

CamelOne Keynote

James Strachan, FuseSource

FuseSource
A Progress Software Company

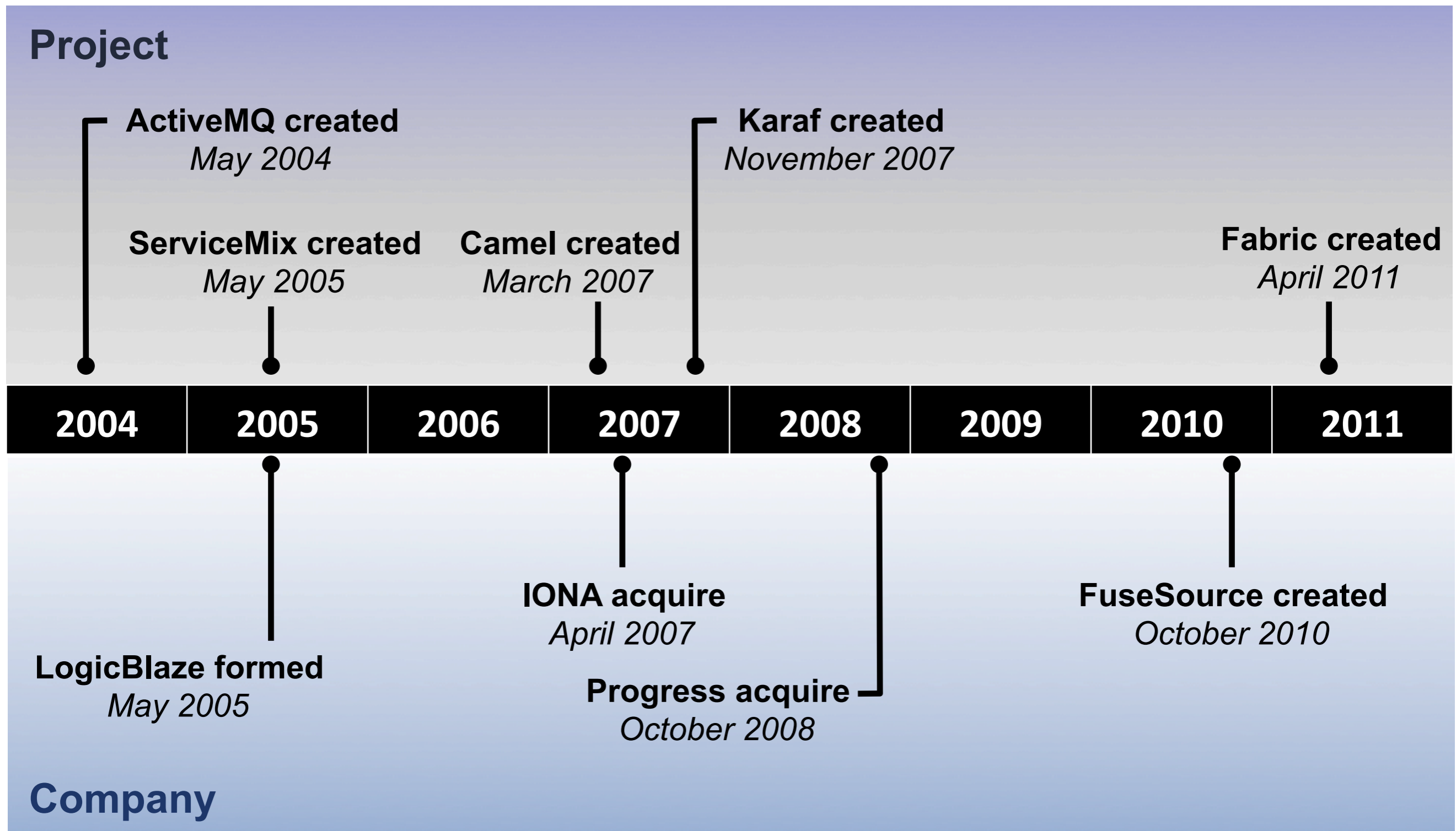
Your presenter is: James Strachan

- James Strachan
 - james@fusesource.com
 - twitter: @jstrachan
 - blog: <http://macstrac.blogspot.com/>
- Software Fellow at FuseSource
- long term Open Source contributor
 - created the Groovy programming language
 - co-founder of
 - Apache ActiveMQ, Camel, ServiceMix, Fabric
 - Scalate
 - did first commit on Camel! :)

