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Java Application Platforms for Lightweight Workloads

Insight into Red Hat's Application Platform Strategy

Aaron Darcy
JBoss Product Line Director
Red Hat
September 2009

About Me

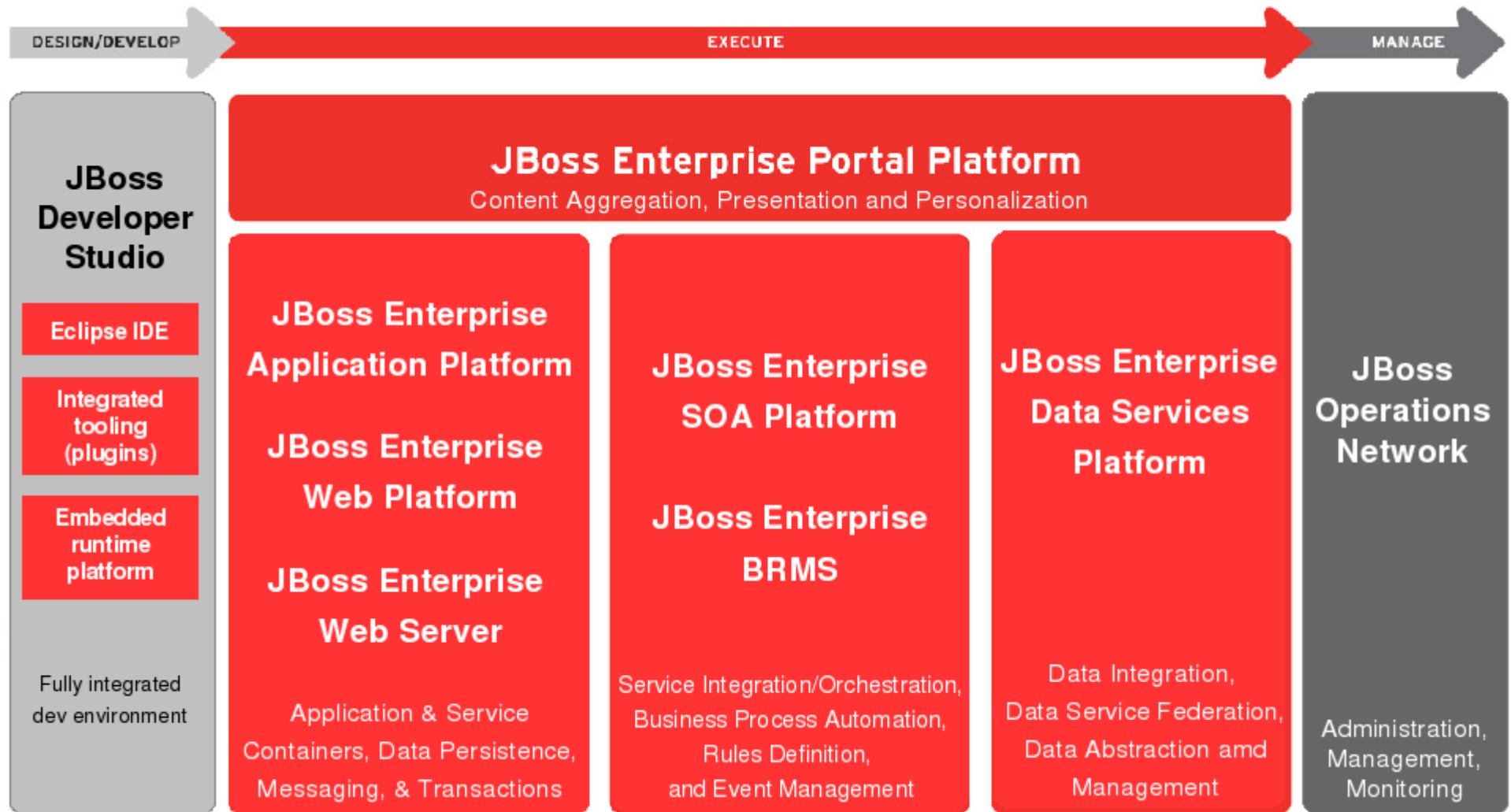
- JBoss Product Line Director
 - Manage the application server business
- Joined Red Hat in 2005
- Former Director of IT at UBS Investment Bank
 - Led one of the first mission critical Java EE deployments
- Former technology consultant with Arthur Andersen
- Born & raised in Chicago!
- Contact information
 - adarcy@redhat.com
 - @darcyaaron

