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Java Application Platforms for Lightweight Workloads

Insight into Red Hat's Application Platform Strategy

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Red Hat
September 2009



About Me

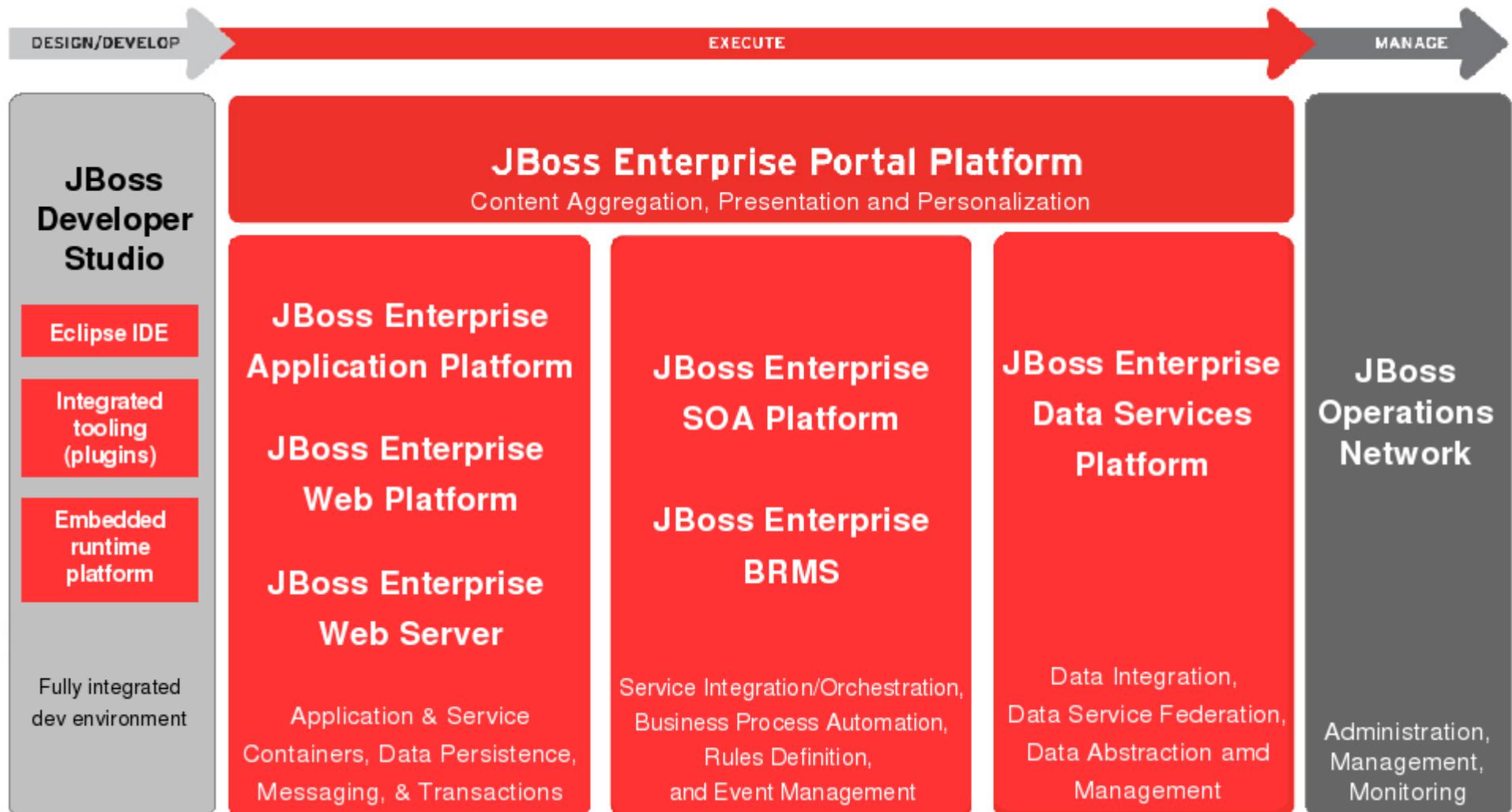
- JBoss Product Line Director
 - Manage the application server business
- Joined Red Hat in 2005
- Former Director of IT at UBS Investment Bank
 - Led one of the first mission critical Java EE deployments
- Former technology consultant with Arthur Andersen
- Born & raised in Chicago!
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Today's Discussion Topics

