



BONITA



A flexible workflow engine

Main benefits

Improve the efficiency of collaborative work with Bonita: a team shares a common view of the current tasks, each individual can have real-time awareness about what is going on.

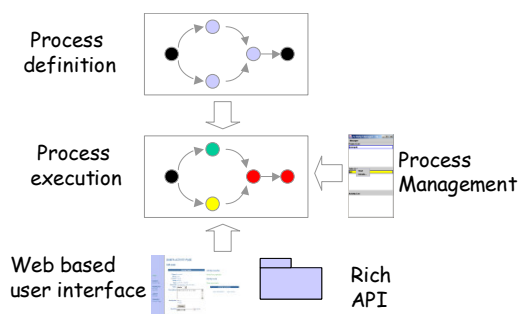
Reduce costs and risks by automating person-to-person and system-to-system processes. Processes can span over organizations and geographical locations.

Handle efficiently unexpected situations: Bonita allows you to securely and dynamically modify the definition of a running process in order to take into account events that were not planned.

Flexible data management and flexible workflow execution are possible by means of Bonita activity anticipation model. All users have the initiative to execute their activities.

Main features

Bonita is a flexible and generic workflow system conforming to the WfMC¹ model .



Bonita includes:

- A comprehensive set of integrated graphical tools for process definition and management, and for interaction with the users.
- A third generation process execution engine based on the activity anticipation model. This flexibility allows a considerable increase of speed in the design and development phases of cooperative applications.
- A set of rich APIs allowing full control on the definition and execution of processes.

A process is a set of activities sharing a common execution model. Relationships between activities are defined by the nature of transitions (or edges) between them. Transition conditions can be defined, as well as the processing of events such as the occurrence of a deadline. Activities can be allocated to users according to the role they are allowed to have.

Bonita has been already downloaded more than 35000 times. It is a building block of several open source projects, for example a large-scale collaboration platform or the eXo ECM project

Bonita has many innovative features like:

- Ability to securely modify the definition of a running process.
- Activities can expose intermediary results before their completion.
- Flexible awareness and profiling infrastructure, allowing process actors to be notified of process events through a variety of means. E-mail and Jabber Instant messaging are currently supported.
- APIs are available both with an RMI and a Web Service binding.

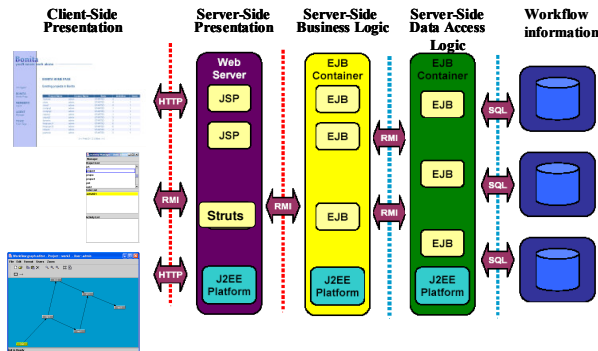
¹ Workflow Management Coalition

Architecture

Bonita is completely developed in Java and is fully conformant to the J2EE architecture. Bonita takes advantage of J2EE constructs like Enterprise Java Beans, asynchronous messaging and J2EE Web services support.

This built-in compliance to J2EE provides key advantages in term of robustness, performance and flexibility. Examples of such benefits include high availability configuration, transparent support of any kind of JDBC conformant databases and flexible deployment model.

Bonita runs on the robust JOnAS open source application server from ObjectWeb.



About ObjectWeb

ObjectWeb is a consortium of leading companies and research organizations from around the world who have joined forces to produce the next generation of Open Source Middleware. ObjectWeb targets alternative solutions to proprietary products for e-business, EAI, data connectivity, grid computing, and enterprise messaging applications. Based on Open Standards, ObjectWeb's middleware includes application servers, components, frameworks and tools. Founded in 2002 by Bull, France Telecom and INRIA, ObjectWeb is hosted by INRIA, and is sponsored by Together Teamlösungen GmbH. To find out more about ObjectWeb, visit our web site at <http://www.objectweb.org>.

About INRIA

The ECCO team, part of the LORIA research unit of INRIA, a co-founder of Objectweb, has been the key contributor to Bonita. The goal of the ECOO team is to design and implement basic services as well as develop a methodology in order to allow the creation of virtual, distributed enterprises. The main focus is cooperation through object sharing in interactive applications (co-design, software engineering, cooperative editing, workflow) distributed on a Wide Area Network (typically Internet). INRIA's ambition is to be a world player, a research institute at the heart of the information society. INRIA aims to network skills and talents from the fields of information and computer science and technology from the entire French research system. This network allows scientific excellence to be used for technological progress, for creating employment and wealth and for new uses in response to socio-economic needs. INRIA has a decentralized organization (6 Research Units) and small autonomous teams. It is also strengthening its involvement in the development of research results and technology transfer: 400 R&D contracts with industry and 50 technology companies have been born of the Institute.

About Bull

Bull, one of the ObjectWeb founding members, is a contributor to Bonita. Bull is an international IT group that specialises in designing, developing and implementing secure IT infrastructures. Bull is dedicated to helping customers transform their processes and infrastructures in order to take full advantage of information technology to drive their market growth. To reach this objective, Bull provides a complete offer that includes not only IT services, from consulting to systems integration and outsourcing but also the design and development of infrastructure solutions, with particular emphasis on servers, storage and secure management software. Bull has gained strong recognition in the major economic sectors, such as the public sector, finance, industry and telecommunications. More information about Bull is available at <http://www.bull.com/>.

Download Bonita at <http://forge.objectweb.org/projects/bonita/>



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