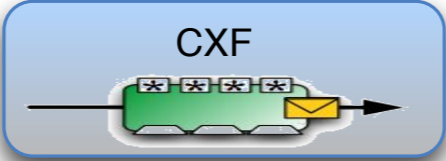


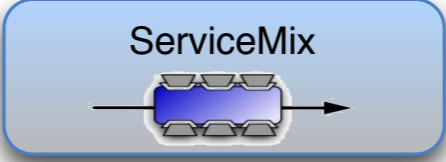

Agenda

- how did we get here
- where are we today
- where are we going
- demos

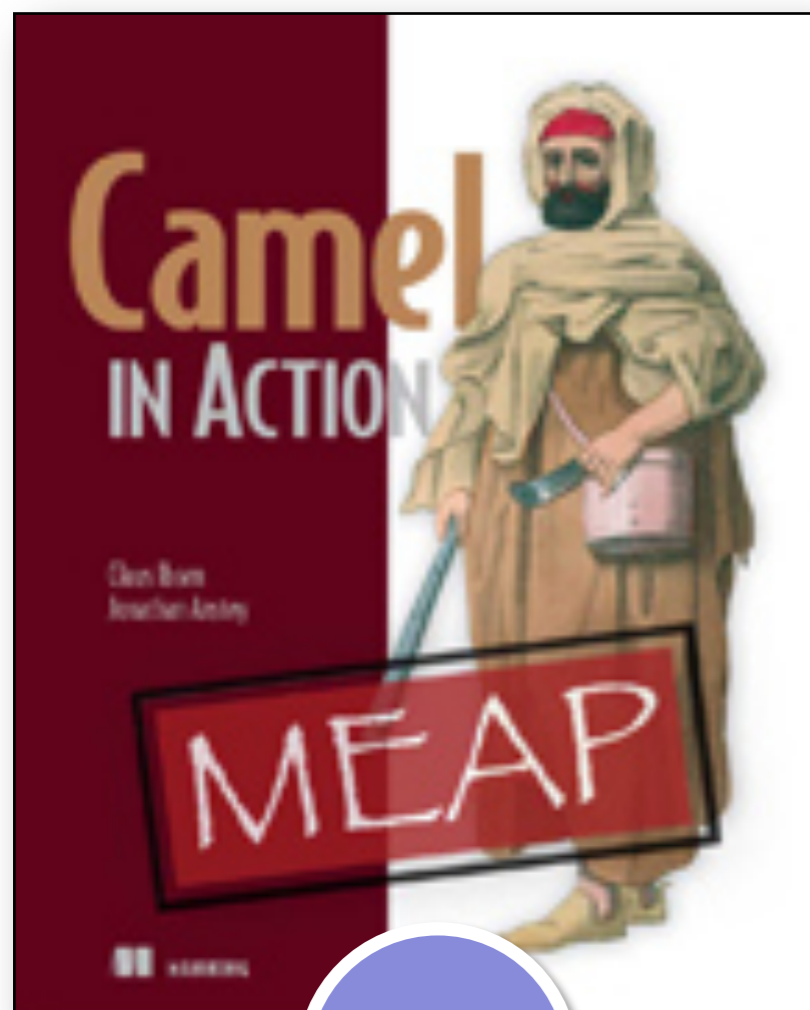
How did we get here?