- Brief overview of JBoss Enterprise Middleware
- Review recent application server market observations
- Describe Red Hat's application platform strategy
- Review JBoss solutions for Java applications

JBoss Enterprise Middleware

Portfolio Overview



JBoss Enterprise Middleware Customers

Example Customers



Booz | Allen | Hamilton



Selected JBoss for superior flexibility, improved performance, benefits of open source, better support & lower TCO

JBoss Enterprise Middleware

Example Partners



...T...Systems.



Rivet:Logic



AMBERPOINT



Redpill.



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JBoss Development Model

Community



Enterprise



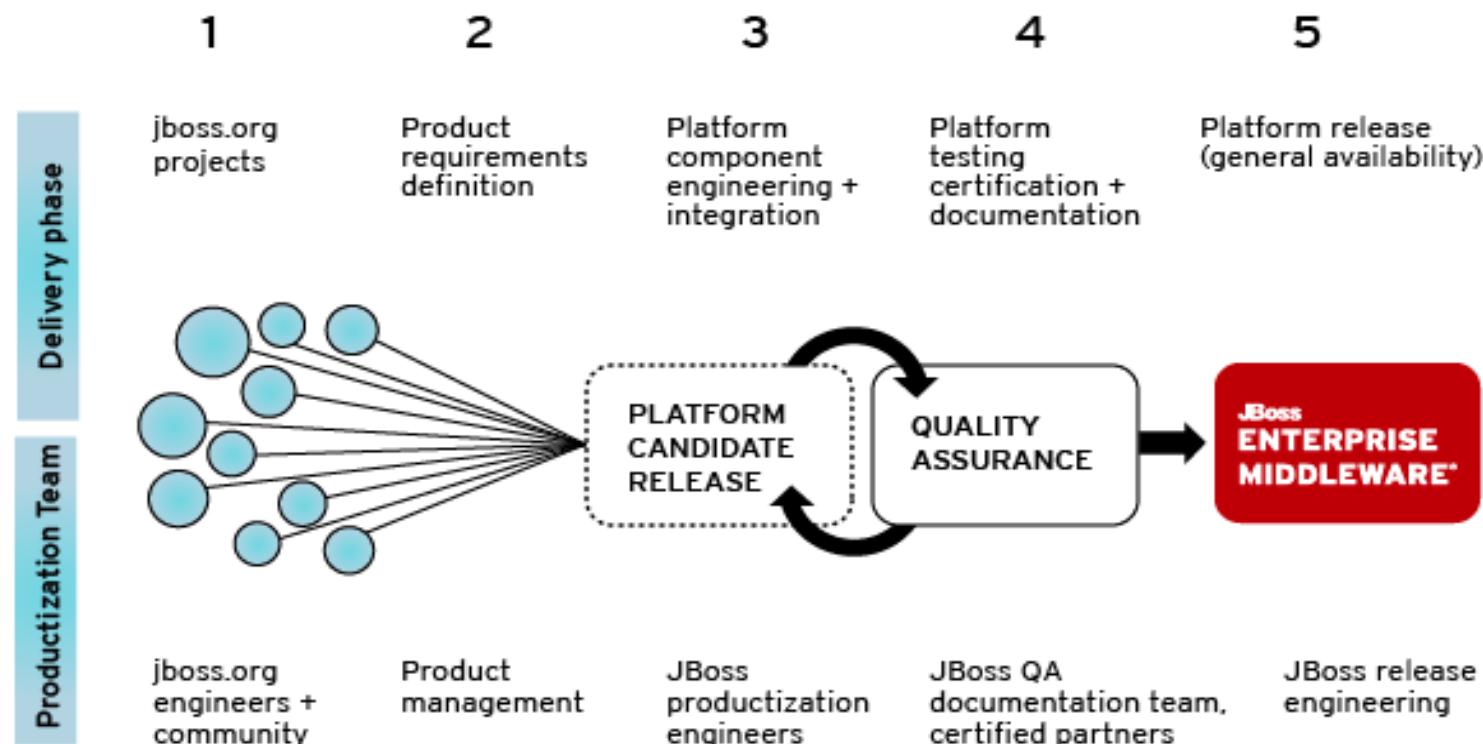
- Focus “release early, release often”
- 50+ projects with different release schedules, dependencies, versions etc.
- 100,000+ registered developers
- Community support via forums, project developers, wiki, issue trackers, etc.

