

**10 YEARS** and counting SAN FRANCISCO | APRIL 14-17, 2014

#### **JBoss Fuse in the Real World**

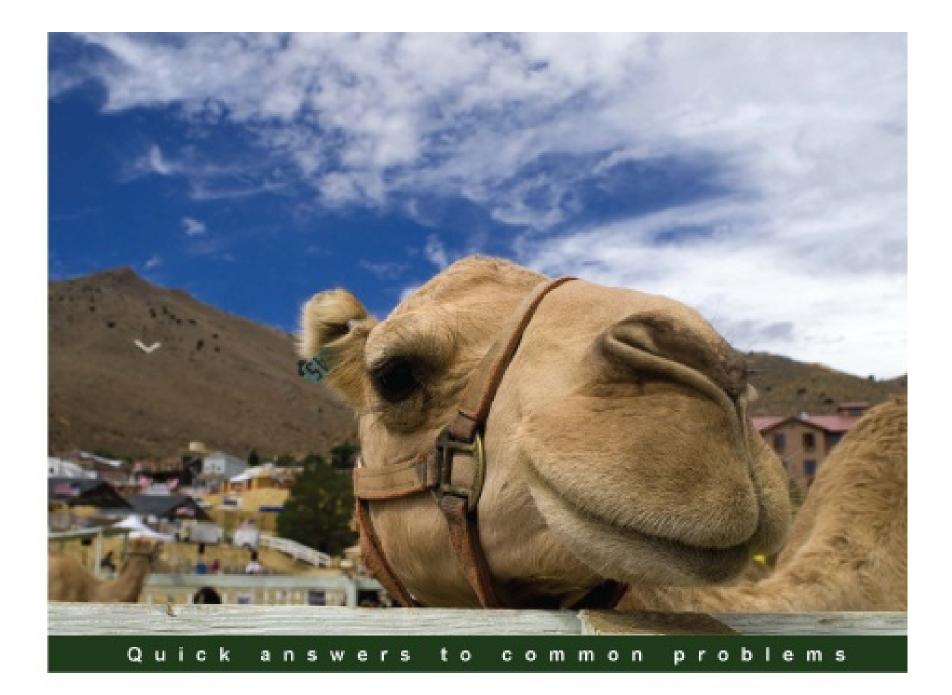
#### **Scott Cranton** Manager, Solution Architects Red Hat





### @scottcranton

- 20+ years in Middleware software coding and sales
- Apache Camel Developer's Cookbook – Dec 2013
- FuseSource World Wide Solution Architect manager; joined FuseSource in 2009
- 5+ years helping companies use Fuse



#### **Apache Camel Developer's Cookbook**

Solve common integration tasks with over 100 easily accessible Apache Camel recipes

Scott Cranton

Jakub Korab





### Talk Goals

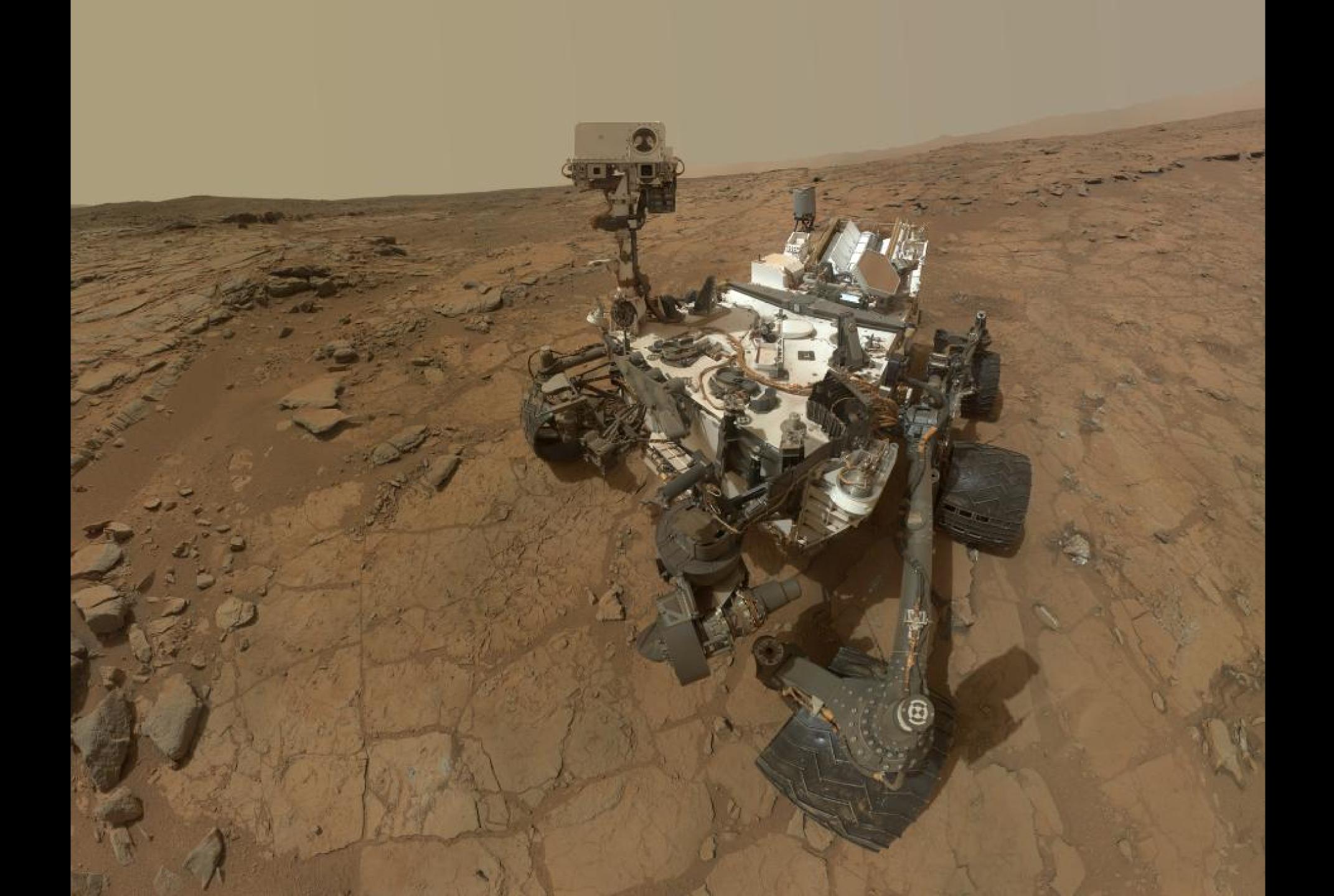
Majority of time about usage in (name dropping when I can):