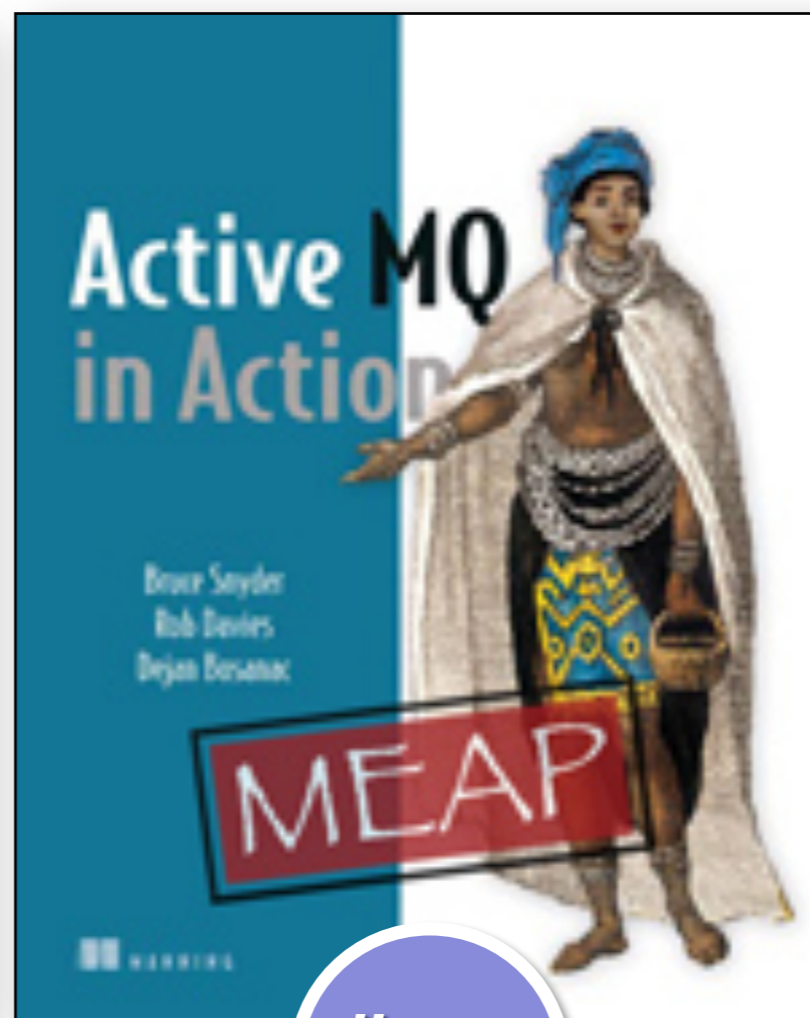
Where we are today : Fuse

	JAX-WS, WS-*, REST for Web and Restful Integration
	Enterprise Messaging, multi platform and language support, JMS, STOMP, AMQP1.0, Highly available and fault tolerant
	Enterprise Integration Patterns framework
	Enterprise Service Bus, distributed, clustered, OSGi, JBI
	OSGi based container, supporting multiple archive types, remote management, dynamic configuration, extensible shell

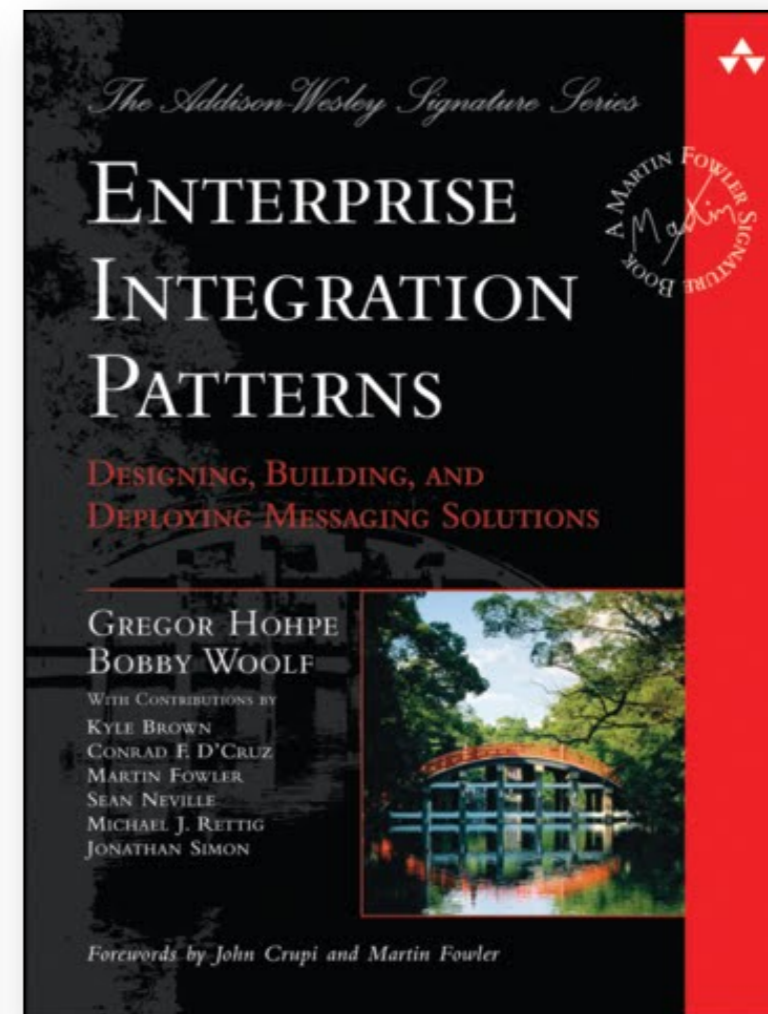
The books give a good overview of lots of Fuse...