- Use case driven platforms that integrate multiple projects into a single distribution
- Focus on long- term stability, security, supportability, & sustainability
- Longer product support lifecycles that maintain application compatibility
- Up to 24x7 enterprise support for mission critical applications

JBoss Enterprise Middleware

What makes up a certified platform?

Each JBoss Enterprise Middleware platform goes through a 5 phase delivery methodology in its software development lifecycle:



What Are They Saying?

Customers

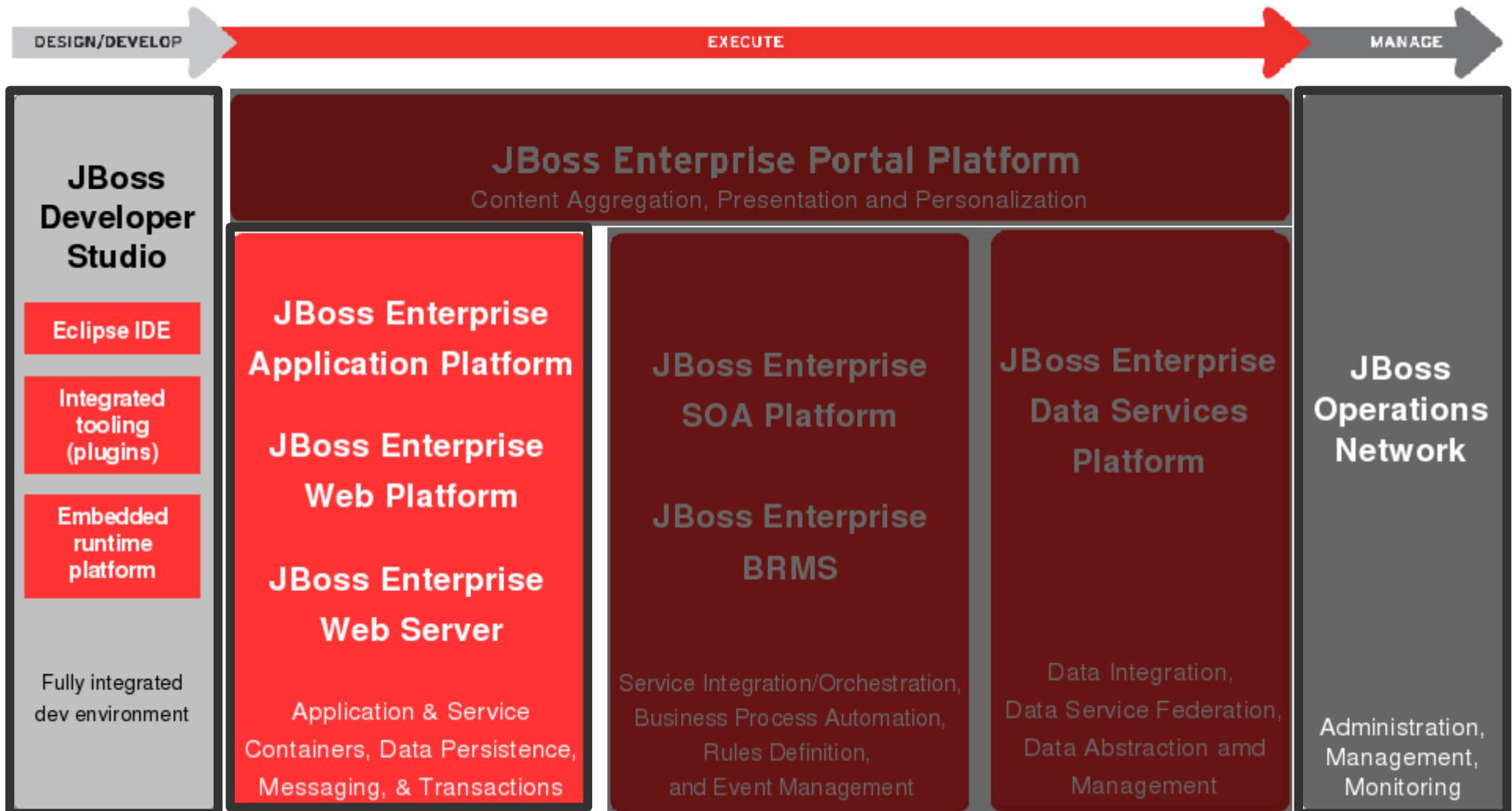
- **Priceline.com (Ron Rose, CIO):** “Red Hat and JBoss have proven themselves to have enterprise-level tools that, when used well, help us attain what all companies want - **great availability, great scale, and at a reduced cost** when compared to proprietary solutions”
- **McKesson (Michael Simpson, CIO):** “McKesson chose to work with JBoss solutions because they were **less expensive and still offered equal, if not better, solutions**... as the company compared BEA to JBoss, it found that JBoss offered **better support** and better turn around time for defects”
- **Continental.com (Mike McDonald, Dir. of Technology):** “We've found a **high-quality, easily scalable** server that can match our business growth, as well as **superior professional service** from the expert developers behind the technology.”