- Government
- Travel
- •Energy
- Finance
- Retail

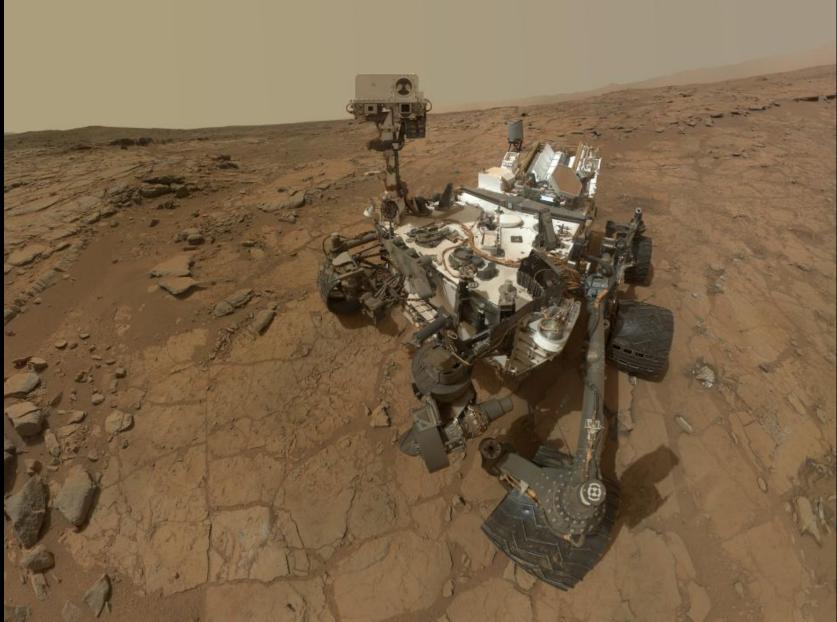
Very brief overview of what is JBoss Fuse

