



redhat.



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# Red Hat & JBoss @ ČVUT FIT

## JBoss Community x Enterprise

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# What is JBoss?



# What is JBoss Application Server?



- Open Source Java EE server.
- Founded by Marc Fleury in 1999.
- The name came from Enterprise Java Beans (EJB) -> EJBoss.



Runtime for back-end applications.



# Programmers can concentrate on customer logic.



# Transactions





# Messaging





Load balancing



# Persistence



# Clustering



# Caching



# Java EE standards – to sum up

- Web Server (HTTP, HTTPS)
- Web container (JSP, JSF, Servlets, ...)
- Enterprise Java Beans (EJB)
- Persistence API (JPA)
- Transactions API (JTA)
- Web Services (JAX-WS)
- Messaging (JMS)
- Management (JMX)
- Security (JAAS)



# JBoss Community

Let's talk about community projects first



*closed source is lame.*





**Free your code.**







# byteman







# HornetQ

Putting the buzz in messaging





# Netty



Designed by the iBoss Community Visual Design team... for everyone.



Infinispan

Devoxx 2010

open source data grids

...to the highest reaches  
of the cloud

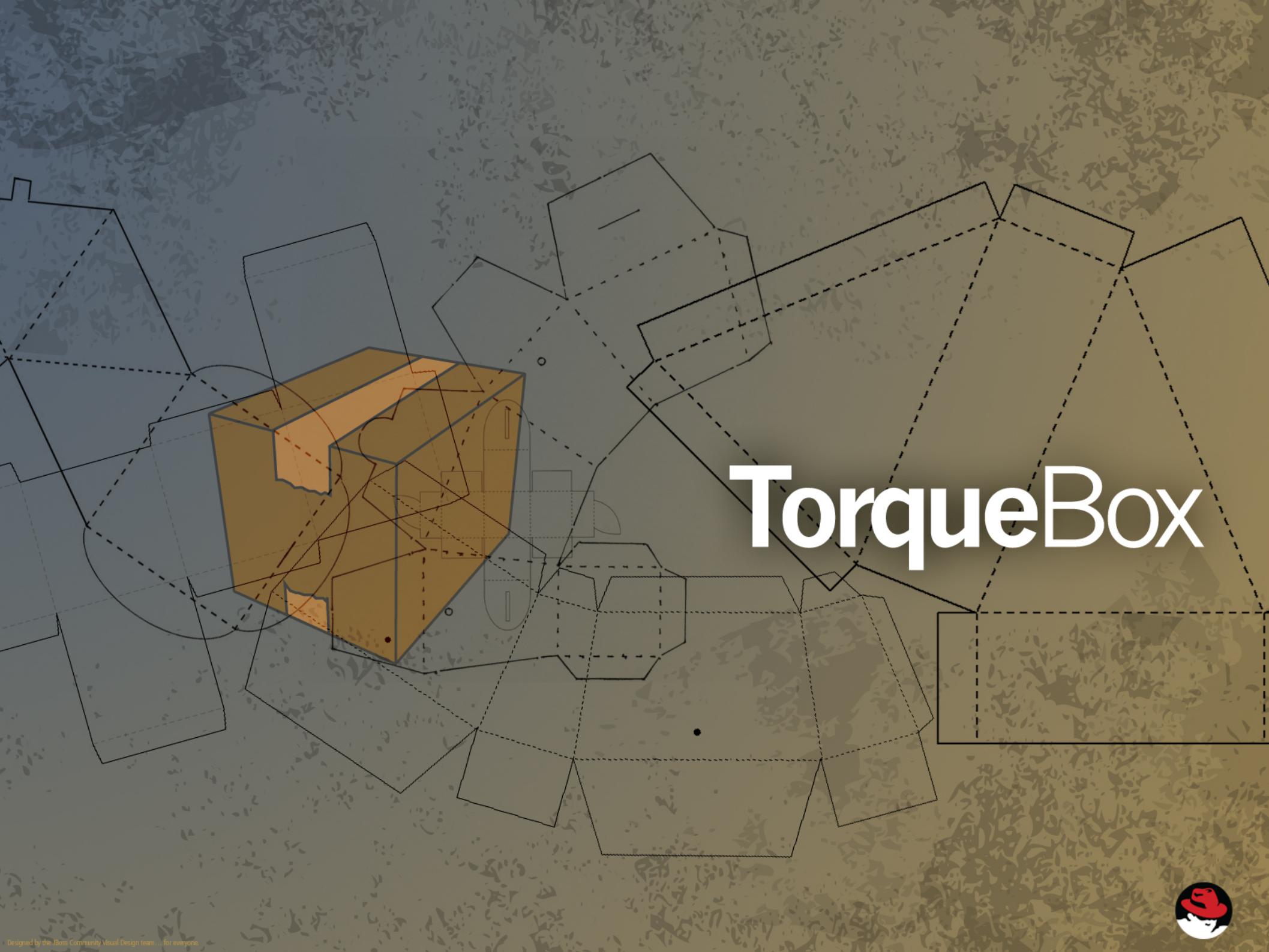




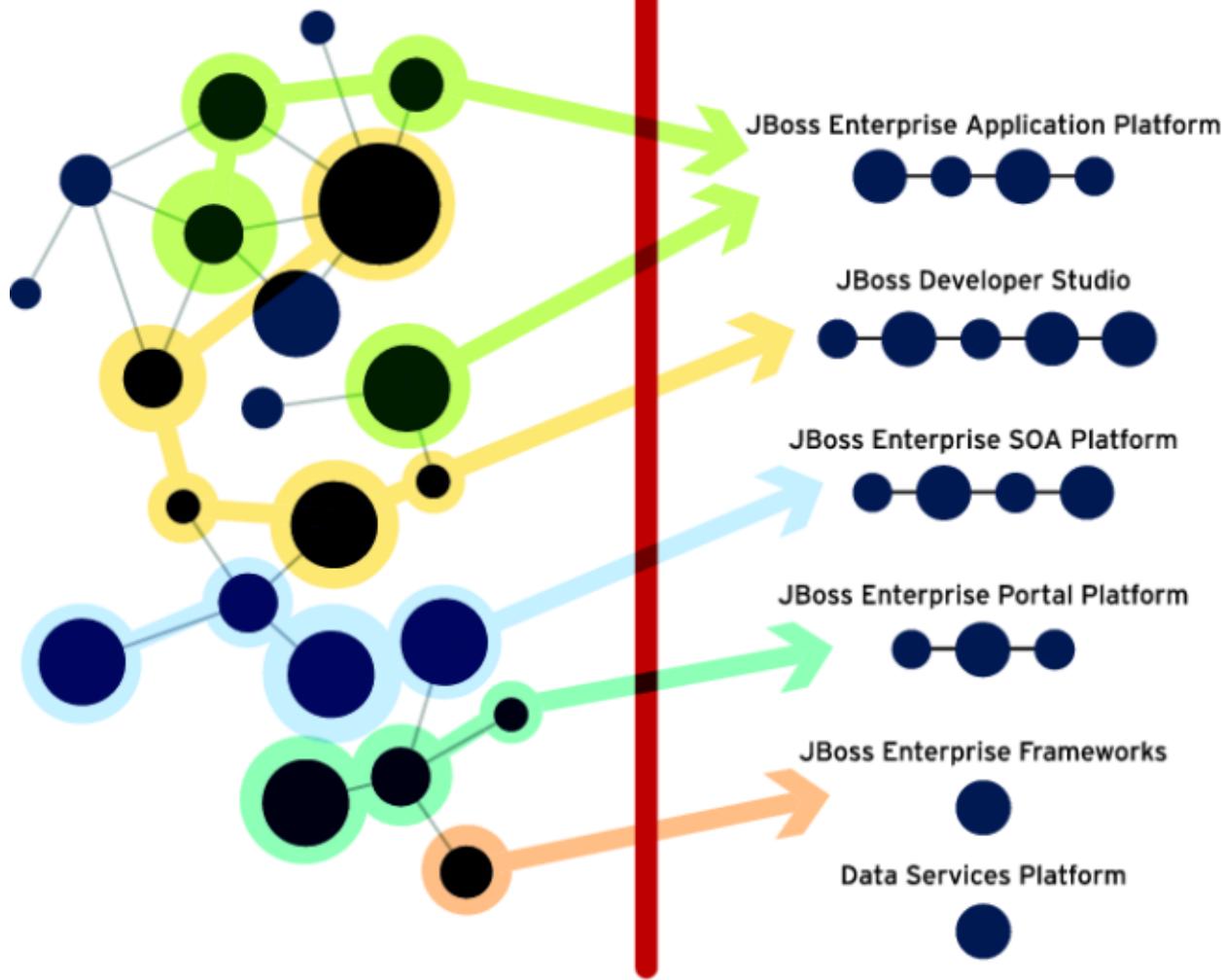
Distributed peace of mind



# TorqueBox



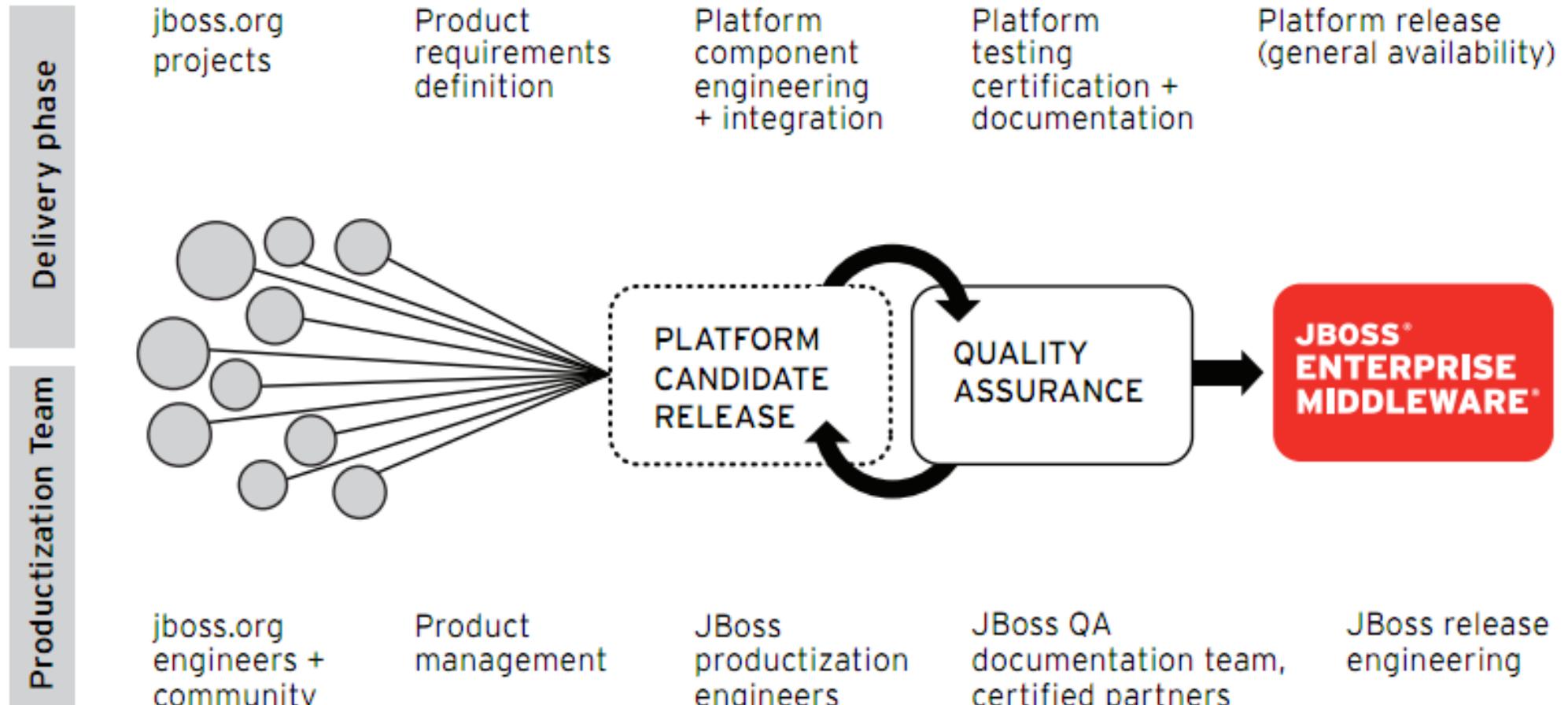
jboss  
.org



# Packaging and component integration is the key



# What is productization?



# Why Productize?

- Meet Software License Requirements
- Provide Consistent Branding Message
- Improve User Experience
- Deliver Secure Applications
- Enable Effective Product Support
- Improve Product Packaging/Installation/Maintenance





# Productization: Fedora x JBoss.org projects

# Fedora is productized already

- 1) Legal
- 2) Branding
- 3) Usability
- 4) Security
- 5) Support
- 6) Packaging

# The JBoss Community is not productized

- Focused on R&D
- Legal requirements are not always checked
- Over 70 JBoss.org projects
  - Different brands
  - Many different communities

# JBoss Community Builds

- Different Project Sites (JBoss.org, github, etc)
- Different SCMs (svn, git, etc)
- Different Build Tools (Ant, Maven, Gradle)
- Thirdparty Projects (Apache, Codehaus, Sun/Oracle)

