (APress, 2005). He is also the author of more than 30 publications in international conferences and journals.

Session

Fractal and Frascati presentations (SOA oriented)

Fractal: This presentation introduces Fractal which is a **modular, extensible and programming language** agnostic component model that can be used to design, implement, deploy and reconfigure systems and applications, from operating systems to middleware platforms and to graphical user interfaces. The goal of Fractal is to **reduce the development, deployment and maintenance costs of software systems** in general, and of ObjectWeb projects in particular. The Fractal component model has the following important features: **recursivity, reflectivity, component sharing, binding components, execution model independence, openness.**

FraSCAti: The Service Component Architecture (SCA) is a technology agnostic **standard for developing and deploying distributed service-oriented architectures (SOA).** However, SCA does not define standard means for runtime manageability (including introspection and reconfiguration) of SOA applications and of their supporting environment. This presentation introduces the FraSCAti platform, which brings runtime management features to SCA, and discusses key principles in its design: the adoption of an extended SCA component model for the implementation of SOA applications and of the FraSCAti platform itself; the use of component-based interception techniques for dynamically weaving non-functional services such as transaction management with components.

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INRIA

Web link

http://fractal.ow2.org
http://frascati.ow2.org

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Christophe Gravier

Christophe Gravier is an assistant professor under contract from TELECOM Saint-Etienne. Following his engineering studies, he received his Master of Sciences from TELECOM Saint-Etienne, and his Master of Research from INSA Lyon in computer science. He received his PhD from the University Jean Monnet of Saint-Etienne in the field of remote instrumentation. Christophe Gravier is today a with the University of Saint-Etienne where he teaches algorithmic, Java programming, C++, and Human-Computer Interactions. He continues his research for new approaches and models for online engineering. He is the head of the SATIn research team (10 researchers in the field of adaptative systems) at the DIOM laboratory, and he is, since 2009, the Vice-President of Academic Relations and Research of the International Associal of Online Engineering (non profit organization of 200+ researchers).

Session

Project OCELOT - Open Collaborative Environment for the Leverage of Online Engineering

OCELOT (Open Collaborative Environment for the Leverage of Online Engineering) is issued from a research project prototype, realized at the DIOM laboratory of TELECOM Saint-Etienne, associated school of the French Institut TELECOM (formerly GET). **OCELOT allows the remote control of apparatuses, instruments, devices in an industrial, research and education context.** The main originality of the framework is to **support synchronous collaboration** (Computer-Supported Collaborative Work), and to minimize the amount of integration time when putting a new device online. The **underlying middleware is based on JOnAS (EJB3) and JORAM**, but also on other technologies from the Web 3.0 (**semantic web** : ontologies). OCELOT is becoming an open source project, hosted at OW2.

telecom
Saint-Etienne

Stefano Scamuzzo

Stefano Scamuzzo has been working in IT field since 1989. Initially involved in European research projects on hypertext technology, he then undertook the technical management of complex projects in several technological areas such as document and workflow applications, web based applications, enterprise portals and business intelligence applications. He is presently Senior Technical Manager in the Research and Innovation Division of Engineering Ingegneria Informatica and member of the SpagoWorld Executive Board, mastering the domains of Service Oriented Architecture and Business Intelligence with a particular focus on open source solutions. He teaches training courses on Service Oriented Architecture at the Engineering Group ICT Training School in Italy.

Session

SpagoBI Presentaion - OSS Business Intelligence platform

This talk presents SpagoBI, the **Open Source Business Intelligence platform,** developed and supported by Engineering and hosted by the OW2 Consortium. SpagoBI 2.0 marks a significant step ahead in the OSBI domain thanks to its solid and scalable architecture, based on the Service Oriented paradigm, to its powerful security and profiling management and to the presence of a **big variety of analytical solutions, ranging from classical reporting and dimensional analysis to original and innovative modules**. You will discover how it is possible, in a secure and ergonomic environment, to build Business Intelligence and Decision Support Solutions by leveraging analtycal tools as: reporting, **OLAP engines, dashboards, KPI Engine, Location Intelligence to plot data analysis on geographical maps, Analytical Dossier** to improve collaboration and cooperation between BI actors. The talks ends with a short illustration of the SpagoBI business model and the professional services provided by Engineering and OW2.

