

JBoss JBPM

WHAT IS IT?

JBoss jBPM is a JBoss Enterprise Framework that delivers workflow, business process management (BPM), and process orchestration in a scalable and flexible product footprint.

WHAT DOES IT DO?

JBoss jBPM enables enterprises to create and automate business processes that coordinate between people, applications, and services. Designed for the mass market as well as supporting enterprise scale applications, JBoss jBPM brings process automation to a much wider set of business problems ranging from embedded workflow to enterprise business process automation and BPM.

WHY SHOULD I CARE?

JBoss jBPM reduces development time to automate and integrate business processes leveraging IT. JBoss jBPM provides the tools and process execution engine to integrate services deployed in a service-oriented architecture (SOA) and automate workflows in Java and Web applications to reduce business process error, speed process execution, and enhance business performance.

OVERVIEW

Organizations need to leverage their existing systems and ensure that all applications and business processes being created provide the business agility to adapt to customer needs and market conditions tomorrow. IT organizations need a consistent and cost-effective way to organize the interactions between their applications and services in order to create new or improved business processes. JBoss jBPM is a workflow, process automation, and pageflow platform that enables coordination between disparate applications and services, resulting in the deployment of new revenue generating business processes.

JBoss jBPM combines the easy development of workflow applications, business process flows, and web application pageflows with a flexible and scalable process engine. It can be used in the simplest environments or scale to handle the most complex clustered J2EE application environments. JBoss jBPM enables interoperable applications to be implemented and deployed quickly and easily. By providing a flexible and robust framework for creating, coordinating, and monitoring business processes, JBoss jBPM makes changing complex business processes dramatically easier, significantly enhancing business agility.

FLEXIBLE AND SCALABLE PROCESS ENGINE

JBoss jBPM process engine provides a powerful foundation for orchestrating interactions between applications and services. It is suited to service-oriented architectures and is interoperable with all of the J2EE-based integration technologies including Web Services, Java Messaging, J2EE Connectors, JDBC, and EJBs. The process engine automatically handles state, variable, and task management as well as process timers and audit logging across all active processes. And JBoss jBPM provides visibility into the current end-to-end state of processes in which users and applications are interacting. While properly executing long-running processes is a complicated task, JBoss jBPM handles the complexity in a flexible and scalable manner.

JBoss jBPM unifies the definition, execution, and administration of workflow processes and provides a centralized platform for managing interactions with users and systems.

EMBEDDABLE AND PLUGGABLE ARCHITECTURE

JBoss jBPM is designed to run standalone or be seamlessly embedded within any Java application or programming framework, such as JBoss Seam. The nature of its embedding is completely customizable to the requirements of the application. Furthermore, JBoss jBPM's pluggable architecture allows extensibility and customization on every level; within the process engine, for each process definition and every corresponding process instance.

JBoss jBPM is designed to support multiple process languages and environments including jPDL for workflow and human task management, BPEL for web services orchestration (planned for a future release), and page flow constructs for embedded workflow in web applications. This ability to support multiple process languages is a key differentiator for enabling both process developers and web application developers to utilize a unified platform for creating a wide range of applications.

INTEGRATION WITH JBOSS SEAM

JBoss Seam is a framework for creating Web 2.0 and rich enterprise applications based on EJB3, Java Server Faces (JSF), AJAX, and other innovative technologies. JBoss Seam provides declarative application state management for all Java components and tightly integrates with JBoss jBPM for its support of page flow scenarios. JBoss Seam components are stateful and contextual, with a well-defined container-managed life cycle. By using JBoss jBPM with JBoss Seam, developers are able to write applications with complex workflows and user interactions more easily.

EASY PROGRAMMING MODEL

JBoss jBPM provides a truly unique process-oriented programming model with its Process Definition Language (jPDL). jPDL blends the best of both Java and declarative programming techniques and enables developers to structure their software around an easy to understand process graph. This approach describes business processes in a common dialect that lets business people and developers speak the same language, facilitating a more agile implementation of the processes required by business people.

JBoss jBPM includes an Eclipse-based visual designer that simplifies jPDL development. The JBoss jBPM visual designer supports both a graphical and an XML code view of the business process or workflow being developed enabling people with different levels of programming skill to collaborate.

RICH PALETTE OF PROCESS-AWARE NODES

JBoss jBPM includes an assortment of pre-built process jPDL nodes that are used to declaratively build process graphs. These nodes provide the necessary process-building functionality such as start, task, fork, join, and decision. These nodes provide default process-aware execution as well as enable Java code to seamlessly plug in to extend the process logic and address the unique needs of the application.

ENTERPRISE-CLASS RELIABILITY AND SCALABILITY

Along with supporting business process flows embedded in Java applications, JBoss jBPM can be deployed with JBoss Enterprise Application Platform and benefit from its proven foundation for applications that require superior performance and scalability. The high-availability services of JBoss Enterprise Application Platform provide the clustering, caching, fail-over, load balancing, and distributed deployment features expected in a best-of-breed platform. Additionally, JBoss jBPM may be deployed with other application servers such as BEA WebLogic Server and IBM WebSphere Application Server.

Platform and Standards Support

Minimum system requirements

- » JDK 1.4.2 or higher
- » 512 MB RAM
- » 300 MB hard disk space

Supported operating systems

Since JBoss jBPM is 100% pure Java, it is interoperable with most operating systems that are capable of running a Java Virtual Machine (JVM), including Windows, UNIX, Linux, and others.

Supported Databases

Since JBoss jBPM uses Hibernate for its database access, it is interoperable with any JDBC-compliant database that Hibernate supports; including Oracle, MySQL, Hypersonic SQL, PostgreSQL, and many others.



JBoss ENTERPRISE FRAMEWORK SUBSCRIPTION BENEFITS

Subscriptions to JBoss Enterprise Middleware are easy to purchase and consume. Sold in both 4 CPU and 32 CPU Units, all JBoss Enterprise Middleware production subscriptions include:

- » **Product access:** Source and binary code; documentation
- » **Updates:** Regular updates that provide general enhancements, new features, etc.
- » **Revisions:** Access to the latest bug fixes and security errata
- » **Upgrades:** Rights to new versions of JBoss Enterprise Middleware released during the subscription lifetime
- » **Flexibility:** Subscriptions are not version-specific, so access to, and support for previous version is included
- » **JBoss Customer Support Portal:** Connect directly to JBoss support staff, open and track support cases in real-time, customize patch or upgrade alerts, and download certified patches and updates
- » **Support:** Multiple support services providing unlimited incidents and coverage up to 24x7 with 1 hour response
- » **Long term stability:** Multi-year support and update policies for all JBoss Enterprise Middleware
- » **Legal assurance:** The Red Hat Open Source Assurance program safeguards customers who are developing and deploying open source solutions from legal harm

Subscriptions of 32 CPUs or greater include additional value-add features, including JBoss Operations Network and Developer Professional Subscriptions. For subscriptions totaling less than 32 CPUs, both JBoss Operations Network and Developer Subscriptions may be purchased separately.

For more information on the full range of JBoss Enterprise Middleware and Red Hat Developer Subscriptions, please visit www.redhat.com/JBoss or contact your Red Hat sales representative.

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