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Fuse HQ

■ Manage systems

- Role-based access controls
- LDAP or Kerberos authentication
- Automate maintenance activities
- High availability
- Highly scalable

■ Monitor systems

- Visual representation of resources and relationships
- Reports generation
- Impact analysis and change control
- Auto-discover
- Intelligent alerts

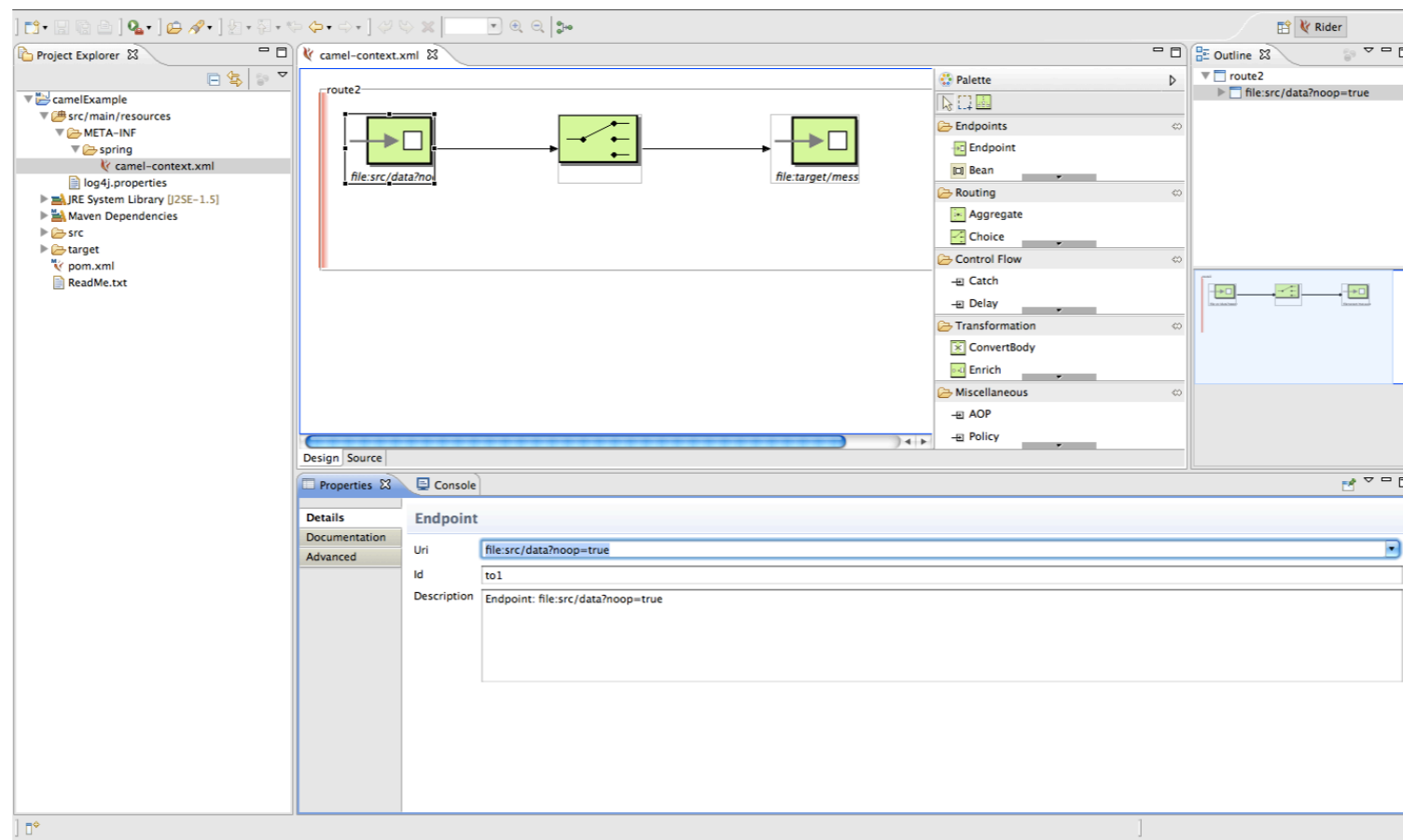
The screenshot displays the Fuse HQ web interface. At the top, there is a navigation bar with tabs for 'Home', 'Hyperlink', 'Sub-tab', and 'Tab'. Below this, a header section shows 'FUSE HQ' and a 'Recent Alerts' notification: '(There have been no alerts in the last 2 hours.)'. The main content area is divided into several sections:

- Navigation:** 'Dashboard', 'Resources', 'Analyze', and 'Administration' tabs.
- Breadcrumb:** 'Browse > nbwfhfbolton.emea.progress.com'.
- System Information:** A table-like view showing details for a system, including:
 - Description: Microsoft Windows XP
 - Default Gateway: 192.168.0.1
 - Vendor Version: XP
 - CPU Speed: 2 @ 1995 MHz
 - Architecture: x86
 - Owner: HQ Administrator (hqadmin) - Change...
 - Secondary DNS: 217.0.43.177
 - IP Address: 192.168.0.2
 - OS Version: 5.1
 - Vendor: Microsoft
 - Primary DNS: 217.0.43.177
 - RAM: 2048 MB
- Tools:** 'Map' and 'Tools Menu' buttons.
- Monitoring Section:** 'Monitor', 'Inventory', 'Alert', and 'Views' tabs.
- Metric Display Range:** 'Last 8 Hours' with an 'Advanced Settings' link.
- Resource List:** A table with columns for 'RESOURCES', 'INDICATORS', and 'METRIC DATA'.

RESOURCES	INDICATORS	METRIC DATA
<input type="checkbox"/> Platform Services Health	Avail	
<input type="checkbox"/> CPU	✓	
<input type="checkbox"/> FileServer Mount	✓	
<input type="checkbox"/> NetworkServer Interface	✓	
<input type="checkbox"/> Deployed Servers Health	Avail	
<input type="checkbox"/> nbwfhfbolton .NET 2.0	✓	
<input type="checkbox"/> nbwfhfbolton ActiveMQ 5.x-fuse	⊘	
- Indicator Chart:** 'Indicator Charts | Show Last 8 Hours' with a 'Cpu Usage (Win32)' chart showing a 'LOW: 14%' status.

Fuse IDE

- Eclipse plugin for working with Fuse
 - create Fuse projects quickly
 - view, create edit Camel EIP diagrams
 - deploy maven builds to Tomcat / Jetty / Karaf ServiceMix



Where we are going...

Fuse Fabric

Why Fuse Fabric?

- installing, configuring, running integration applications is hard
- we want to make it easy!

Fuse Fabric

- <http://fabric.fusesource.org/>
- open source software for configuring, provisioning & running Fuse and Apache software on any machines
 - physical, virtual, private, public, private+public cloud or not etc
- keeps you DRY from those rainy clouds :)
- weave your containers into an easy to manage fabric

Fuse Fabric: What does it do?

- distributed configuration
- discovery of services, endpoints and message brokers
- load balancing and failover
- provisioning of features across machines
- easy elastic scaling of services

What is Fabric?

■ Registry

- configuration
 - location transparent
- runtime
 - physical instances of processes/images/cloud resources

