

JBoss EAP Case Study: Advent Conferencing

OVERVIEW

This case study summarizes a recent JBoss EAP project for an audio and web conferencing company that is using technology to fuel their growth in a what has been seen as a commodity market. The JBoss EAP-based application “Advent Pulse” provides senior management, sales, marketing, operations and accounting a centralized interface for managing Advent’s business. The web based application provides customer relationship management, live interface with conference bridges for billing data extraction, business intelligence and sales commission management. It features real-time integration with the audio conferencing bridge through JBoss Messaging.

DELIVERABLES

- Stakeholder analysis and business analysis document
- Design and development of a functional web application and accompanying documentation
- Ongoing application support contract

JBoss TECHNOLOGIES

CITYTECH leveraged the JBoss Enterprise Application Platform as the basis of the development and deployment platform. The following JBoss EAP technologies were key in providing a business-focused approach to developing the application:

- JBoss Messaging was used to provide asynchronous communications with the conferencing bridge hardware.
- JBoss Seam was used as the basis of the web application. It was selected for its Web 2.0 features, including integrated AJAX functionality and sophisticated state management capabilities for the wizard-driven customer entry components. Additionally, having a web framework that is supported by a large organization such as Red Hat was also a major consideration contributing to the selection of Seam.
- JBoss jBPM was used to model and manage human driven business processes, notifying the responsible parties within a functional area of the company of task due dates, and measurement of actual performance as compared to expected based on task completion dates.
- JBoss Cache was used to enhance performance when communicating to the dedicated conference bridge hardware.

OUTCOME

The Advent Pulse customer management system provides Advent Conferencing a one-stop application for all facets of its business. This has resulted in faster customer service, real-time conferencing bandwidth management and reduced information input errors as a result of integrating the JBoss EAP application platform with the conferencing bridge.

LOOKING FORWARD

Advent Conferencing is basing its future growth on innovation. CITYTECH’s consulting services are currently engaged in brainstorming sessions with Advent to discuss how emerging technologies such as JBoss Communications Platform (Mobicents Open Source Project) can continue to catapult Advent ahead of its competition by migrating away from the traditional, stove pipe conference bridge architecture to a more integrated solution with JBoss EAP and JBoss Communications Platform yielding next generation type conferencing services.

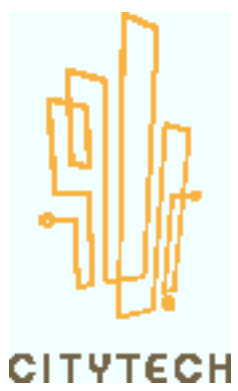
JBoss Enterprise Application Platform

WHAT IS JBOSS EAP?

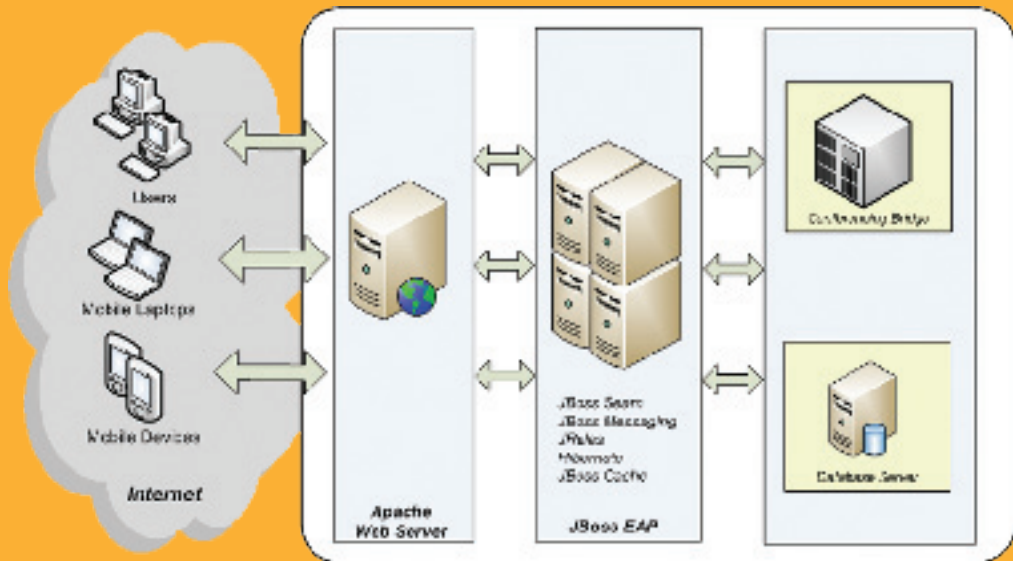
JBoss Enterprise Application Platform (JBoss EAP) is the market-leading, open source enterprise Java platform for developing and deploying innovative and scalable Java applications. Combining a robust, yet flexible, architecture with an open source software license, JBoss EAP has become the most popular middleware system for developers, independent software vendors (ISVs), and enterprises alike.