Web link

Julien Ponge

Since september 2009, **Dr Julien Ponge is an associate professor at INSA-Lyon**, a leading engineering school in France. He teaches in the **Department of Telecommunications, Services and Usages** while he does his research activities as part of the **CITI Laboratory** / **INRIA** in the **Amazones** group.

Prior to joining INSA-Lyon, he obtained a **PhD in computer science and engineering** from **Université Blaise Pascal**, Clermont-Ferrand, France, as well as a PhD *under cotutelle agreements* from the **University of New South Wales**, Sydney, Australia. He was also a temporary lecturer at **ISIMA**, the computer science and engineering school of Université Blaise Pascal.

His research interests cover middlewares, service-oriented architectures, application integration, next-generation software distribution and deployment.
He is also a long-time opensource craftman that enjoys learning about new technologies and practices, as well as attending and speaking at industrial events. He is the creator of the **IzPack installer**, and he has participated in several other projects, including the **GlassFish application server** in cooperation with Sun Microsystems. As such, he is highly motivated in developing **synergies between industry and academic research**.

Session

IzPack - Open Source one-stop solution for packaging, distributing and deploying applications.

IzPack is a **one-stop solution for packaging, distributing and deploying applications.** It is able to **generate cross platform, Java-based installers** that both encompass and embrace the target operating systems heterogeneity (Windows, Mac OS X, Linux, *BSD, Solaris). IzPack is by no mean rigid and lets you compose your installers the way you want through a wide range of existing features and extension points.

This talk will outline: the IzPack features, its use-cases and positioning against other deployment solutions, the **history of the project**, from a fun hack made in a student dorm-room to an industry-backed international project thoughts on **building a project community, licensing matters, sustaining/scaling a project in the long term and business-model considerations.**

Web link

Karim Chine

Karim Chine is the Author and designer of the Biocep-R platform, and the Elastic-R portal for on-demand scientific computing. Karim is also the founder of Cloud Era Ltd (2007). He has a long and successful record in large scale software design and he has been a member of staff at several organizations including in reverse chronological order: Imperial College London, the European Bioinformatics Institute, ILOG, Air France and Schlumberger. He holds a BSc in Theoretical Physics and two engineering degrees from French Grandes Ecoles (ENST and Ecole Polytechnique).

Session

Biocep-R, a **mainstream Statistical and Scientific Computing Environments** (R, Scilab, Matlab, SAS..) and a federative and user-centric **OSS platform for High Performance Computing**.

With Biocep-R, We propose to build on top the mainstream Statistical and Scientific Computing Environments (R,

Scilab, Matlab, SAS..) a federative and user-centric OSS platform for High Performance Computing, data analysis and collaboration. Biocep-R computational engines can be running locally or remotely (on Servers/Clusters/Grids/Clouds) and can be accessed from the Researcher's laptop. The Researcher can use an extensible cross-platform workbench to pilot the engines and can also control them programmatically. The workbench includes highly programmable server-side spreadsheets fully integrated with the SCEs functions and data and that can be mirrored to Excel's spreadsheets.

Multiple Researchers can connect simultaneously to the same the remote computational engine and use it collaboratively via a set of broadcasted views . The Researcher can easily create or connect to multiple engines running on one or multiple heterogeneous infrastructures and use them for parallel computing. The plug-ins architecture offers a highly innovative way to produce and distribute SCE-based User Interfaces for Academia (Science gateways) and Industry (Financial Dashboards, What-if-analysis user interfaces, analytical applications...). Biocep-R on local virtual appliances opens new perspectives for reproducible computational research.

