



Build the Enlightened Enterprise

An Overview of the JBoss BPM Suite & JBoss FSW Integration Demo

Powered by Red Hat JBoss Middleware:

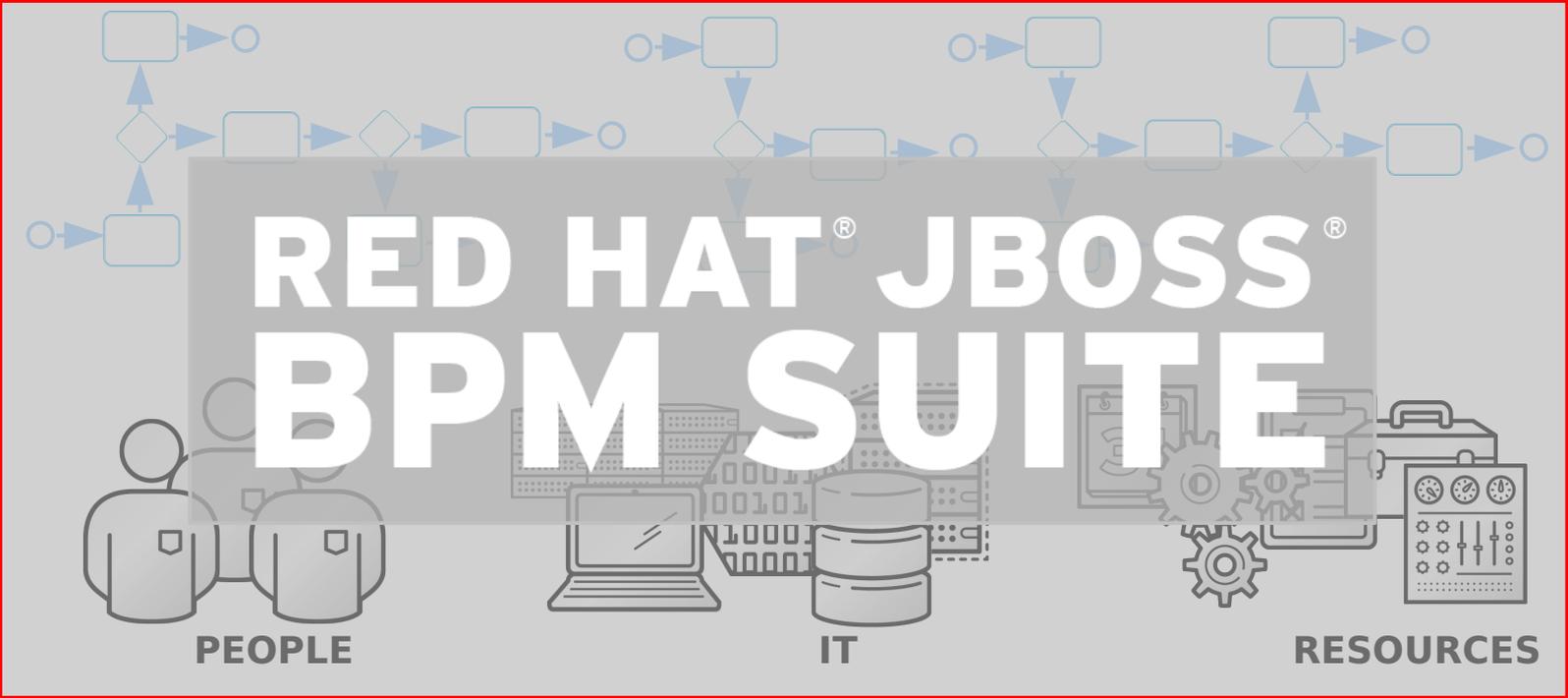
*JBoss BPM Suite v6
JBoss FSW v6*

JBoss Middleware becomes strategic