Analysts

- **Gartner:** “Leader” in Application Server & Integration Magic Quadrants
- **Forrester:** highest quality application server (2008 Global Forrester Research/BZ Media Application Platform Quality Online Survey)
- **Burton:** excellent platform for production environments large and small
- **BZ Research:** 32% application server marketshare, above IBM & BEA (Dec. 2008)

JBoss Enterprise Middleware

JBoss Application Platform Solutions



Market Observations

Our customers tell us that...

- Open source adoption is increasing & already part of many deployments
- Java EE is still too complex; other programming models gaining in popularity
- They need to build rich web 2.0 oriented applications easily
- Managing application infrastructure needs to be easier
- Three application workloads emerging:

basic java
web apps

Simple, doesn't require
enterprise services, Servlet
container suffices

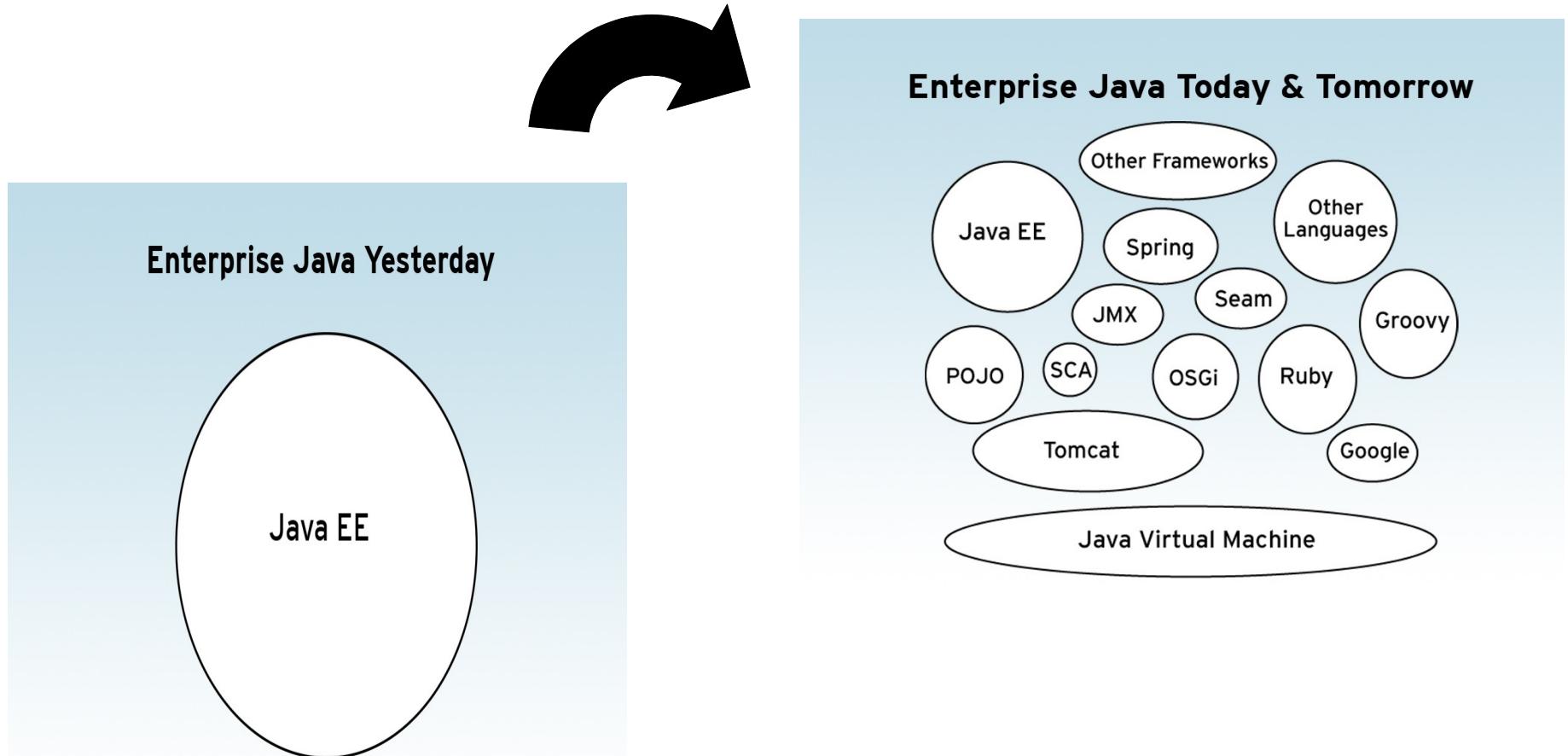
Light & Rich
Java Apps

Require some
enterprise features for
scalability

HIGHLY
TRANSACTIONAL
JAVA
APPLICATIONS

“Heavier”, require most Java
EE features (and sometimes
more), enterprise scale

Evolution of Enterprise Java