Virtual Machines with R,Scilab and Biocep are publically available on Amazon's Elastic Cloud and can be run on demand to perform statistical/numerical computing using "unlimited" computational and storage resources. The Presentation will give an overview of this new platform and the main usage scenarios will be demonstarted.

Biocep Computational Open Platform Ecosystem

Web link

http://www.biocep.net/
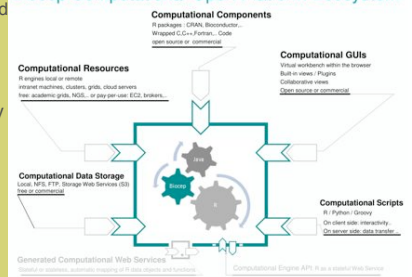
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Romain Dénarié

Romain is a French computer science engineer. He hold a degree of Computer Networks, Communication and Multimedia from Polytech'Grenoble.

He worked for Thales Service as a Software Engineer and joined Exo company in February 2008. He manages Europeans customers projects.

Session

eXo platform

eXo Platform is a French company founded in 2003 and now employing 100 collaborators. eXo Platform is developing **Open Source collaborative software** that are based on an **innovative web portal solution** which enables the **virtualization of the work space** through an advanced WebOS interface. Standing in the international market, eXo Platform count as its **customers the American Department of Defense, the Belgium Financial Minister, the State of Geneva** and some French general councils, as well as major industrial customers who chose eXo Platform products for huge projects involving thousands users.

Web link

http://www.exoplatform.com/
http://forge.ow2.org/projects/exoplatform/

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Davide Dalle Carbonare

Open Source consultant and IT solution architect at Engineering Ingegneria Informatica

Davide is Spago4Q architect. He is also involved in the design and development of enterprise portals projects with a focus on content and document management systems integration.

He is actually working on various other activities like: quality monitoring of software processes and products; software selection; collaborative methodologies for project management, software development infrastructures integrating open source tools; project automation; performance test and application profiling. He is currently involved in the EU Qualipso project **www.qualipso.org**, working on trustworthy results and processes.

Session

Spago4Q is a free/open source platform, based on SpagoBI (**www.spagobi.org**) and **used for the assessment of the maturity and effectiveness of the software development process** as well as of the **software quality**. It also supports the evaluation of the compliance of software services with the pre-defined **Service Level Agreement**. This goal is **achieved by evaluating data and measures collected from various development and supporting tools with non-invasive techniques**. Spago4Q is currently used both in industrial environments and in research ones, like the Qualipso software platform. Both Spago4Q and SpagoBI projects are hosted by OW2.

Web link

http://www.spago4q.org

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Miguel Valdes Faura

Miguel Valdes Faura is the Chief Executive Officer and co-founder of BonitaSoft. Miguel is leading BonitaSoft to achieve its mission: to bring to the market a fully functional Open Source BPM solution. Miguel is the co-founder of Bonita project, created in 2001, with the vision that BPM would become mainstream in every company's IT portfolio. Prior to BonitaSoft, Miguel was leading BPM R&D, pre-sales and support activity for Bull. He brings to BonitaSoft a strong knowledge of open source communities and open source business models.

Miguel is a regular speaker at international conferences : JavaOne, Internet Global Congress, Open Source World Conference, javaHispano Conference, ObjectWebCon, COSGov, JavaBin.

Session

Discover how you can easily develop and maintain web applications with an intuitive and powerful open source BPM solution such Bonita Open Solution.
Learn how you can draw processes as naturally as on a whiteboard; how connect to your information system from your processes and how to run your processes as an standalone web application in your favorite browser.

Web link

http://www.bonitasoft.com

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James Weir

James Weir is Chief Technology Officer at UShareSoft Start-up.