STRATEGY

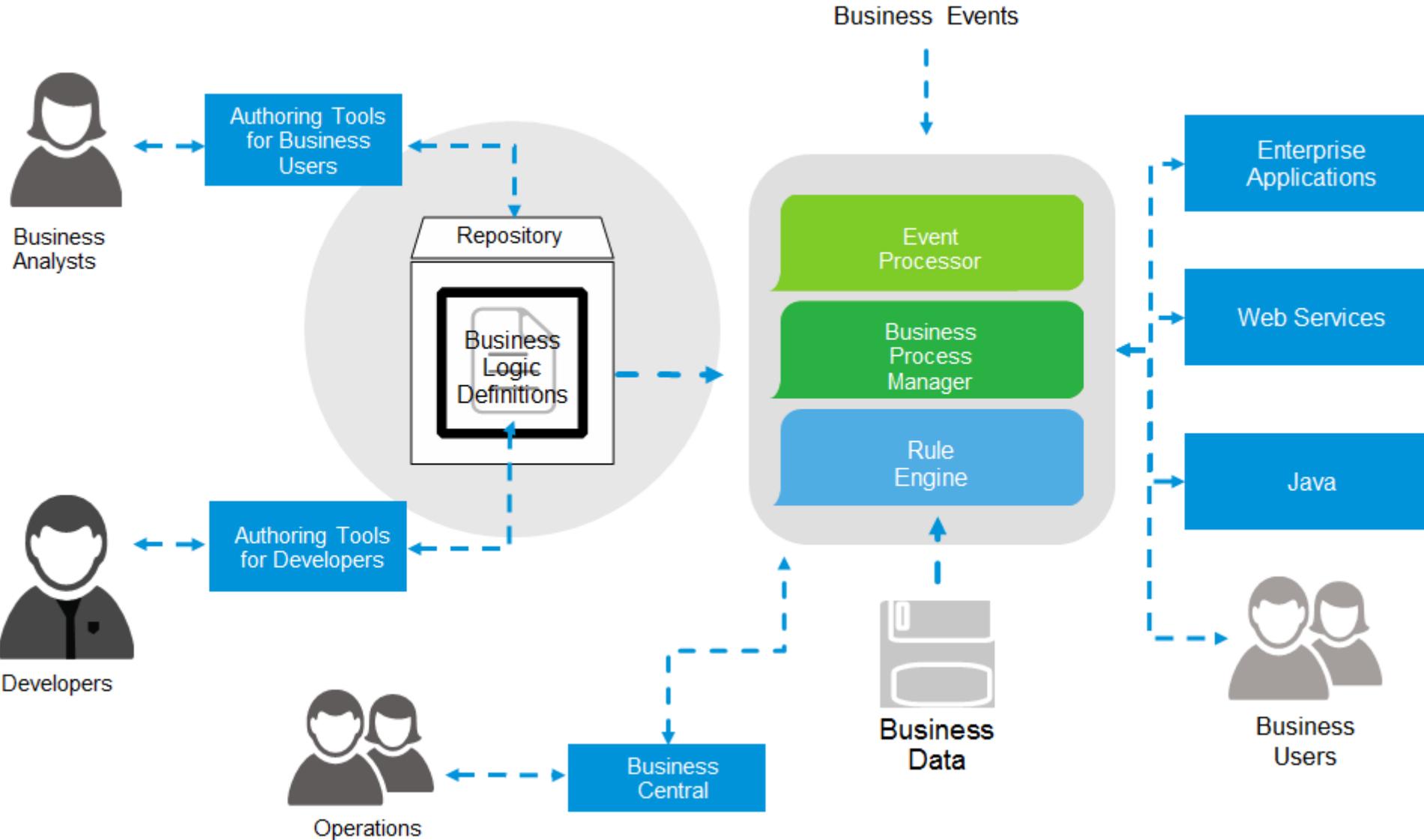


PROCESSES



OPERATIONS

Components in project



Value Proposition



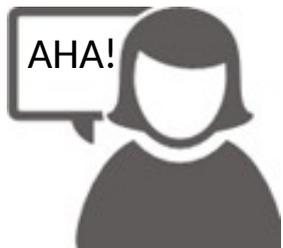
Automate
business operations
with intelligent
decision support