Numerous choices, depending on application requirements

Java Application Platform Strategy

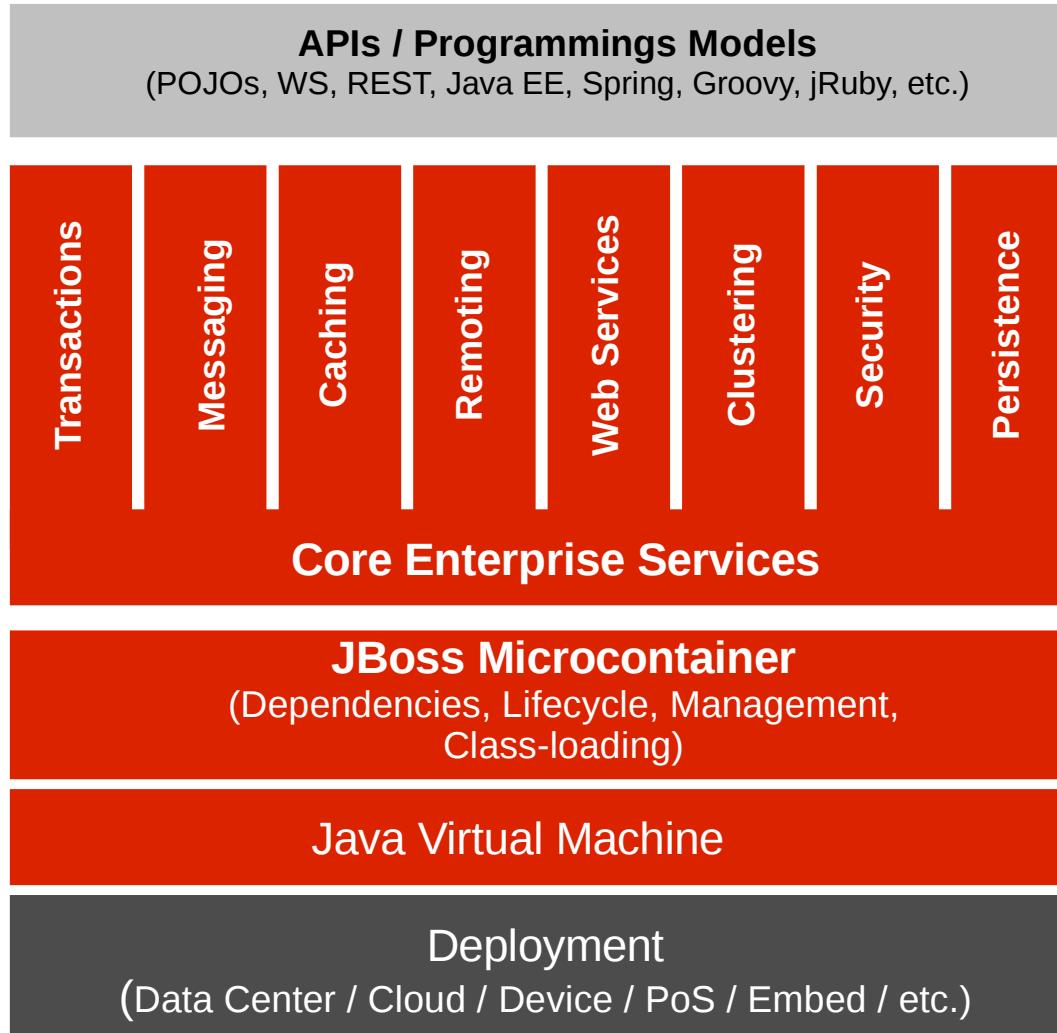
JBoss Open Choice

- **Maintain the ability to support any popular programming model**
 - Java EE, POJOs, OSGi, Spring, Ruby, etc.
- **Provide simple, flexible & standard platforms for common workloads**
 - From light to heavy & everything in between
- **Deliver a core set of enterprise services for manageability**
 - Stable & consistent operational footprint, no matter the programming style
- **Balance developer preference with operational stability**
 - Future proof impact of new development choices
 - Single operations tools across all solutions

Choice without compromise.

JBoss Open Choice Architecture

Flexibility for today and for the future



- Next generation app server architecture
- Extreme configurability
- Minimalistic microcontainer separates cores services for modularity
- Microcontainer supports many component models
 - POJO, JMX, OSGi, etc.
- Common management infrastructure
- Single binary supports many popular deployment styles

Solutions For Java Applications

Flexible solutions for common Java workloads