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

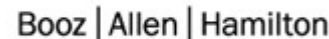
JBoss Enterprise Middleware

Portfolio Overview



JBoss Enterprise Middleware Customers

Example Customers



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

JBoss Enterprise Middleware

Example Partners



JBoss Development Model

Community



Enterprise



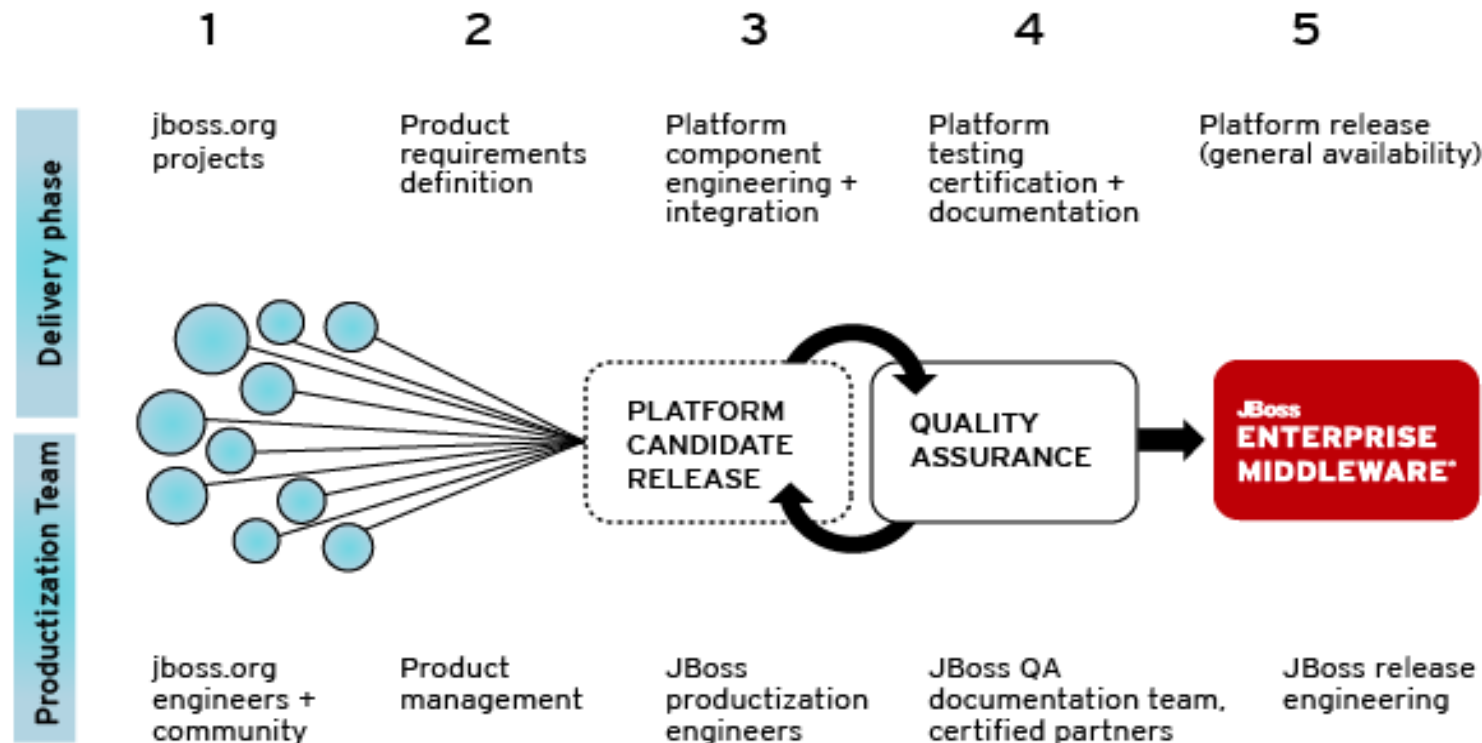
- Focus “release early, release often”
- 50+ projects with different release schedules, dependencies, versions etc.
- 100,000+ registered developers
- Community support via forums, project developers, wiki, issue trackers, etc.