Optimize
business operations
with real-time BAM, analytics,
simulation and recommendation



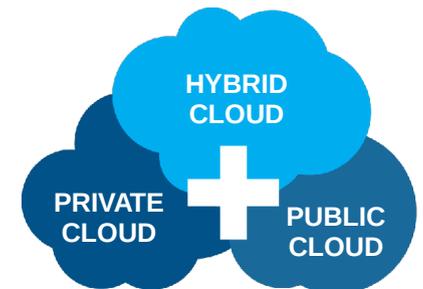
Accelerate
application development
with model-driven
design and integration



Empower
business users to
take control of operations

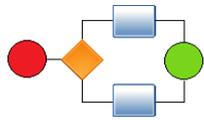


Collaborative working
during the entire process life cycle
and beyond the Enterprise



Deploy
in the Cloud
with BPM PaaS

Capabilities Overview



Processes

Create and deploy enterprise processes and applications through a model-driven composition environment and execution platform.



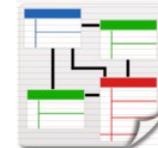
Services

Integrate and interoperate your existing enterprise systems and web services in your business processes using JBoss SOA Platform and JBoss Fuse modern ESB.



Rules

JBoss BRMS is included in JBoss BPM Suite to support the definition, management and execution of business rules by Business and IT users.



Data

Data modeling tool that also enables participants to manipulate and manage data entities within running processes.



Events

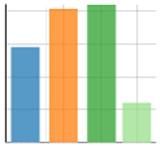
Handle events as first class citizens of the platform, dedicating an independent module to Manage Complex Event Processing (CEP).



Forms

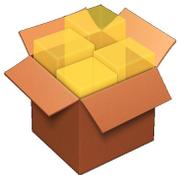
Forms modeling tool to build dynamic and interactive web forms using using a WYSIWYG drag-and-drop interface.

Capabilities Overview



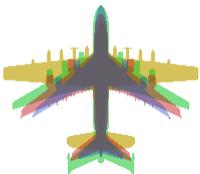
Analytics

Build dashboards that deliver real-time business activity monitoring (BAM) and reporting with personalized information, measure and analyze key indicators to track process performance to make quick and effective decisions.



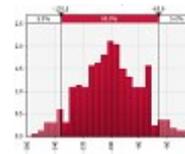
Assets

Pluggable multi-dimensional repository for knowledge representation of processes, rules, data and services to facilitate reusability, change management, governance and compliancy.



Execution

Integrated execution environment with separates engines for processes, tasks, events and rules. Deploy in different application servers, on-premise or in cloud.



Simulation

Establish, execute and analyse different simulation scenarios. Identify bottlenecks. Decide what are the optimal parameters and thresholds for your processes. Make effective recommendations.



Workspace

The execution environment provides a Rich User Interface (RUI) or Portal that centralize user participation, attending alerts and triggers, and notifying actions to each role across the entire process lifecycle.

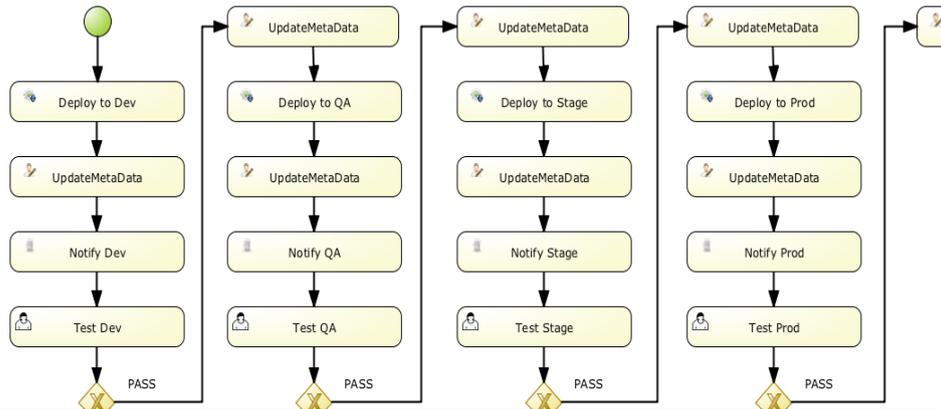


Development

JBoss Workbench IDE lets developers easily extend, build and integrate process-based applications.