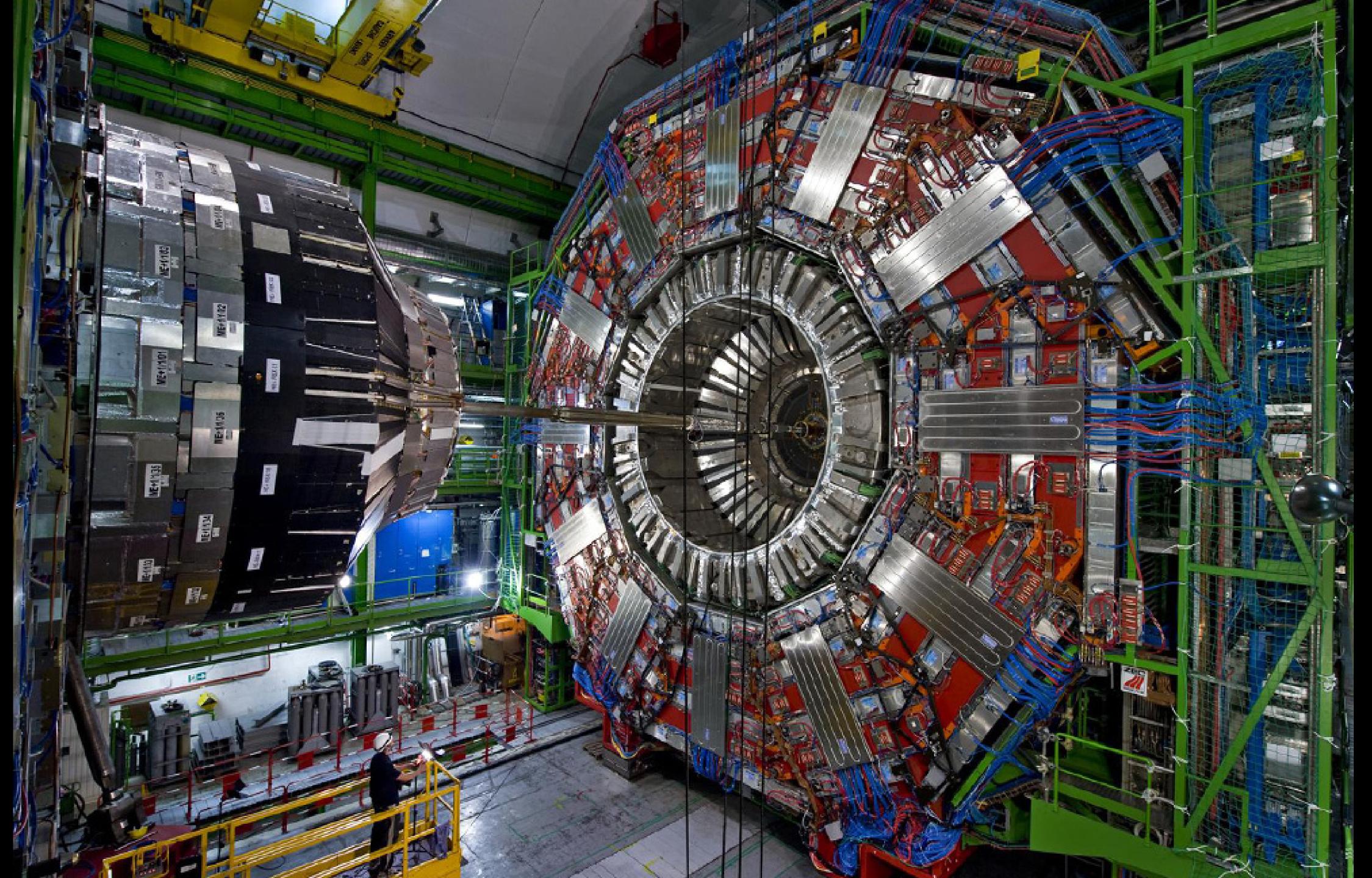






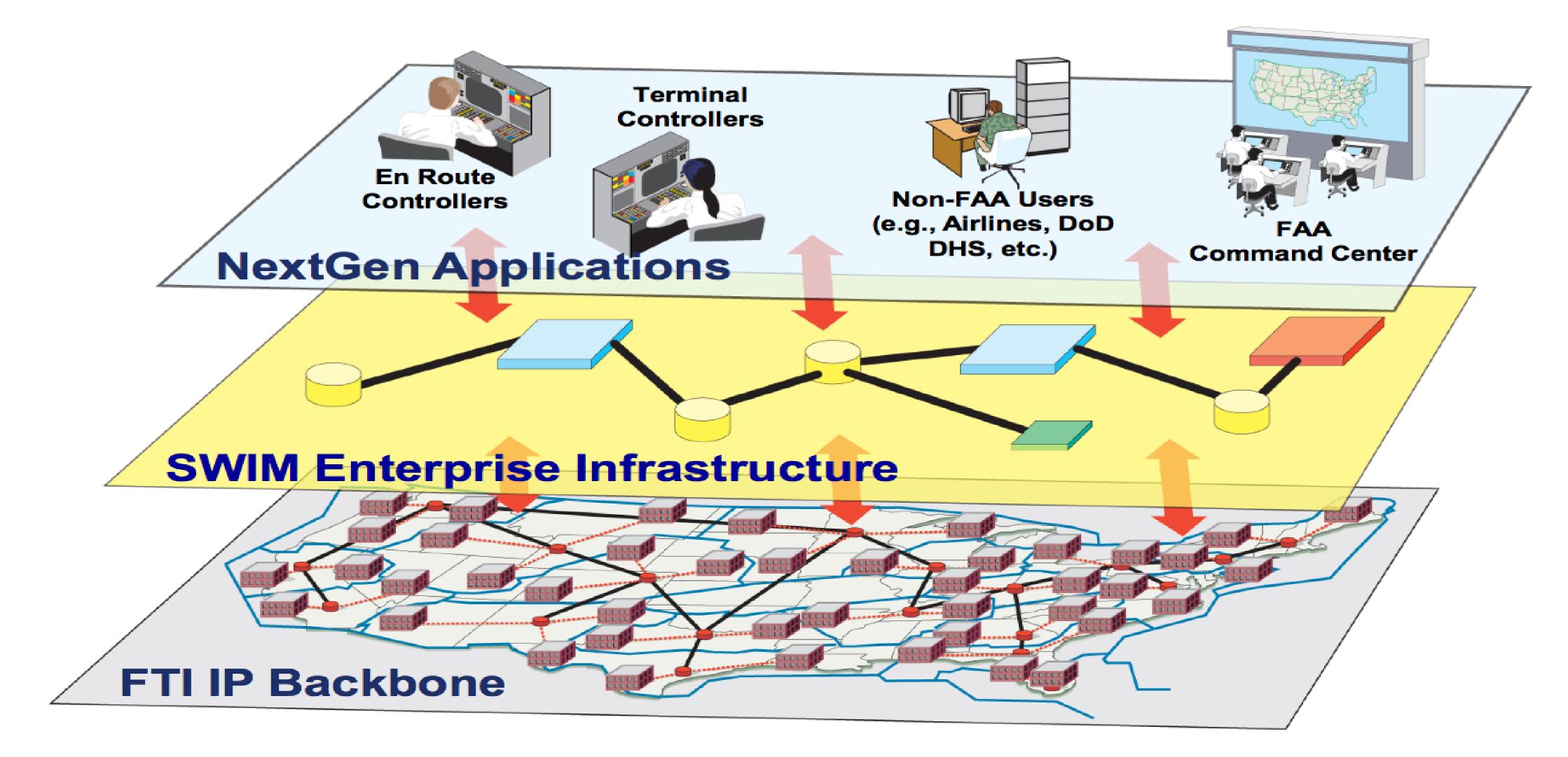








#### State of the System



CamelOne May 24, 2011



Federal Aviation Administration





Transactions every second

#### 100,000+Computers

accessing Sabre travel content globally

Leading provider of travel technology products and services on the planet

#### **180 million+**

Transactions every day via Web services

**#redhat #rhsummit** 

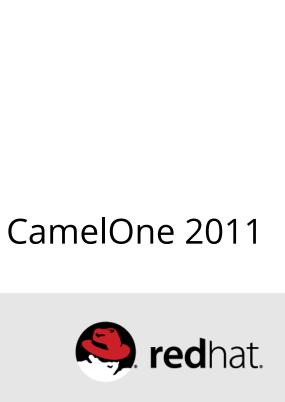