James has over 12 years experience in the IT Industry. He is a co-founder of UShareSoft and currently holds the position of CTO where he is responsible for the technical vision of the core platform and products and ensures this aligns and dove-tails into the business strategy.

Prior to UShareSoft, James worked at Sun Microsystems for 9 years where he held key roles in software innovation, quality engineering and business development for Sun's entire software portfolio including Solaris and Java Enterprise Suite.

James holds a Bachelor of Engineering in Electrical & Electronic Engineering from Heriot-Watt University, Scotland.

Session

Making Open Source Mainstream with Next Gen Forge
Zero to Hero in 30 Minutes !

Founded in 2008, UShareSoft's mission is to deliver an easy to use software appliance factory, formally named UForge that provides the best SaaS platform to create of business ready software appliances. **We make it simple for individual developers, communities, and professionals to build from open source software, integrate their applications into ready-to-run virtual images, software appliances or virtual appliances.**

Complementing UForge SaaS web services platform, **UShareSoft provides a Rich Internet Application** (RIA) desktop client named UShare Builder. UShare Builder provides a seamless user experience to create, build, update and maintain software appliances.

UShareSoft strongly supports the **sharing and participation age and believes in the open source movement.** The UForge platform is **built on top of a number of open source components** and we provide a large catalogue of open source operating systems and projects to help you easily construct software appliances. In addition, **UShareSoft provides to Open Source projects and Communities access to free Open Source Project accounts on the UForge platform.**

Web link

http://www.usharesoft.com/

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Pierre Bourret

Pierre Bourret is Research Engineer in the ADELE team at the University of Grenoble since 2008, and is a contributor of the Apache Felix iPOJO project. He's currently working on ambient intelligence in the home context, through the H-Omega project, heavily relying on OSGi and iPOJO. He's also involved in several European Project such as Osami. Finally, Pierre is one of the co-founders of OW2 Chameleon.

Session

The Chameleon project delivers a **set of pluggable Java components for OSGi frameworks**. The objective of the Chameleon Ecosystem is to develop components, methods and frameworks helping to **assemble, run, customize, distribute and manage OSGi applications**. This includes implementations and extensions of specifications defined by the OSGi Alliance. It also includes "OSGified" components developed at OW2. In addition, the project maintains a **service-centric OSGi Bundle Repository** (OBR) enabling the deployment of those components, and proposes a way to assemble those components inside customizable application servers. This talk will briefly present Chameleon and **present three show cases illustrating how the same infrastructure can be used** in two different domain: a RIA / Desktop application, a home gateway, and an enterprise application.

Web link

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Julio Marino

Julio Mariño is an assistant professor at the Computer Science Department of Universidad Politécnica de Madrid, where he earned a Ph.D. in Computer Science, and leads the Babel research group, aimed at reliable software development through the use of declarative languages and formal techniques.

His research activities are mostly concerned with declarative programming languages, focusing on semantics, compilation and analysis techniques, and more recently, the inclusion of concurrency. He has developed Sloth, one implementation of the multiparadigm language Curry.

An early advocate of free software, he has been program chair of the Spanish conference on open software (Hispalinux V), and took part in GGCC, an Eureka-labelled project to bring advanced compilation techniques to the gcc environment.

Session

The presentation will start by summarizing some results of the Eureka/ITEA project GGCC (**Global GNU Compiler Collection)** where Julio collaborated in the design of an **open platform for coding rule validation.**

Then, the presentation continues on ellaboration on the different connections between formal techniques, in a broad sense, and open source software development. Finally, I will discuss how these examples lead naturally to the **emergent concept of semantic forge**.