BPM Governance with FSW & S-RAMP

Simple Release Process (overlord.demo.SimpleReleaseProcess)



RED HAT JBOSSE GOVERNANCE

Design Time Runtime Governance Repository

S-RAMP Dashboard / Artifacts

Core Properties

Type: Any (e.g. WsdDocument)

Date Created: Any to Any

Date Last Modified: Any to Any

Created By: Any

Last Modified By: Any

Origin: Any Primary

Name	Type	Derived	Last Modified
dtgov-workflows-1.0.1.Final-redhat-8.jar	KieJarArchive		08/18/2014
evaluation-1.0.jar	KieJarArchive		08/18/2014
evaluation-1.0.jar.undeploy	UndeploymentInformation		08/18/2014
evaluation-1.0.pom	MavenPom		08/18/2014
financerules.drl	DroolsDocument		08/18/2014
kmodule.xml	KieXmlDocument		08/18/2014
kmodule.xml	KieXmlDocument		08/18/2014
overlord.demo.CheckDeployment-taskform.xml	XmlDocument		08/18/2014
overlord.demo.ReviewMeeting-taskform.xml	XmlDocument		08/18/2014
overlord.demo.SimpleReleaseProcess.bpmn	BpmnDocument		08/18/2014
overlord.demo.SimplifiedProjectLifeCycle.bpmn	BpmnDocument		08/18/2014

RED HAT JBOSSE GOVERNANCE

Design Time Runtime Governance Repository

DTGov Dashboard / Task Inbox

Task Filters

Owner: Any My Tasks Active Tasks Group Tasks

Priority: Any

Date Due: Any to Any

Clear All Filters

Name	Priority	Owner	Status	Due On
Test Qa	3		Ready	

overlord@example.com

To: dev@example.com

[Overlord-dev] evaluation-1.0.jar is deployed

Artifact 9ec1fa85-93a6-419d-8e8e-17d04a0e1d99 with name 'evaluation-1.0.jar' has been deployed to target dev. Please claim this task, test this deployment and set a pass/fail status at the taskform at <http://localhost:8080/dtgov-ui/#taskInbox>

--Overlord

S GOVERNANCE

Runtime Governance Repository

© JBoss Overlord 2013

Overview Relationships

Links

Download Content

Download Meta Data

Core Properties

Type: KieJarArchive

UUID: 9ec1fa85-93a6-419d-8e8e-17d04a0e1d99

Derived: false

Date Created: 2014-08-18 by erics

Last Modified: 2014-08-18 by dtgovworkflows

Custom Properties

maven.artifactId: evaluation

maven.groupId: customer

maven.hash.md5: 31d68e1db6df89bcf577

maven.hash.sha1: 1ffa6e91ac06c6e683ac

maven.type: jar

maven.version: 1.0

workflowProcessId=overlord.demo.SimpleReleaseProcess

1_workflowParameters=DeploymentUri=http

Add Property

Classifiers

http://www.jboss.org/overlord/deployment-status.owl#DevTest

http://www.jboss.org/overlord/deployment-status.owl#InDev

Modify Classifiers

Description

<no value>

Task Details

Claim Release Start Stop

Task Properties

ID: 1

Status: InProgress

Owner: erics

Priority: 3

Due Date:

Description

Please Claim & Start this Task, then check the deployment and mark as Pass/Fail

Artifact

evaluation-1.0.jar (UUID: 9ec1fa85-93a6-419d-8e8e-17d04a0e1d99)