a week

It's Always Peak Hour Somewhere In The World





Source: www.readwriteweb.com

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5 billion API calls / day (April 2010)

5 billion API calls / day (October 2009)

3 billion API calls / day, 75% of all traffic (April 2010) 750 million API calls / day

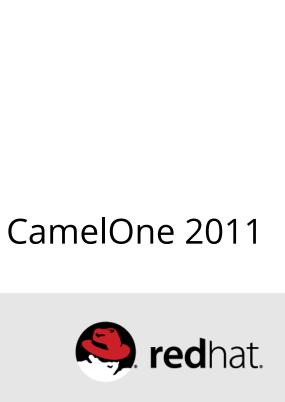
**267 million API calls / day** (Q3 2009)

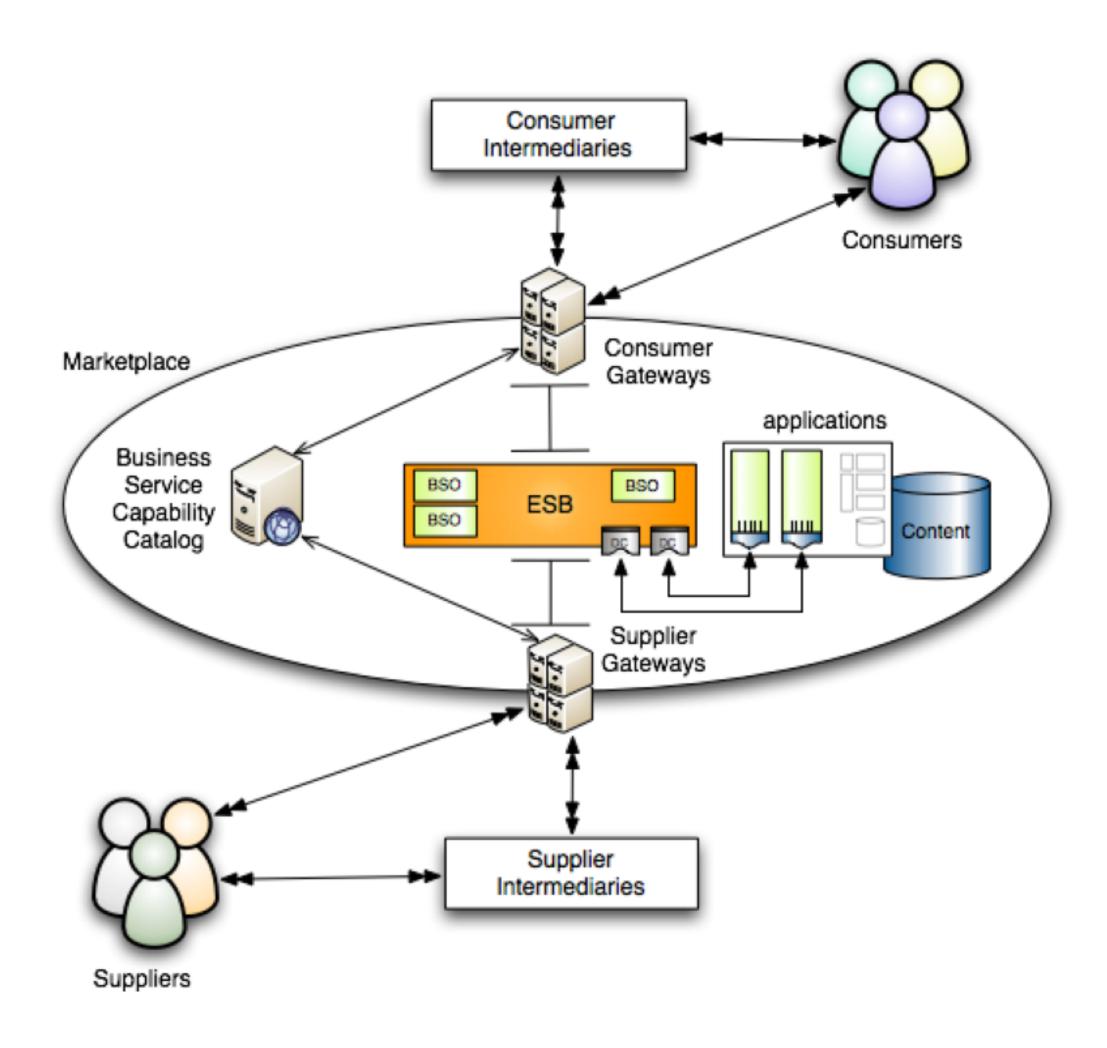
**100 million API calls / day** (March 2009)