Design & Develop

Integrated Runtime Platforms

Manage

JBoss Developer Studio
Tooling, Eclipse IDE,
Integrated Runtime

**Simple
Java Web Apps.**

**JBoss Enterprise
Web Server**
Apache Web Server (httpd) &
Apache Tomcat

**Light & Rich
Java Web Applications**

**JBoss Enterprise
Web Platform**

JBoss AS (Web Profile),
Clustering, Cache, REST, Basic
Web Services, Hibernate, Seam,
& JBoss Web Framework Kit

EWP 5.0
Oct.
2009

**Java EE & Transactional
Applications**

**JBoss Enterprise
Application Platform**

JBoss AS (Full Java EE),
Clustering, Cache, Transactions,
Messaging, REST, Full Web Services
stack, Hibernate, Seam, & JBoss
Web Framework Kit

EAP 5.0
Sept.
2009

JBoss Operations Network
Management, Configuration,
Inventory, & optional Monitoring

- Flexible, standards-based solutions targeted for specific Java workloads
- Support for popular open source frameworks, standalone or included with Platforms
 - JBoss Hibernate & Seam
 - JBoss Web Framework Kit (Google Web Toolkit, RichFaces, Spring, Struts, etc.)
- Single management tools across all types of Java applications

Example Workloads

Flexible solutions for common Java workloads

Simple Java Web Apps.