Deployed to Target

COPY:/tmp/dev/evaluation-1.0.jar

Please record your findings

Pass

Fail

Complete Fail

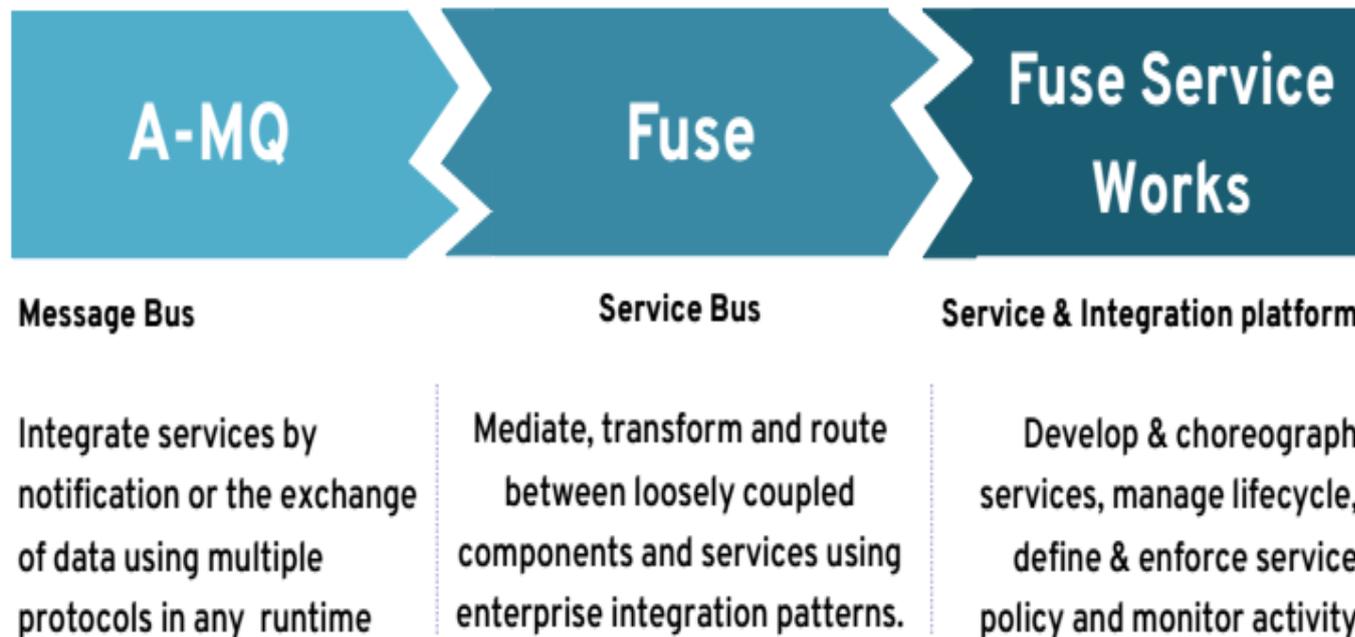
© JBoss Overlord 2013



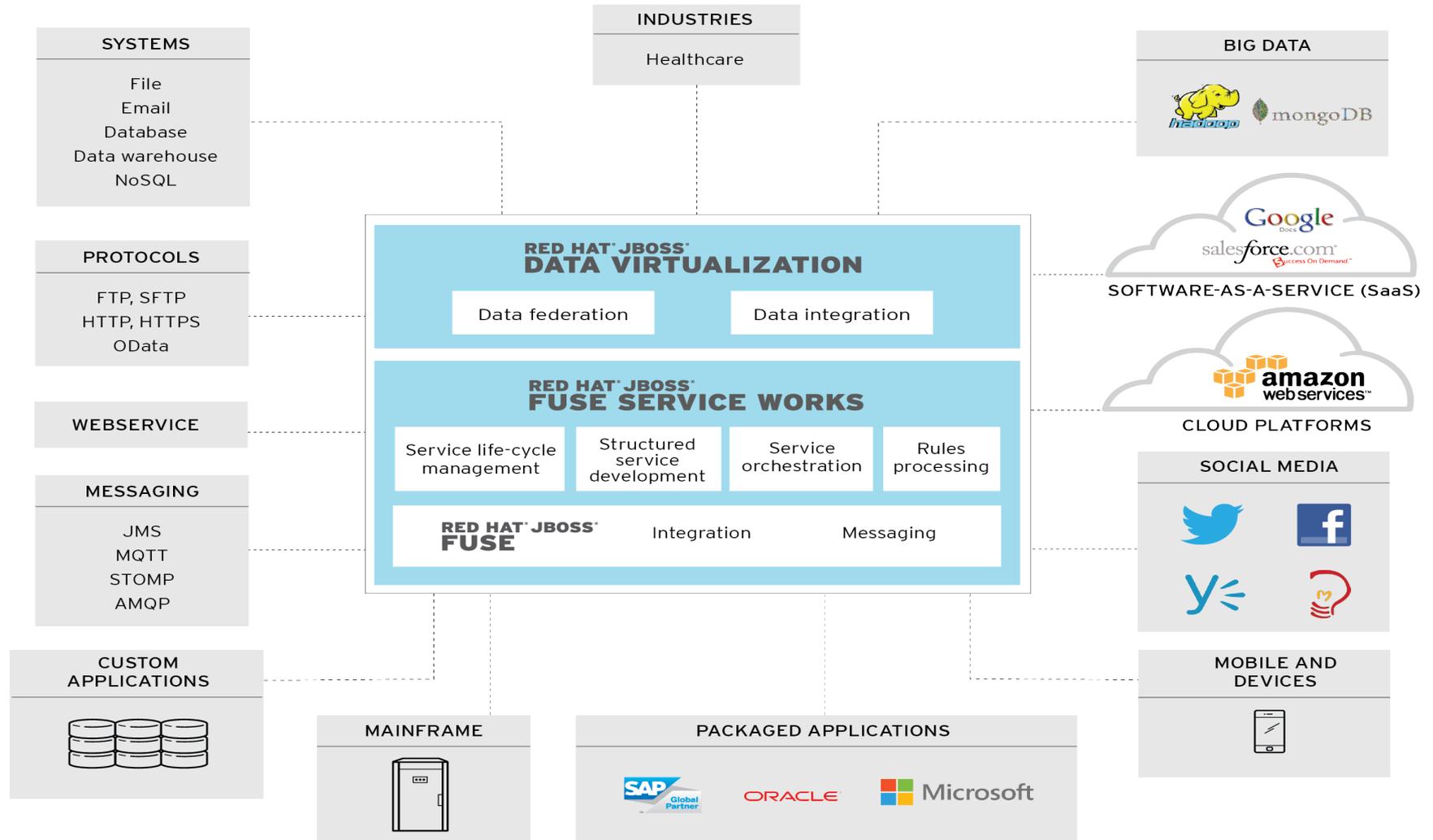
OVERVIEW OF FUSE SERVICE WORKS

JBoss Fuse integration product line

Additive capabilities to fit any use-case



JBoss Middleware - Multiple Connectivity Options



JB0046

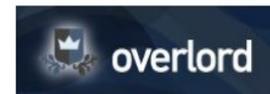
A service design, development and integration platform that enables organizations to transition to open hybrid cloud