37 million API – delivered stories / day (March 2010)

Over 50% of all traffic via API (March 2008)

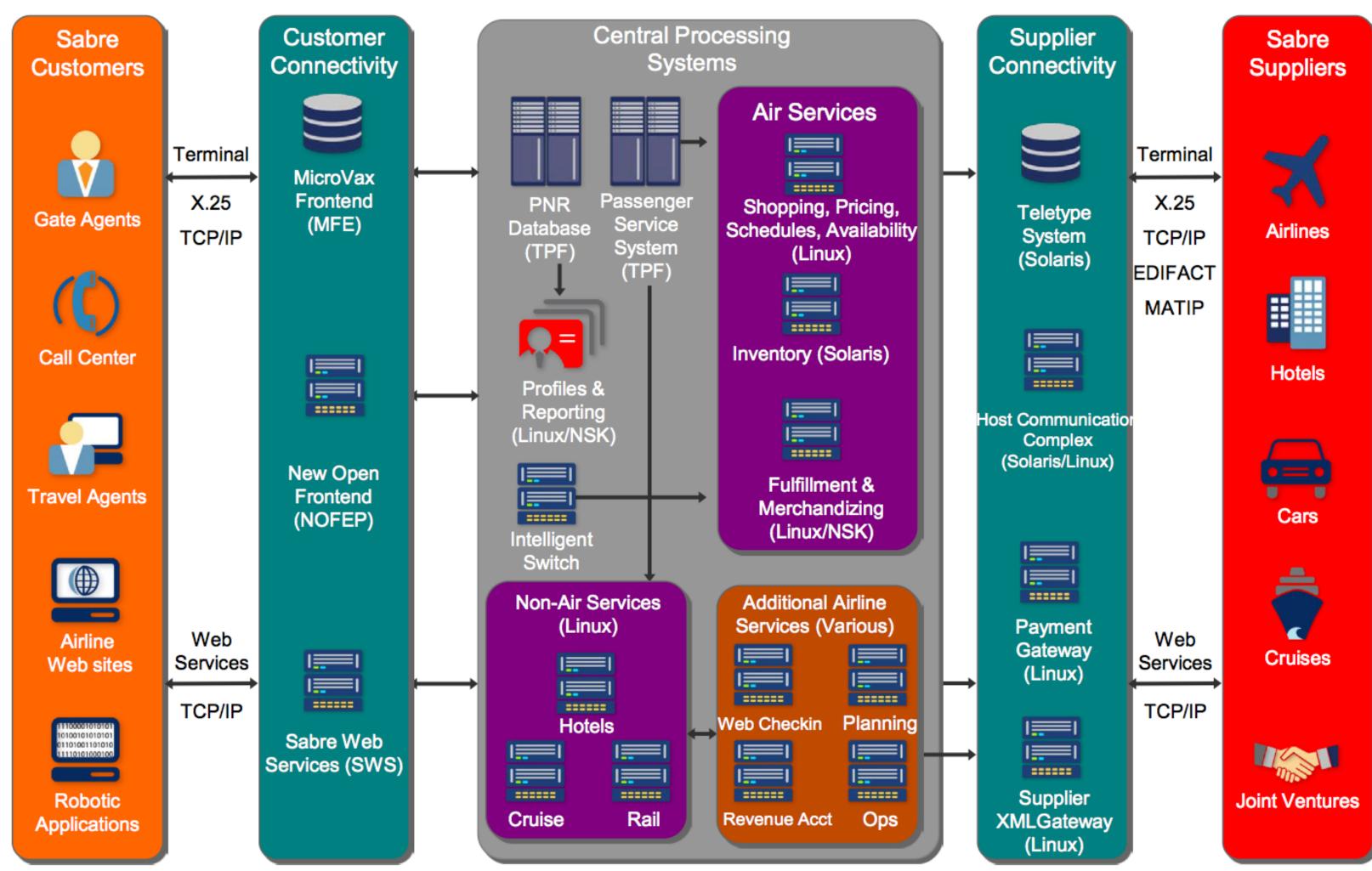
Over 100 billion objects stored in S3 (March 2010)