JBoss Enterprise Web Server

Apache Web Server (httpd) & Apache Tomcat

Light & Rich Java Web Applications

JBoss Enterprise Web Platform

JBoss AS (Web Profile), Clustering, Cache, REST, Basic Web Services, Hibernate, Seam, & JBoss Web Framework Kit

Java EE & Transactional Applications

JBoss Enterprise Application Platform

JBoss AS (Full Java EE), Clustering, Cache, Transactions, Messaging, REST, Full Web Services stack, Hibernate, Seam, & JBoss Web Framework Kit

- Corporate websites & customer portals



priceline.com

- Live HD video streaming, inventory look-ups, online testing



- Travel bookings & reservation confirmations, online banking, ecommerce sites

priceline.com



Continental Airlines

AVIS Europe

JBoss WORLD
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JBoss Application Platforms

Feature Comparison

Features	JBoss Enterprise Web Server	JBoss Enterprise Web Platform	JBoss Enterprise Application Platform
Target Workload	Simple Web Java Applications & Websites	Light & Rich Java Applications	Highly Transactional Java Applications
Web Server	Apache Web Server (with httpd connectors)	-	-
Enterprise Services	Load Balancing (mod_connectors)	Included	Included
	Servlet Container	Tomcat	JBoss Web (Embedded Tomcat)
	Java EE	-	Web Profile
	JBoss Microcontainer Architecture	-	Yes
	Clustering, Caching, Failover	-	Yes
	REST	-	Yes
	Basic Web Services (JAX-WS)	-	Yes
	Comprehensive Web Services (WS-*)	-	-
	Messaging	-	-
	Transactions Rollback/Recovery	-	Yes
Frameworks	Hibernate	Add-on	Included
	Seam	Add-on	Included
	JBoss Web Framework Kit	Add-on	Included
Management Tooling		JBoss Operations Network JBoss Developer Studio	

JBoss Application Platform Benefits

- Reduce complexity thru flexible solutions with everything you need
- Targeted platforms for specific workloads; only use features you require
- Make standards work for you & avoid lock-in through open source
- Enterprise management for every application, across the entire lifecycle

Learn From Our Customers

JBoss World Sessions To Consider

- **CME Group: From WebLogic to JBoss Enterprise Application Platform & Tomcat**
 - Thursday @ 10:50a (Track: What's New / Path: Strategize)
- **Covad Communications: Carved Out Costs by Migrating SOA to JBoss Enterprise Middleware**
 - Thursday @ 2:40p (Track: Carving out Costs / Path: Integrate & SOA)
- **Travelers Insurance: Building and Maintaining a Large Shared JBoss Infrastructure**
 - Thursday @ 3:50p (Track: Decoding the code / Path: Operate & Manage)
- **NAVTEQ: Using JBoss Enterprise Middleware in NAVTEQ**
 - Friday @ 11:00a (Track: What's New / Path: Strategize)
- **And more: DST Health Solutions, ETS, Fed Ex, Nokia Siemens, Red Hat IT**

JBoss Solution Overviews

JBoss World Sessions To Consider

- **JBoss Enterprise Portal Platform Customer Case Studies**
 - Wednesday @ 10:50a (Track: Open Source for IT Leaders / Path: Strategize)
- **Enterprise Java Redefined: An Overview of JBoss Enterprise Application Platform 5.0**
 - Thursday @ 8:30a (Track: Open Source for IT Leaders / Path: Strategize)
- **How to Effectively Manage Java Applications (JBoss ON)**
 - Thursday @ 9:40a (Track: Decoding the code / Path: Operate & Manage)
- **Competitive Advantage with Open Source Business Process Automation (SOA Platform, BRMS)**
 - Thursday @ 10:50a (Track: Open Source for IT Leaders / Path: Integrate & SOA)
- **Next Generation Open Source SOA (ESB / SOA Platform)**
 - Thursday @ 3:50p (Track: What's New / Path: Integrate & SOA)

QUESTIONS?

TELL US WHAT YOU THINK:
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