WHAT IS MOBICENTS?

Mobicents is the open source project in which Red Hat bases the JBoss Communications Platform. Mobicents is a highly scaleable, event-driven application server, and is the first and only Open Source Platform certified for JSLEE compliance, complementing J2EE to enable the creation of next generation communications applications that integrate voice, video, instant messaging, and data.



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JBoss Enterprise Application Platform

CASE STUDY KEY DELIVERABLES

- JBoss AS installation and configuration for high availability
- Application Load Testing and JBoss AS tuning
- Architecture recommendations including:
 - Hibernate best practices
 - JMS best practices recommendation
 - JBoss Cache utilization recommendation

SUMMARY

CITYTECH is an end-to-end solution provider that is not afraid of taking on non-traditional, challenging enterprise applications. This project would have been a run of the mill customer management web application, but the requirement of interfacing in real-time with the audio conferencing bridge using JBoss Messaging provided a challenge our consultants like to take on. This case showcases our ability to design and architect a distributed system which the entire business depends on 24/7.

KEY REFERENCES

JBoss EAP: <http://jboss.com/products/platforms/application>
 JBoss Communications Platform: <http://www.mobicens.org/index.html>

JBoss PLATFORM

JBoss Enterprise Platforms

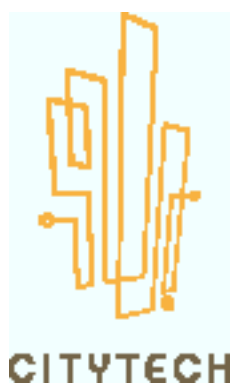
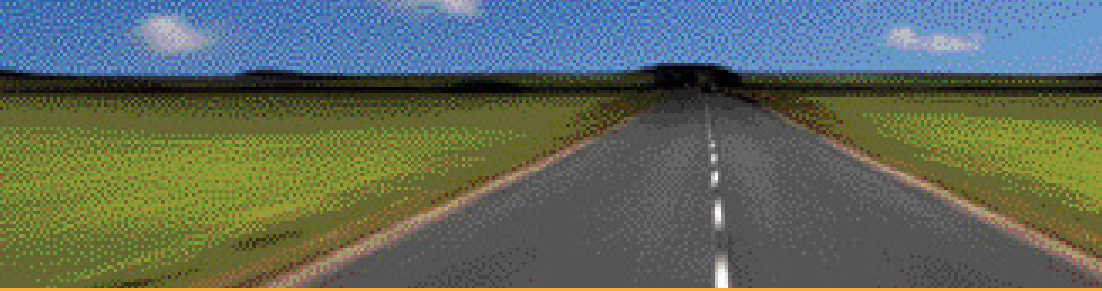
- JBoss Application Platform
- JBoss Portal Platform
- JBoss Data Services Platform
- JBoss SOA Platform
- JBoss Operations Network

JBoss Enterprise Frameworks

- JBoss Hibernate
- JBoss Seam
- JBoss jBPM
- JBoss Rules

JBoss Development Tools

- JBoss Developer Studio



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Let us share our methodologies, practices, and experiences to help you achieve your business goals today. CITYTECH believes in leveraging technology to help you with today's challenges and prepare you for tomorrow's opportunities.

WHO IS CITYTECH?

CITYTECH specializes in the design, development, and execution of highly available and scalable enterprise applications. Our fundamental expertise revolves around the Java Enterprise Edition and Microsoft .NET development platforms. Our intimate knowledge of these top software development platforms gives us a high degree of understanding needed to offer superior technology consulting services to help business entities achieve their business goals.

We believe that comprehensive business requirements and a sound technical architecture are the key attributes of a successful project implementation.

ABOUT US

CITYTECH is located in the heart of downtown Chicago. Our success is attributed to executing projects in an agile, but methodical way using a small team of experienced full-time consultants. We achieve our number one priority, client satisfaction, by mirroring our agenda to that of our client. We establish long-term relationships through partnerships with our clients and vendors in order to consistently provide the most up to date, best practices and best fit services.

WHY CITYTECH?

- We are a certified JBoss advanced system integration partner.
- We believe in leveraging open standards.
- Specialize in architecting and developing highly available and scalable enterprise solutions.
- Agile iterative approach to conquering large application development initiatives.

LEARN MORE

Contact CITYTECH to learn more about how we can deliver a mission critical enterprise application using the JBoss Enterprise Application Platform.

CONTACT US

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