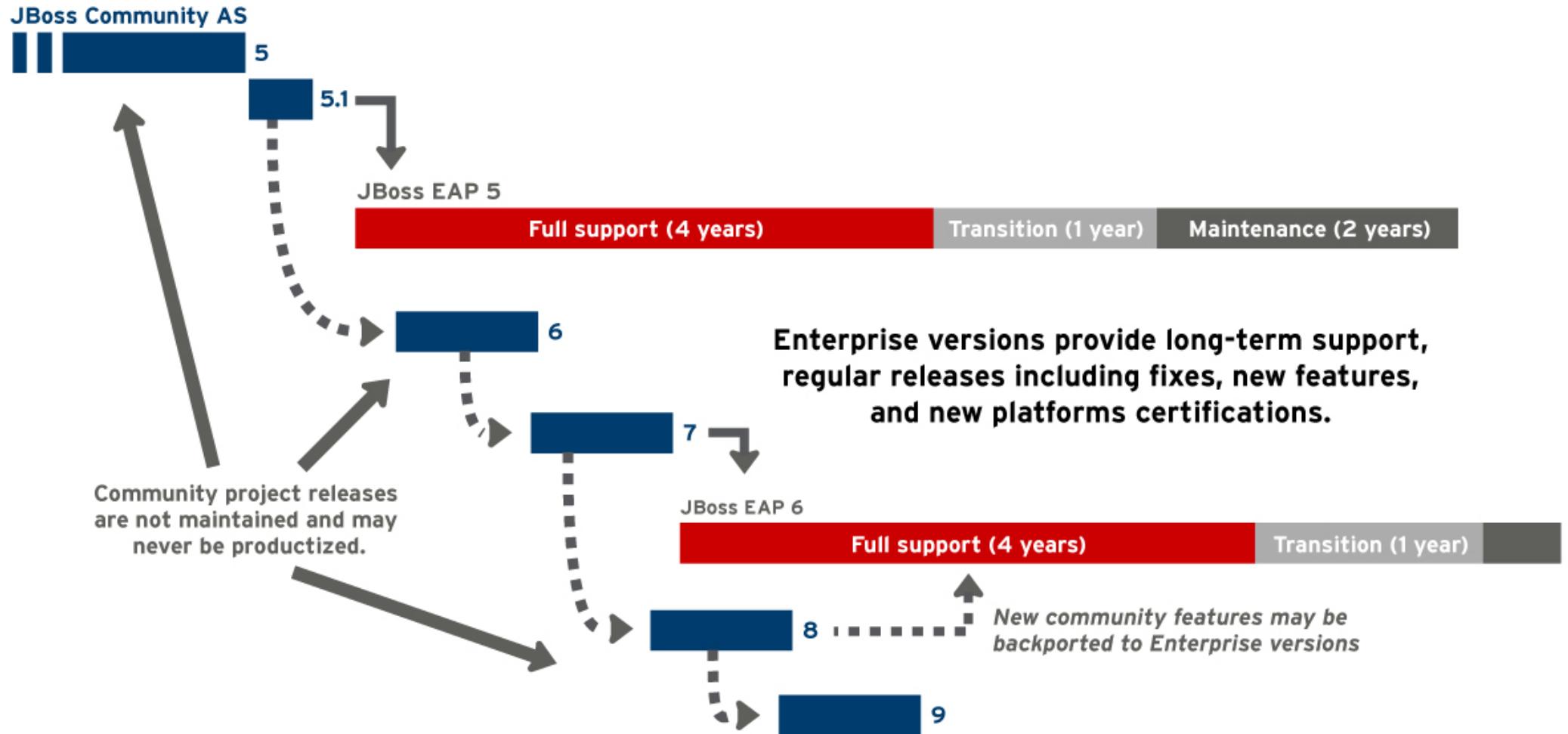
# Fedora vs. JBoss Community

- Fedora takes community projects and packages them into a coherent system
- The JBoss Community focuses on delivering a variety of (very) loosely related projects





# Productizing JBoss EAP



# JBoss EAP Productization

- 1) Legal
- 2) Branding
- 3) Usability
- 4) Security
- 5) Support
- 6) Packaging



# Challenges

- Java/Maven vs. RPM
- Rebuilding Takes Time
  - Locate the source
  - Understand the build
  - Find the dependencies
  - Build
  - Add Bugs! :)
- Delay between upstream changes and product release



# Lots of Dependencies

- JBoss AS has ~200 direct dependencies
- All build and test dependencies for all components?
  - Greater than 1000







# Quick summary

Community projects vs. Enterprise products

What is productization?

Why is it important?

# References

- Dimitris Andreadis – JBoss.org x Jboss.com  
<http://www.slideshare.net/dandreadis/jbossorgjbosscom>
- Backbone image CC
- Craftman image CC
- ATM image CC
- Message image CC
- Dogs images CC
- Clock image CC
- Grapes image CC



# Additional Creative Commons images

- Geocaching CC image
- JBoss.org design & slide decks





Thanks for listening!

# Come work for us!

- The job is a combination of development, packaging and release engineering
- You should have overview of Java ecosystem
- You should know maven and ant
- Experience with releases and packaging is welcome



# What is productization?

- We take jboss.org community projects and other opensource libraries and package them together
- We also provide fixes for the product branch and keep it in sync with upstream
- If the upstream community is inactive, we take charge
- We build every 3<sup>rd</sup> party dependency from sources