- 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

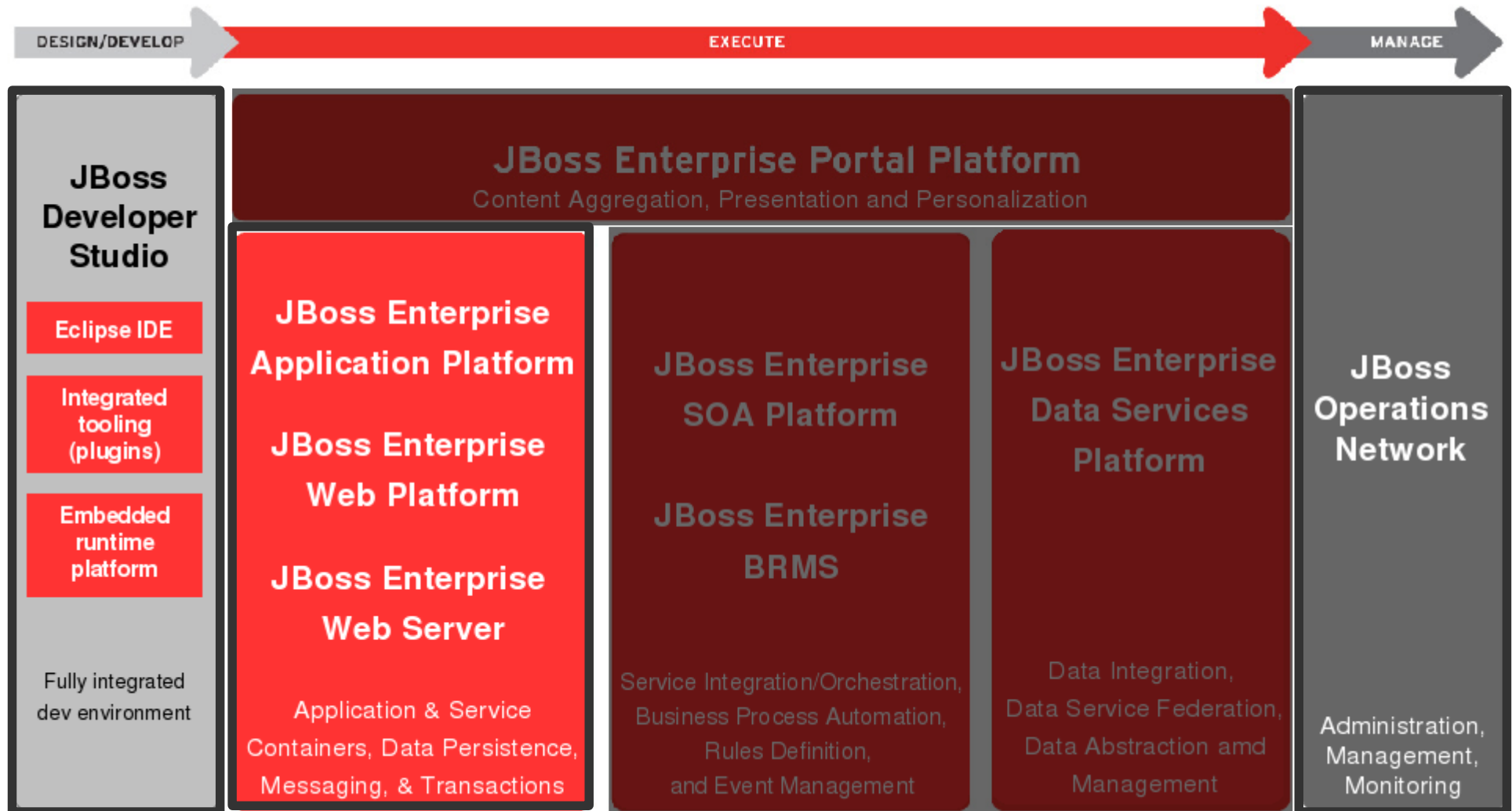
- **Priceline.com (Ron Rose, CIO):** “Red Hat and JBoss have proven themselves to have enterprise-level tools that, when used well, help us attain what all companies want - [great availability, great scale, and at a reduced cost](#) when compared to proprietary solutions”
- **McKesson (Michael Simpson, 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 a 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

