

NOVAFORGE

SOFTWARE DEVELOPMENT FACTORY

Key Words :

- Forge
- Java EE™
- UML
- MDA

NovaForge, a state-of-the-art industrial shared and secure platform to improve development efficiency in distributed environment

NovaForge is an integrated collaborative development platform, covering all the life-cycle of Enterprise software development, from requirement definition to support and maintenance.

NovaForge integrates the best Open Source software development components, within a state of the art architecture based on collaborative development projects, like Qualipso, funded by the European Community.

Repository: build consistent applications by capitalizing on best practices

NovaForge repository allows to share in a shared database, all elements allowing to capitalize on best practices, tools and procedures. NovaForge repository is made up of many different functional elements, such as libraries of technical and graphical components and blueprints for project tools and methodological guides.

Collaboration: share project information in a secure and structured way

The NovaForge collaboration portal offer a single access point to all projects environments and forge services. The portal infrastructure is structured around two main functions:

- Communication, using tools for collaborative working such as forums, lists of messaging, wikis.
- Orchestration of user rights and management of the customization of data and access to different databases and forge services.

Development: take advantage of a flexible software development environment

The NovaForge software development environment, based around the Eclipse IDE, provides the developer with tools needed to design and develop software:

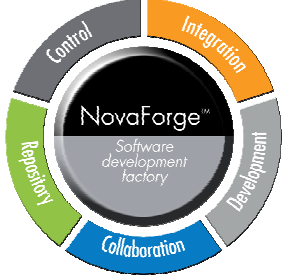
- Application modeling, based on the UML model, according to requirements
- Code generation, using a Model Driven Architecture (MDA)

Integration and testing: automated integration and testing to improve development quality

NovaForge provides the structure and tools needed to ensure successful continuous system integration, allowing systematic “nightly build” reconstruction and automated testing of the application.

Control: Manage the state of progress on your projects in real time

NovaForge provides dashboards to follow the progress of the development activity and to master project quality, resources and costs.



Project Name

- NovaForge

Category

- Software engineering

License

- GPL

Community

- Bull
- Exo Platform
- Obeo
- Grenoble University
-

Professional Support

- Bull Services

NovaForge functional architecture and tools

The different steps of software development, from requirements definition, code development and testing to support and maintenance are instrumented by NovaForge, through two development platforms: a workstation development environment and a collaborative development server.

Development workstation

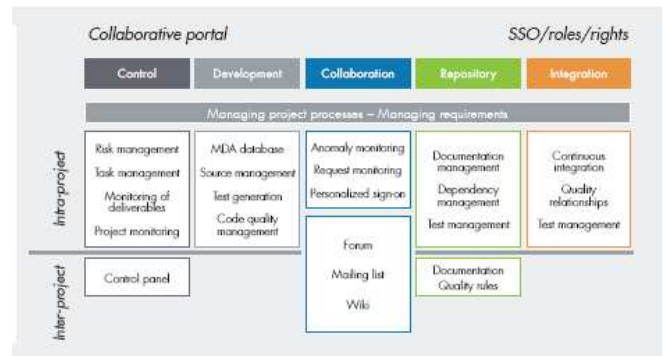
The development workstation is based on two main environments:

- A design environment allowing to modelize the application in UML diagrams according to the use cases and to generate the tests sheets for the developers.
- A development environment based on the Eclipse IDE, and NovaForge added-value components and plugins providing :
 - integration with the design environment,
 - integration of code generation tools (Acceleo, ...),
 - communication with the collaborative development environment.

Collaborative development server

The different actors of the projects (developer, integrator, tester, project manager, ...) access to the collaborative development server through a portal which provides them with the needed environment and tools to achieve their respective tasks. This portal is implemented with Exo Portal and provide the following services:

- Customisation of the interface according to the role of the user within the project.
- Collaboration between the users at the project or the software factory levels
- Single Sign On and security: the user logs in one time and only one to access to the different forge services used within his/her project(s)
- Integration of the forge services, according to the JSR 168 portlet standard



Key Features

- User and roles management
- Project management
- Single sign-on
- Web access to forge services
- Document Management
- Source control management (Subversion)
- Bug tracker (Mantis)
- Wiki (Dokuwiki)
- Forum (PhPBB)
- Lists of messaging (James)
- Repository management (Archiva)
- Continuous integration management (Hudson and Sonar)
- Quality testing (PMD, Emma, Checkstyle, ...)
- Tests management (Salome-TMF)
- Tasks management
- Actions, risks and deliverables management
- Eclipse plugins for PHP and Java code generation (NovaStudio, Acceleo)

Professional Support



www.bull.com

OW2

OW2 Consortium
21 rue de Madrid
75 008 Paris, FRANCE
www.ow2.org
contact@ow2.org

About OW2 Founded in January 2007 as a result of the merger of ObjectWeb and OrientWare communities, OW2 is an independent industry consortium dedicated to developing open source code middleware and to fostering a vibrant community and business ecosystem. Building on the legacy of ObjectWeb and OrientWare, OW2 federates more than one hundred organizations and 6000 developers in Europe, Asia and the Americas. OW2 hosts over one hundred technology Projects, including Lomboz, Sync4j, eXo Platform, XWiki, SpagoBI and JOnAS. Several of the OW2 projects are combined into market-driven Initiatives, such as the ESB/SOA Initiative and the Business Intelligence Initiative, which facilitate their implementation by systems integrators, OEMs and end-users. A typical global open-source organization, OW2 aims to bring together grassroots communities across all continents through Local Chapters. [More information about OW2 is available at http://www.ow2.org.](http://www.ow2.org)

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