

# JBoss ENTERPRISE PORTAL PLATFORM

## THE PORTAL CHALLENGE

Attempting to deploy the right portal solution today can present many challenges. One approach is to cobble together homegrown technology and other disparate products. While this method may or may not require a capital expenditure, it doesn't provide the long-term functionality most organizations require, and may wind up costing more to maintain in the long run.

At the other end of the spectrum, many companies will purchase a full enterprise-level portal suite. These suites can offer the technology and functionality required, yet many organizations tend to experience implementation challenges, or find that these portal suites are less flexible, less customizable, or not as easy to use as first represented.

## SOLUTION: JBoss ENTERPRISE PORTAL PLATFORM

JBoss® Enterprise Portal Platform from Red Hat offers an alternative to these two challenges and provides the technology needed to host and serve a comprehensive portal site. JBoss Enterprise Portal Platform delivers enterprise-class web presence that is both easy to create and manage. It uses enterprise standards to support a wide range of development approaches that provide flexibility and choice for enterprise web user interfaces.

## WHAT DOES IT DO?

JBoss Enterprise Portal Platform meets the demands of internal and external end users who require access to and interaction between back-end applications, SOA services, and Web 2.0 applications. Based on an open, reliable framework, JBoss Enterprise Portal Platform can meet the development and operational demands of the smallest tactical mash-up style application, as well as the largest mission-critical websites.

## WHY SHOULD I CARE?

The marketplace has shifted away from flexible, agnostic portals toward large, monolithic content and collaborative portal stacks. These stacks are costly, too bulky, and too complex to implement and manage. As a result, the original value and benefit of portals tends to get lost in vendors'

portfolios or stacks. While these stacks may be a good solution for large, internal corporate websites, they're hard to justify for focused web efforts.

What today's organization needs is a low-cost, easily-implemented solution that can be utilized across a wide range of user interface requirements. This is where JBoss Enterprise Portal Platform, an independent middleware solution, fits in.

## SOLUTION OVERVIEW

Many IT organizations are seeking a solution with a user interface that unifies multiple projects. As efforts in areas such as service-oriented architecture (SOA), content management, and business intelligence have expanded, it has been difficult to give end users a simple, easy-to-use interface that capitalizes on the benefits of infrastructure investments. JBoss Enterprise Portal Platform facilitates the delivery of web-based user interfaces and unifies these strategic IT projects consistently and securely.

JBoss Enterprise Portal Platform is deployed on JBoss Enterprise Application Platform, thus continuing to build on the strategy and vision of JBoss open choice. JBoss open choice provides Java application developers with the ability to choose the frameworks, APIs, and run-times that best fit their applications' needs—all without sacrificing operational requirements for stability, reliability, and management. The flexible, service-based architecture behind JBoss open choice provides a modular series of enterprise deployment features for clustering, caching, transactions, web services, security, and more, regardless of the selected programming model or deployment style used.

## KEY BENEFITS

### Get more value, faster

Past portal technologies were criticized for their inability to deliver business value in a short period of time. JBoss Enterprise Portal Platform offers several ways to enable a quicker return on investment (ROI). For example, an installation of JBoss Enterprise Portal Platform can be com-



pleted in minutes, and with new tooling plug-ins for JBoss Developer Studio, developers can create new portlets more quickly than ever.

#### **Make it easy to build and manage dynamic sites**

Companies today need faster, easier, and more efficient ways to build and manage dynamic sites. JBoss Enterprise Portal Platform makes it easy for users to achieve these objectives with powerful functionality, including easy-to-manage site controls, contextual menus, site maps, and other capabilities. Additionally, JBoss Enterprise Portal Platform improves rich Internet application (RIA) integration by delivering RIAs directly and securely into portals.

#### **Deploy a simple, flexible, and scalable solution**

When your organization selects JBoss Enterprise Portal Platform, it is delivered as a single binary file with all required software in one installation. Scalable clustering, provided through the fully-functional and supported JBoss Enterprise Application Platform, easily supports high-transaction volumes and millions of users. Additionally, JBoss Enterprise Portal Platform is certified to work with many of the most popular operating systems, databases, and security infrastructures, so it will work with what you have instead of forcing a bigger migration effort. All of these capabilities make JBoss Enterprise Portal Platform extremely easy to deploy and maintain.

#### **Increase IT agility**

To meet business demands, enterprise IT teams need to stay on top of new techniques and technologies. The latest Java frameworks may address a specific requirement that could not have been met in the past. A merger or acquisition could bring new skill-sets and opportunities. These opportunities should not be constrained by your portal.