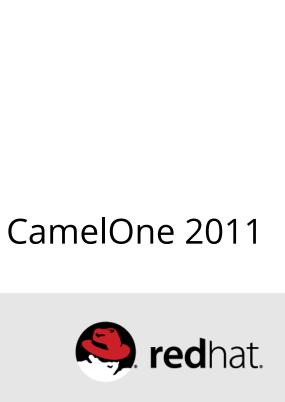


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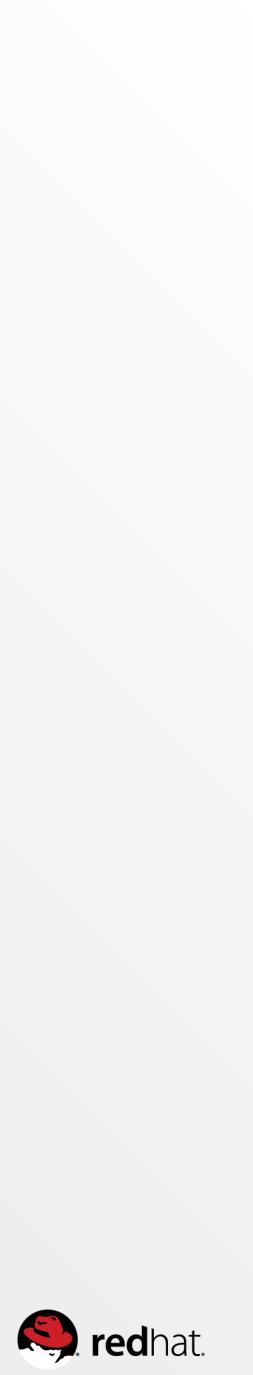


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#### What is JBoss Fuse?







## **Red Hat JBoss Fuse**

#### **RED HAT JBOSS FUSE**

#### Web services framewor Development Web services standards, and tooling SOAP, XML/HTTP, RESTful HTTP Apache CXF Develop, test, debug, refine, deploy Relia JMS/STOMP/NMS/MQTT, publishi Apac JBoss Developer Studio including JBoss Fuse IDE Life cycle management, reso security, and provisioning

#### **RED HAT ENTERPRISE LINUX**

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rk	<b>Integration framework</b> Transformation, mediation, enterprise integration patterns	Management and monitoring
	Apache Camel	System and web services metrics, automated
<b>ble messaging</b> hing-subscribe/point-2-point, store and forward		discovery, container status, automatic updates
che ActiveMQ		JBoss Operations Network +
<b>Container</b> ource management, dynamic deployment,		JBoss Fabric Management Console

Apache Karaf + Fuse Fabric

Windows, UNIX, and other Linux

JB0012



# **Red Hat JBoss Integration Portfolio**

**Red Hat JBoss Fuse Service Works** adds Design and Runtime Governance

**Red Hat JBoss Fuse** adds Protocol Mediation and Routing

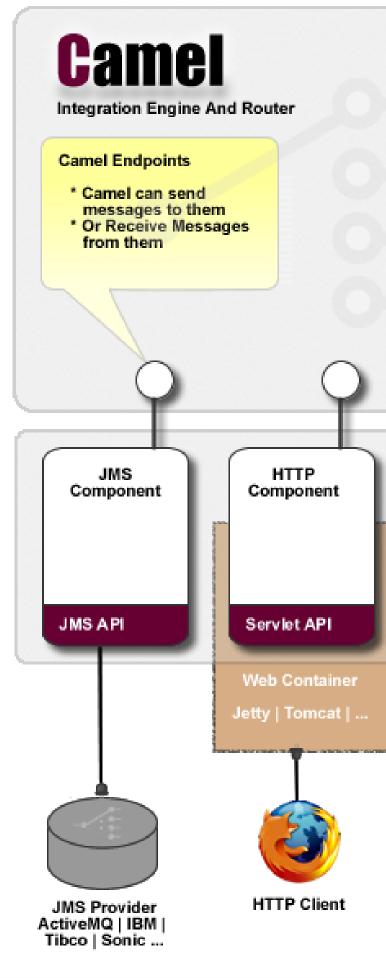
**Red Hat JBoss A-MQ** Reliable Messaging

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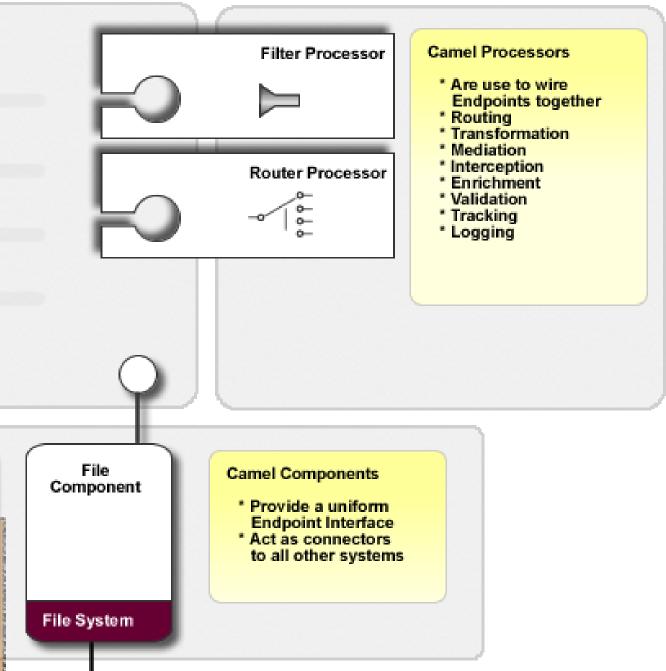




## Apache Camel



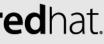
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Local File System





# Apache Camel Example

Pickup files from FTP server foohost in directory bar, transform using XSLT file changeme.xslt, and put on JMS queue cheese