Web link

http://www.ggcc.info
http://babel.ls.fi.upm.es

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Michel Jouvin

Michel JOUVIN has been working at LAL as a computer engineer for more than 15 years, with responsabilities in computing operations. Since 2005, he is the technical coordinator of GRIF, a major distributed EGEE/LCG site in Paris region, involving 6 different laboratories and has acquired a strong experience in managing a technical team of several partners. For many years, he has been personally involved in Quattor development and has made major contributions to Quattor core components, SCDB and grid templates. Since 3 years, he is the Quattor Working Group chairman and spent a significant time to get the Quattor community organized. He was one of the initiator of the Quattor Workshop, the decision-making meeting for the Quattor community. He is also very concerned with dissemination and training issues and started the wiki-based documentation effort known as the QWG wiki.

Session

Quattor is an open-source tool aimed at efficient **management of fabrics with hundred or thousand of Linux machines**, still being easy enough to manage smaller clusters. It has been originally developed during the European Data Grid (EDG) project. It is now in use at more than 50 grid sites running gLite middleware, ranging from small EGEE/LCG T3 to very large one like CERN.

Quattor ability to factorize common part of description configuration and advanced features of PAN language used to do this description allowed to build and maintain a common set of templates that any site can just import and customize without editing them. This resulted in the so-called QWG templates, a complete set of standard templates to configure OS and gLite middleware. This results in a very efficient sharing of installation and configuration tasks around the world. This could be extended to many service configuration other than grid services and is already available for standard services like mail, web servers… with a support for configuring virtual machines.

This presentation, in addition to Quattor specific features, will introduce **how the project is managed by the community and plans for the long-term sustainability** of the product.

Web link

https://trac.lal.in2p3.fr/QWG

http://www.projet-plume.org/fr/fiche/quattor

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Teo Romera

Teófilo Romera-Otero: earned a degree in computer engineering at the Rey Juan Carlos University. His academic interests are libre software and how corporations relate to it. He is also interested in global software development in libre software environments and enabling technology through libre software. He works at the GSyC/LibreSoft group as an Research and Development (R&D) Project Manager on national and European projects, such as Calibre, Edukalibre, FLOSSWorld, Morfeo, Vulcano, Qualipso, FLOSSInclude and Tree. As part of his duties in the group he also participates in technical consultancy on libre software and coordinates teaching in the Master on Libre Software organized and run by GSyC/LibreSoft. He is a member of the Qualipso Network Board that manages the Qualipso Network of competence centres and of the NESSI OSS Working Group. He was a guest researcher at the University of Leeds (UK) and at the Irish Software Engineering Research Centre (Lero) at Limerick University in Ireland.

Session

FLOSSMETRICS: The main objective of FLOSSMETRICS is to construct, publish and **analyse a large scale database with information and metrics** about libre software development coming from several thousands of software projects, using existing methodologies, and tools already developed. The project will also provide a **public platform for validation and industrial exploitation of results**.

ResearchFriendly: ResearchFriendly.org has as main aim to **close the gap between the libre (free/open source) software community and the research community**. It wants to act as **a meeting point where results are shared**, ideas are discussed and new projects and approaches are considered.

Web link

http://www.ujrc.es

http://flossmetrics.org/

http://researchfriendly.org/

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Arnaud Laprévote

After having been industrial researcher during 7 years in TéléDiffusion de France and THOMSON multimedia, active on video processing and digital hardware design, Arnaud Laprévote created Free&ALter Soft in 1996 which was one of the very first open source professional service company in France. Free&ALter Soft survived the internet bubble, received investment, bought a startup (Linbox) in 2001, changed its name in Linbox FAS, and was bought by Mandriva in 2007. Arnaud Laprévote is now the director of research projects in Mandriva the Linux distribution editor.

"No! Lost again ..."

Session

Graphical environment today are not fondamentaly different of what they were in the Xerox Star workstation of the late 70s. Applications share the file systems, the screen, the network access, the clipboard, the keyboard, the mouse, and not much more. Applications are fondamentaly isolated from the others. Semantic technologies used in the Mandriva Smart Desktop integrated in the last Mandriva 2010 distribution are opening a new mean to share informations between applications. It leads to a real productivity increase. That's what we intend to explain and demonstrate during this presentation.