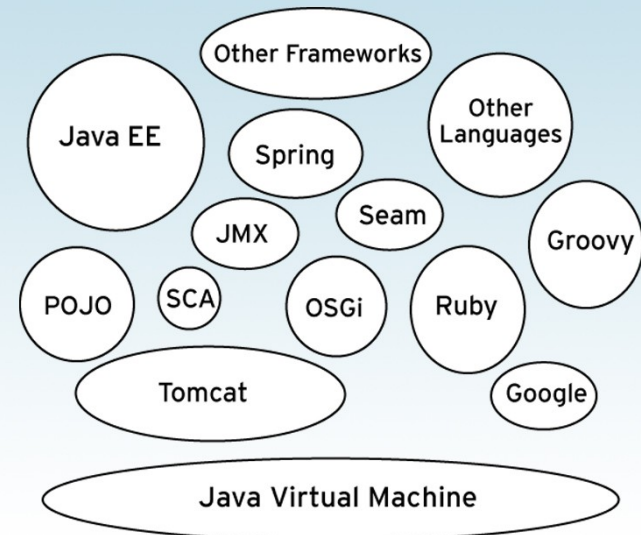
Evolution of Enterprise Java



Enterprise Java Yesterday

Java EE

Enterprise Java Today & Tomorrow



Numerous choices, depending on application requirements

Java Application Platform Strategy

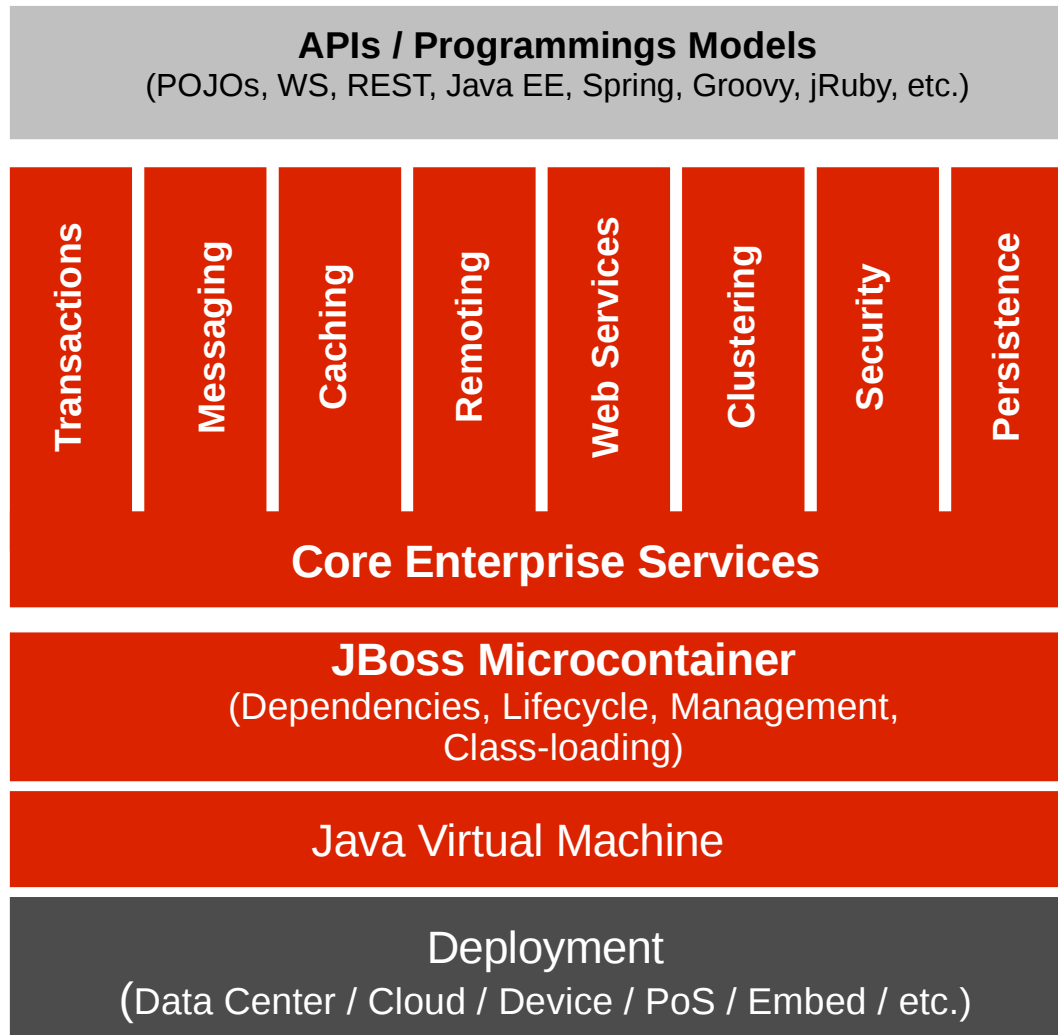
JBoss Open Choice

- **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

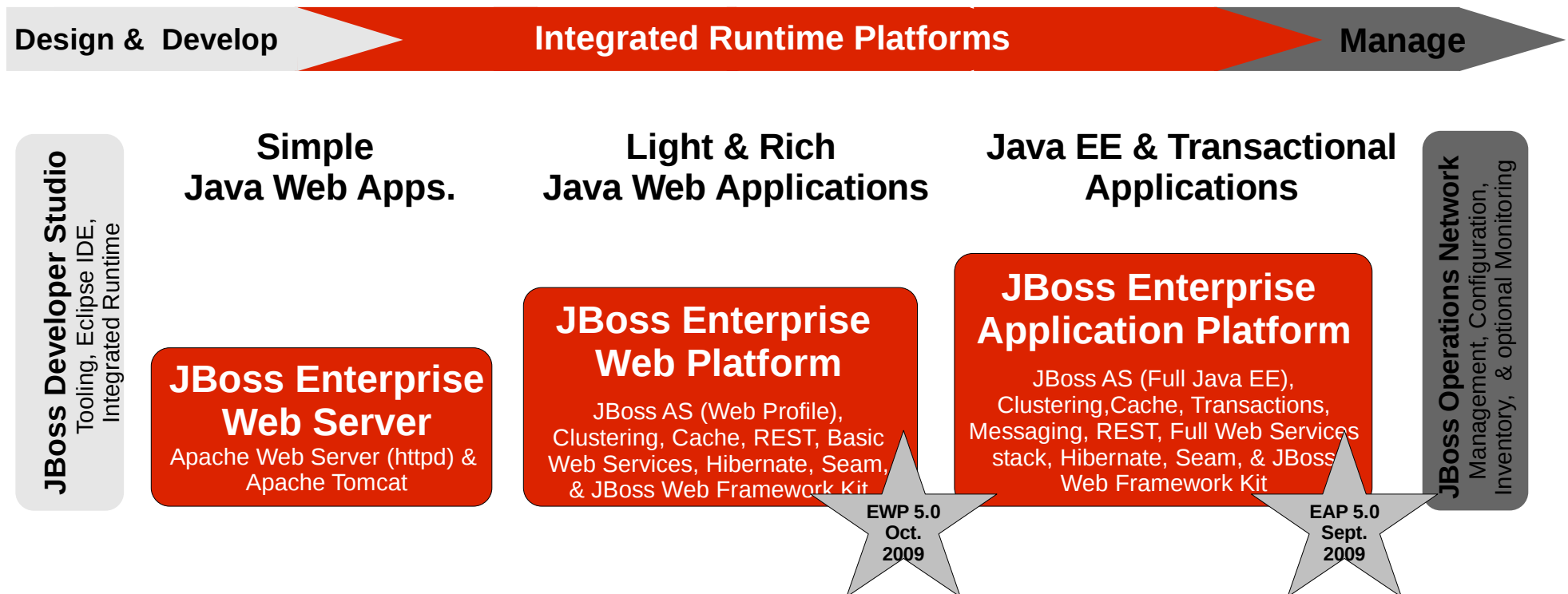
Flexibility for today and for the future



- Next generation app server architecture
- Extreme configurability
- Minimalistic microcontainer separates core 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



- 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

Potential
Examples

- Corporate websites & customer portals



priceline.com

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



**BIG
LOTS!**

KAPLAN
TEST PREP AND
ADMISSIONS

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

priceline.com

Continental
Airlines




AVIS Europe

**JBoss
WORLD**
CHICAGO 2009

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	Included
	Servlet Container	Tomcat	JBoss Web (Embedded Tomcat)	JBoss Web (Embedded Tomcat)
	Java EE	-	Web Profile	Full Java EE
	JBoss Microcontainer Architecture	-	Yes	Yes
	Clustering, Caching, Failover	-	Yes	Yes
	REST	-	Yes	Yes
	Basic Web Services (JAX-WS)	-	Yes	Yes
	Comprehensive Web Services (WS-*)	-	-	Yes
	Messaging	-	-	Yes
	Transactions Rollback/Recovery	-	-	Yes
Frameworks	Hibernate	Add-on	Included	Included
	Seam	Add-on	Included	Included
	JBoss Web Framework Kit	Add-on	Included	Included
Management Tooling				

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 Seimens, 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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