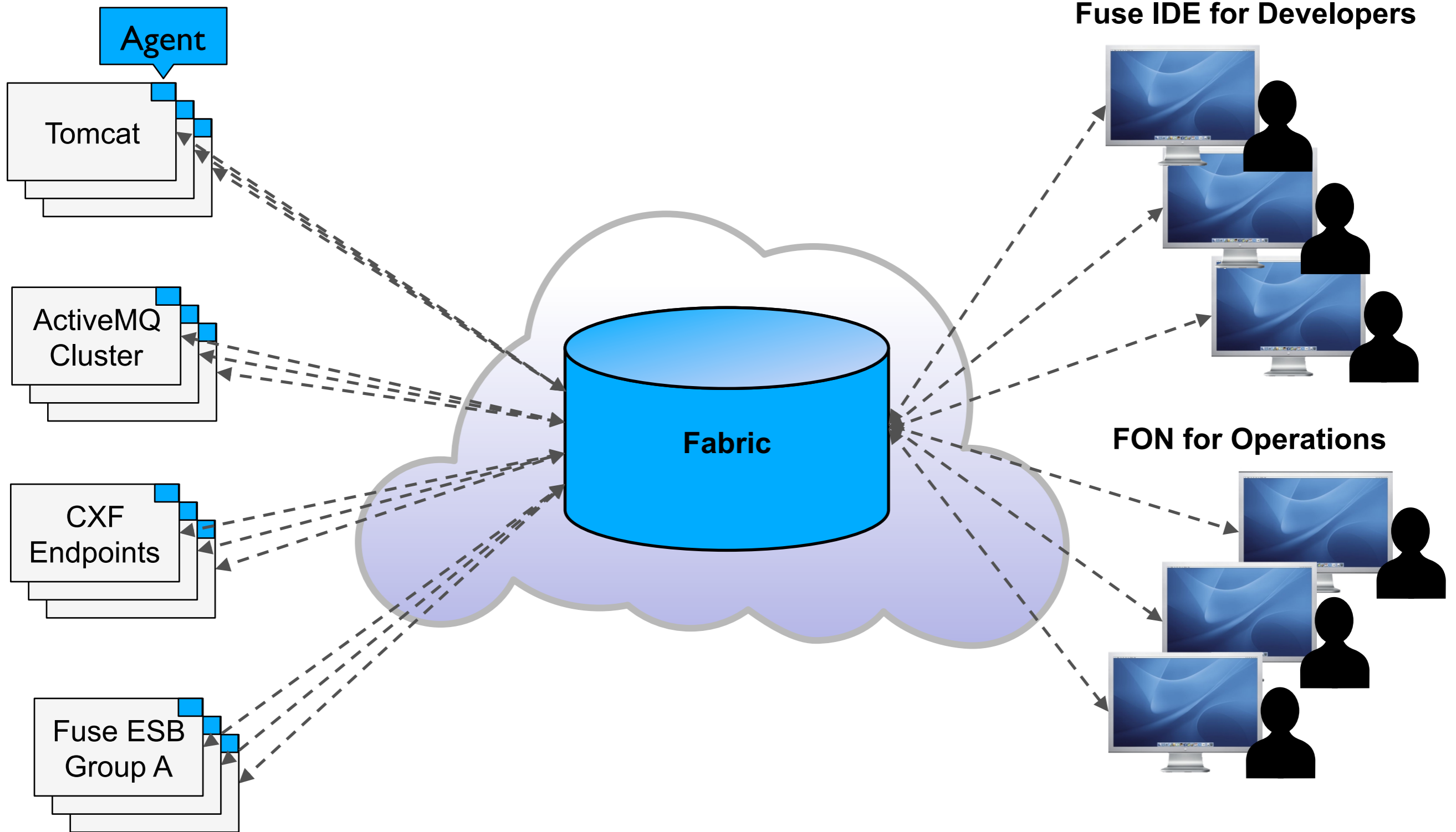
■ Agent

- provides coordination, configuration, provisioning & control by watching the Registry

■ Profiles

- Use of profiles for easy group configuration & control
- Lets you control a profile as a group rather than worrying about every single instance of a process

Fabric overview



Strands of Fabric

- Core Configuration & Provisioning Fabric
 - distributed OSGi Config Admin / blueprint / spring properties
- ActiveMQ Fabric
- Camel Fabric
- CXF Fabric
- D-OSGi Fabric
- ServiceMix Fabric
- Process Fabric

Where are we going...

Fuse Operational Network

Where are we going: FON

- Fuse Operational Network
 - powerful operational management, alerting & audit capabilities of the Fabric
 - fast alerts of bug fix patches
 - easy rolling upgrade & rollback of all configuration & version changes
 - automatic HA provisioning of ActiveMQ brokers

Where we're going: Our focus

- Build
 - Fuse IDE
- Run
 - Fuse Fabric
- Manage
 - Fuse Operational Network

Demo time!



Homework

- download Fuse IDE and play with it
 - <http://fusesource.com/products/fuse-ide-camel/>
 - give us feedback
- check out the Fuse IDE beta next month!

Any Questions?



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<http://fusesource.com>