# **Apache Camel Example**

Pickup files from FTP server foohost in directory bar, transform using XSLT file changeme.xslt, and put on JMS queue cheese

from("ftp://foohost/bar") .to("xslt:changeme.xslt") .to("jms:queue:cheese");



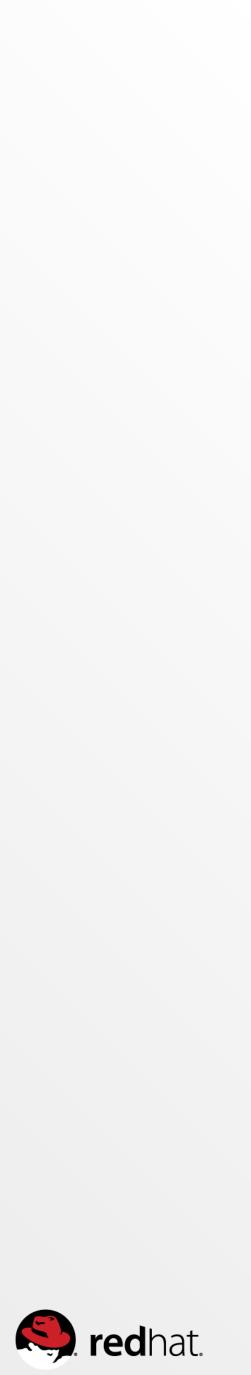




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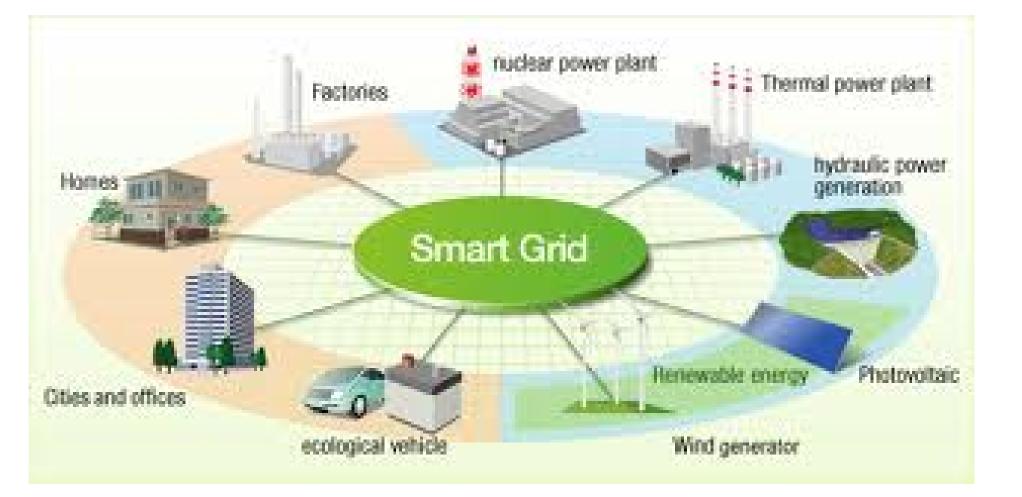
## **Back to our Examples**





#### What's Common with these Applications?

#### **Smart Grid**

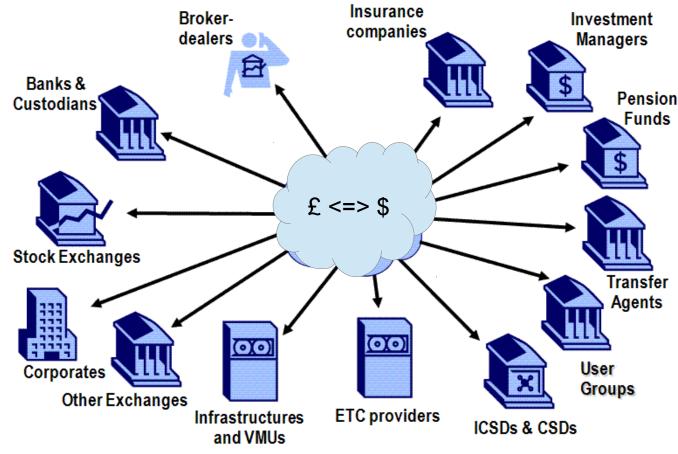




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#### Mobile API









### SpecSavers UK eyewear chain – Specsavers

- because that was what they could afford
- •Was relying on batch delivery of inventory and cash register data, Out-of-date data was limiting the efficiency of operations

#### Challenges:

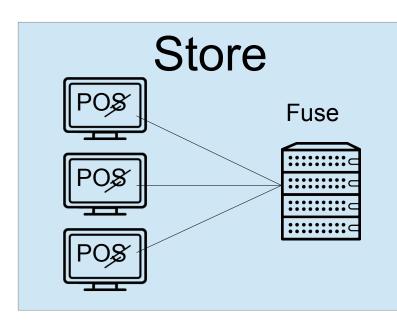
- •Over 2,000+ retail outlets, and needed a solution that would distribute and scale
- Outlets are not equipped with large servers or IT staff