Web link

mandriva.com
doc4.mandriva.com

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Veronique Baudin

 Veronique Baudin is a research engineer at CNRS-LAAS (Laboratory of the French National Center for Scientific Research). She received her Ph.D. in 1980 at the Paul Sabatier University (Toulouse, France), her work has focused on an approach to real time production scheduling.

She has developed softwares (production management, discrete event simulation using PetriNets) used by many companies and universities. Since 1992 she has worked with the "Communications Software" research group at LAAS on various projects related to systems using high speed multimedia communications networks for cooperative applications.

She participated in the creation of a regional network for developers (COMPIL), and now she is engaged in creating a similar network at national level. She is responsible for the theme "Cooperative Work" in the PLUME project, and she is one of three pilots of RELIER project.

Session

The interests of **synchronous communications in collaborative activities have been recognized by an important number of researches and experiments.** More recent technical environments offer the use of synchronous communications as a collaborative learning solution for a group of distributed users, where each one **gains independence from each other and joins a collaboration activity by their own**.

PLATINE environment offers a lot of mechanisms that can be **used in different contexts: e-learning ,co-design, cooperative work...**

After a short description of the PLATINE software, the goal of this presentation is to give the reasons why to distribute PLATINE under the free softwarelicence CECILL-B. We will present the difficulties encountered in this stage, but also the positive repercussions related to this kind of diffusion.
In conclusion, we will present a development and new usage of the PLATINE components.

Web link

http://www.laas.fr/PLATINE/
http://www.projet-plume.org/en/relier/platine-0

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Alain Boulze

Alain Boulze as a Specialist Engineer currently serves as Team and Project Coordinator at INRIA. He leads the INRIA technological development action "galaxy", which aims at integrating open-source software bricks developed by various INRIA research teams into an integrated SOA/BPM prototype platform. He is coordinating and contributing to multi party projects and initiatives in the field of Open Source SOA (French research projects JOnES, SCOrWare, SemEUsE and European research project NESSI SOA4ALL). He has spent over 20 years of experience in the software and IT industry.

Session

The SIM-SyProd project, "From models to industrial information systems: new perspectives for design and simulation of product and services along their lifecycle"

The **galaxy** Technology Development Action, **"An open agile SOA platform"**

Session 1: The **SIM-SYProd** action (« Service, Interoperability Modelling for Industrial Systems ») has been set up and driven by the GOSPI research cluster (France, Rhône-Alpes) to propose reinforced links between the modelling of business processes of an industrial system with the information and communication techniques as available today.

The study of industrial business processes implies a "concurrent" approach bringing together distinct specialized viewpoints and conducting to an overall and multidisciplinary vision: business modelling, information technologies and innovation challenges are to be considered simultaneously and as a whole.

The **main innovative aspect of this collaborative action has been to bridge and manage interfaces between two domains, on the one hand industrial system engineering and information systems modelling**, on the other information and communication technologies. This initiative has enabled bringing together crosscutting skills and expertise, and **has demonstrated the interest of building an open, sustainable, multi-disciplinary, collaborative and "concurrent" research group**.

Such a group would focus on the following main challenges: 1) identify what could be the usage of research results by

potential industrial end users, 2) support the activities of this research group by an open-source based organisation, 3) collaborate in the same time both at a) concrete level (co-development process) to extend, deploy and facilitate the adoption of existing technologies to the context of real-world usage scenarios, and at b) experimental level as well, to develop through a co-evolution process, technologies and tool-based methods to transform a business and user requirement into an information system model, using in a concurrent manner concepts of service, agent, model, process, and based on a concrete study case.