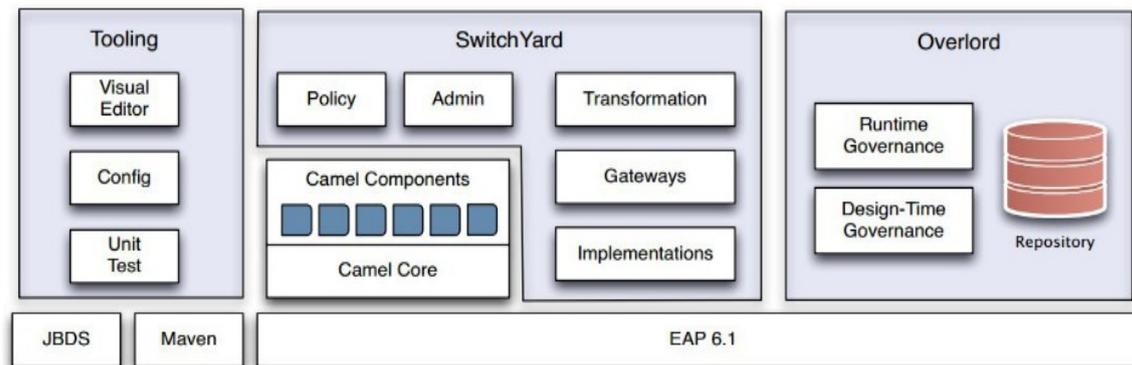
<http://camel.apache.org/>



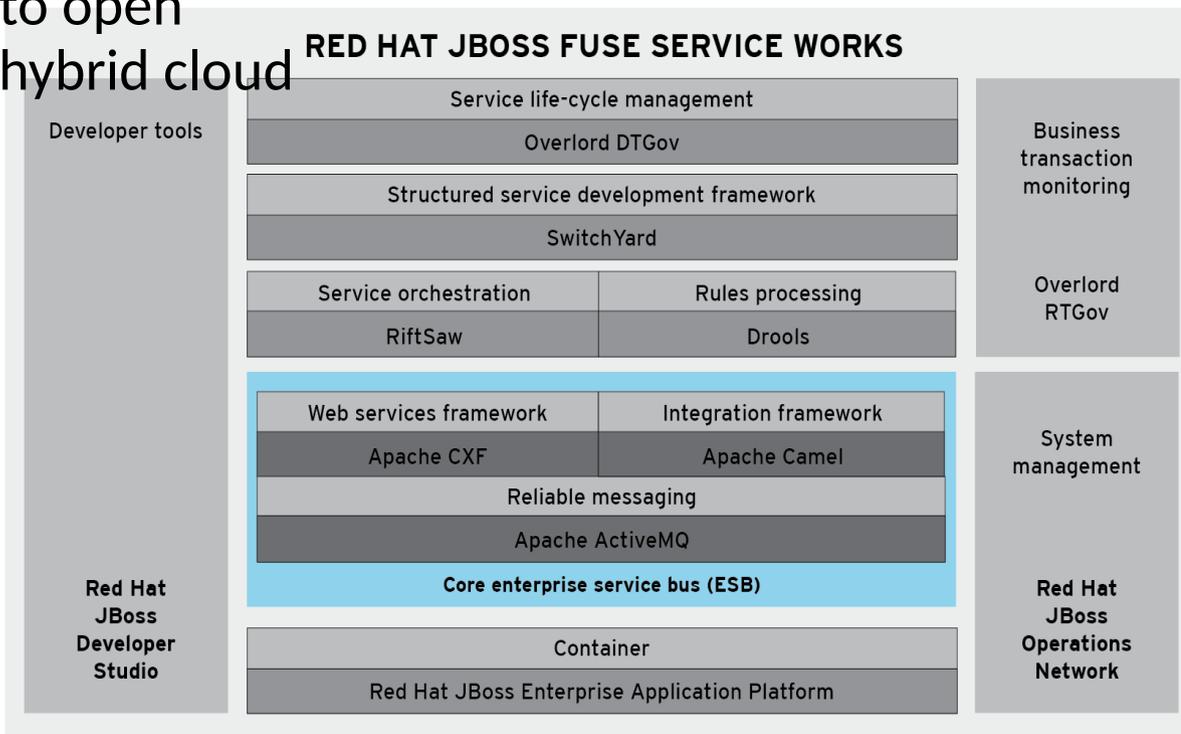