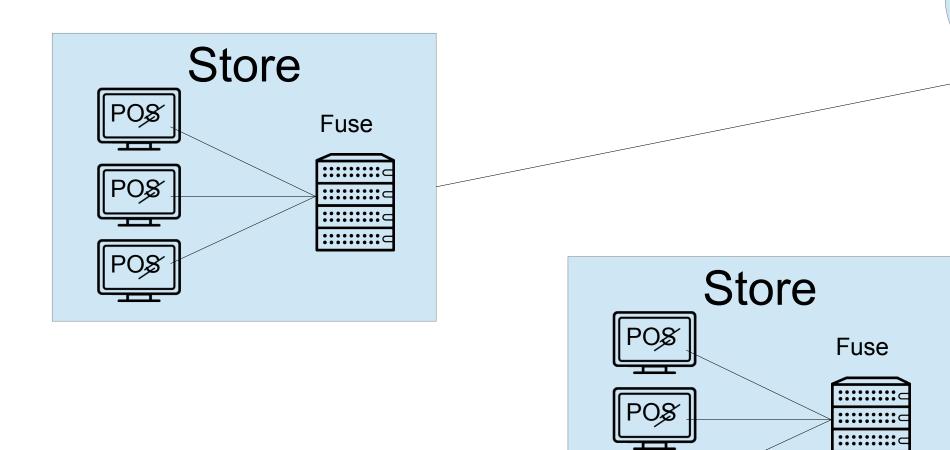






### **Retail Architecture**

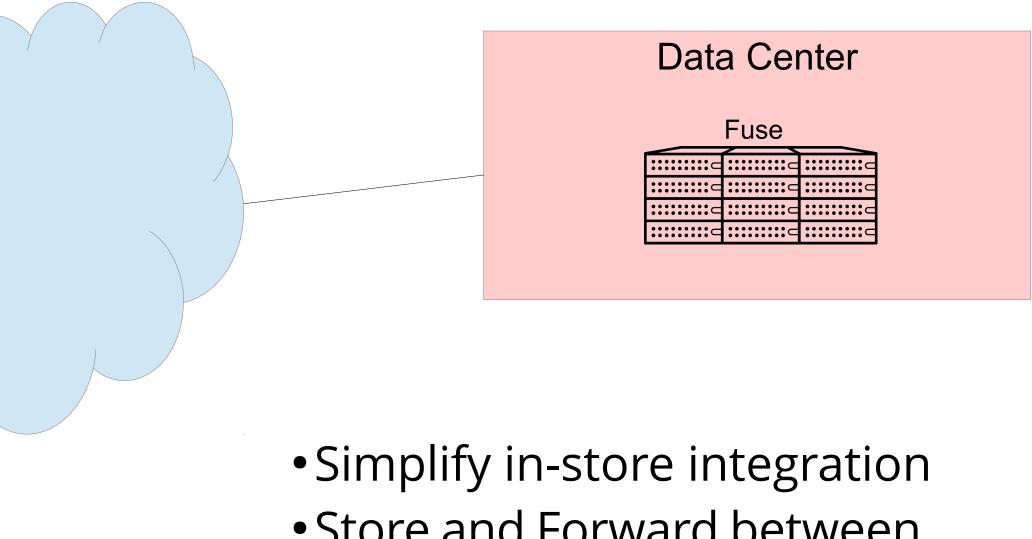




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• Store and Forward between store and data center handled by Fuse

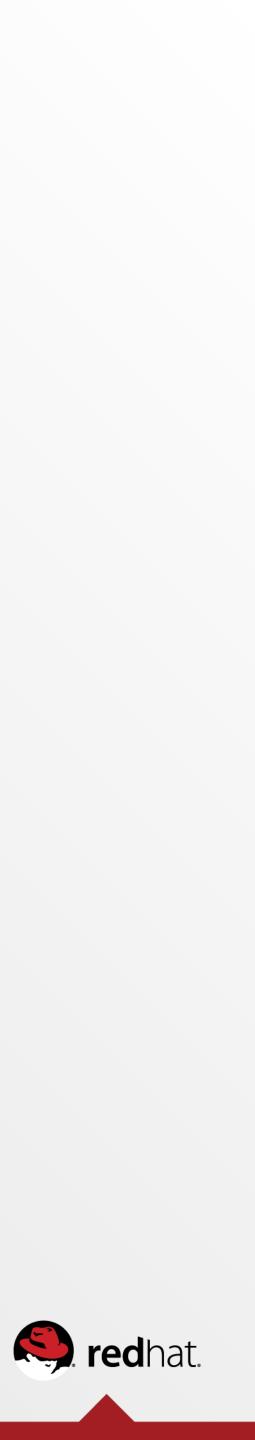




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### Journey Continues...





### **Recent and Near Future...**

- Recent Adds to JBoss Fuse
  - -Elastic provisioning and configuration management -Since JBoss Fuse 6.0; recently renamed in community
  - Fabric8 (http://fabric8.io) scale out management •Hawtio (http://hawt.io) - pluggable web console -Fuse Management Console – JBoss Fuse 6.1
- Moving towards iPaaS (integration platform as a service) • Fuse + OpenShift – integration with continuous deployment





## **More Information...**

- •http://camelone.org
- http://www.jboss.org/products/fuse
- https://www.openshift.com/developers/jboss-fuse

# http://www.redhat.com/products/jbossenterprisemiddleware/fuse