Session 2: The INRIA's galaxy ADT (Technology Development Action) contributes to make INRIA a **value-added player in the SOA** (Service-Oriented Architecture) arena, by providing an open SOA platform, enabling agility using dynamic architectures. This ADT will work for INRIA and INRIA's research project-teams direct benefit, and aims at pre-assembling technological bricks from various teams, projects and preparing them to be transferred through the open source software channel.
galaxy provides an integrated environment by assembling and leveraging INRIA's open-source technologies. **galaxy allows to design, deploy, run, monitor systems, following concepts and paradigms inherited from service-oriented, process and dynamic architectures,** and offering a set of management functions for agile and dynamic systems. galaxy technologies are most of them compliant with the Eclipse and the SCA standards.

Web link

Hubert Garavel

Hubert Garavel is research director at INRIA. He leads VASY, an INRIA/LIG research team working in the area of formal methods applied to safety-critical systems. His research activities encompass formal specification languages and associated methodologies, compiling and rapid prototyping techniques, verification and validation tools, all of which are used for critical systems, often in an industrial context. The presentation he will give of the TOPCASED project has been jointly prepared with Patrick FARAIL (Airbus), leader of the TOPCASED project.

Session

TOPCASED (The Open-Source Toolkit for Critical Systems) is a software environment primarily **dedicated to the realization of critical embedded systems** including hardware and/or software.

Started in 2004, TOPCASED covers specification, design and coding stages, including usual fonctionalities such as configuration and change management. TOPCASED is based on Eclipse, and promotes model-driven engineering and formal methods as key technologies. It is developed by a consortium gathering more than 35 partners (big, medium, and small companies, research centers and universities) and is released as free/libre/open-source software**.**

It has been downloaded about 100,000 times during the last twelve months.

Web link

Jérome Blanchard

Jérome Blanchard is an engineer at INRIA LORIA in the SCORE team since march 2007. After a master in computer science obtained at Université Henry Poincaré - Nancy in 2003, he worked as R&D manager for a french web agency (2st). He released the KiwiCMS system based on an the Libresource open source kernel. Kiwi-CMS is currently running in companies & administrations like 'Crous Nancy Metz', 'Théatre de la manufacture', 'Conseil régional de Lorraine'. Jérome Blanchard decided to join the ECOO team that developped Libresource in order to participate to the Qualipso project. Jérome Blanchard is now responsible of developing & maintaining the core components of Qualipso Factory.

Session

Objective of **Qualipso Factory is to develop the next generation forge based on SOA architecture.** SOA principles helps removing actual forges problems like monolithic architecture, heterogenous integration and security, hosting and maintenance costs.

The QualiPSo Factory relies on a component model to assume composition of resources. **This component model allows contributors to plug new services easily in the forge.** These new services can tÈake advantage of generic built in services such as naming, security, indexation, notification.

For now, qualipso partners are validating this model by contributing in original service development. First release should come before end of 2009.

Web link

Francois Revol

François Revol is one of the main developers of the Haiku MIT-licensed operating system, and contributes to many other free and opensource projects like FFmpeg or NetSurf. Engineer graduated from ESISAR (INP Grenoble), he has worked for a german company on many aspects of the BeOS including kernel and FOSS application ports, participated in FOSS projects for a local company, and is now a Ph.D student at both LCIS (INP Grenoble) and LIG at Université Joseph Fourier, Grenoble, France.

Session

Haiku is a lightweight desktop-focussed alternative operating system **inspired by the BeOS**, designed from the ground up with its own kernel and graphical interface.

A brief history of the project will be presented, along with the **genesis of its community** from the ashes of the BeOS proprietary operating system, and how it fits with the other FOSS communities like the GNU/Linux users.
Other topics will include choice of the **MIT licence** and design considerations like the modular kernel architecture and software layers coherency, **integration of other FOSS projects**, as well as existing and possible usage for **academic needs**.

Web link

http://ffmpeg.org/
http://www.netsurf-browser.org/
http://esisar.grenoble-inp.fr/
http://www.liglab.fr/
http://lcis.grenoble-inp.fr/

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