JBoss Enterprise Portal Platform is structured to support a wide range of frameworks. For example, the JBoss Portlet Bridge makes it easy to reuse or create new portlets based on common rich Java presentation technologies. Features like the Portlet Bridge further facilitate an organization's ability to stay one step ahead and not be tied down by the platform.

#### **Deliver enterprise-class reliability and scalability**

JBoss Enterprise Portal Platform shields users from service disruptions by leveraging JBoss Enterprise Application Platform as its proven foundation for applications that require superior performance and scalability. Its high-availability services provide the clustering, caching, failover, load balancing, and distributed deployment features you expect in a best-of-breed platform.

#### **BUSINESS BENEFITS**

JBoss Enterprise Portal Platform is a proven, reliable, high-performance web portal solution that delivers the following critical business benefits:

- **Deliver services to new markets and channels:** JBoss Enterprise Portal Platform helped Heidelberger Druckmaschinen AG successfully create a customer-focused portal that enhanced overall customer relationships and provided internal business units with valuable customer insight.
- **Cross business boundaries:** JBoss Enterprise Portal Platform helped the Clinical Research Information Exchange (CRIX) create a shared knowledge base, enable increased opportunities for collaboration, and facilitate economies of scale unprecedented in the pharmaceuticals industry.
- **Provide world-class customer and citizen services:** Brazil's National Institute for Educational Research and Studies (INEP) migrated to JBoss Enterprise Portal Platform to improve the management of data from the Brazilian Education System's studies, research, and evaluations. As a result, INEP successfully increased scalability, performance, and stability—all while reducing costs and improving overall citizen service.
- **Deliver a significant return on investment:** Portals are a key driver in reducing the costs associated with highly-integrated websites and web applications. JBoss Enterprise Portal Platform enables developers to reuse branding and navigation and deploy new applications.

#### **JBoss Enterprise Portal Platform and architecture**

- Certified JSR - 286 portlet container
- Embedded open social container
- Multiple portal instances can run inside one container



- Portal instances can be clustered for failover and high availability
- Portlets can be implemented using JBoss Seam, JSF, RichFaces, Spring MVC, Struts, AJAX, and many other frameworks and development platforms
- Portlet sessions can be replicated in a clustered environment
- Portlets can communicate with each other in an implicit or explicit mode
- WSRP-base profile consumer and producer support
- Pluggable skins and templates
- Ability for users to create or destroy portlets and themes at runtime
- Single sign-on support across portal and portlets
- Support for many popular third-party SSO providers
- Pluggable authentication services
- Support for externalized user profiles and entitlements
- Single binary installer includes an embedded JBoss Enterprise Application Platform for quick installation
- Support for Kerberos and Windows desktop via single sign-on

#### **JBoss Enterprise Portal Platform administration**

- User registration and log in features
- Support for multiple languages, including right-to-left languages
- Integrated with JBoss jBPM for user registration, management, and page flows
- Full user management and administration interface
- Role- and group-based security model based on JAAS
- User-managed dashboard pages for gadget-driven mash ups
- In-line page layout and theme management
- Page creation wizards
- Portlet and Gadget Application Registry

- Ability to delegate security rights at all portal levels (portal, page, portlet, gadget)
- Custom error pages

#### **JBoss Enterprise Application Platform and Standards Support**

##### **Minimum system requirements**

JDK 1.6  
2 GB RAM  
500 MB hard disk space  
1.2 GHz CPU

##### **Supported operating systems**

JBoss Enterprise Portal Platform is 100 percent pure Java and interoperable with most operating systems capable of running a Java Virtual Machine (JVM), including Red Hat® Enterprise Linux®, Windows, and UNIX.

##### **Supported databases**

JBoss Enterprise Portal Platform is interoperable with any JDBC-compliant database and is certified on MySQL, Postgres, DB2, Oracle, Sybase, and MS SQL Server.

##### **Supported authentication and single sign-on**

JBoss Enterprise Portal Platform is LDAP 3.0 compliant and supports OpenLDAP, Sun, and Microsoft Active Directory.

JBoss Enterprise Portal Platform supports multiple single sign-on solutions, including CAS, OpenSSO, and JOSSO.

##### **Supported standards**

- Portlet Specification and API (JSR 286)
- Web Services for Remote Portlets 1.0 (WSRP)
- Portlet Bridge (JSR-301)
- Content Repository for Java Technology API (JSR-170)
- Java Server Faces 1.2 (JSR-252)
- Java Management Extension (JMX) 1.2





## Subscription benefits

Adding to the value of JBoss Enterprise Middleware, the subscription-based approach makes Red Hat solutions 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 versions 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 one-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 come with additional value-add features, including JBoss Operations Network and Developer Professional Subscriptions. For subscriptions totaling fewer 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.jboss.com](http://www.jboss.com) or contact your Red Hat sales representative.

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