<https://www.jboss.org/switchyard>



<http://www.jboss.org/overlord>

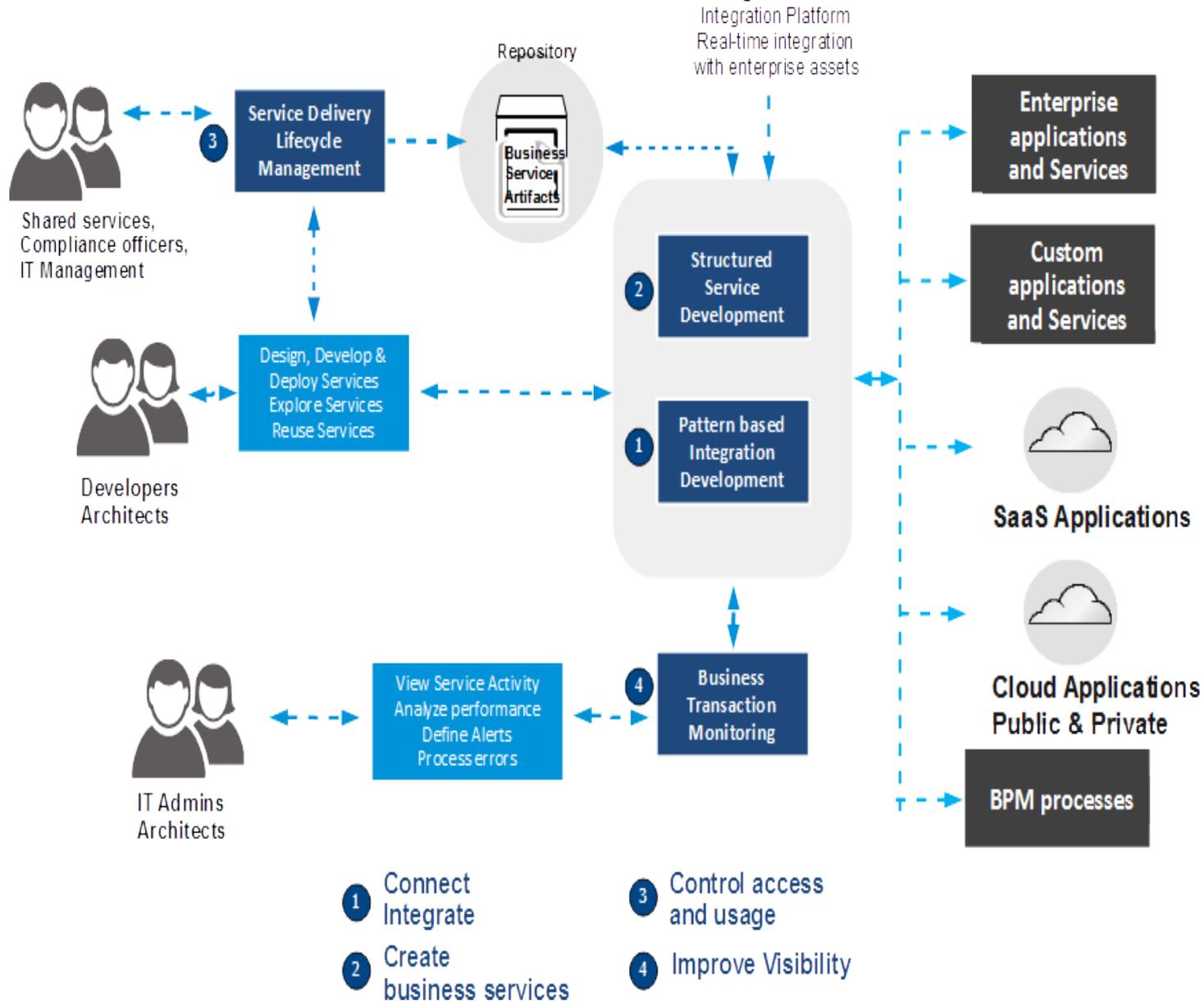


RED HAT JOSS FUSE SERVICE WORKS



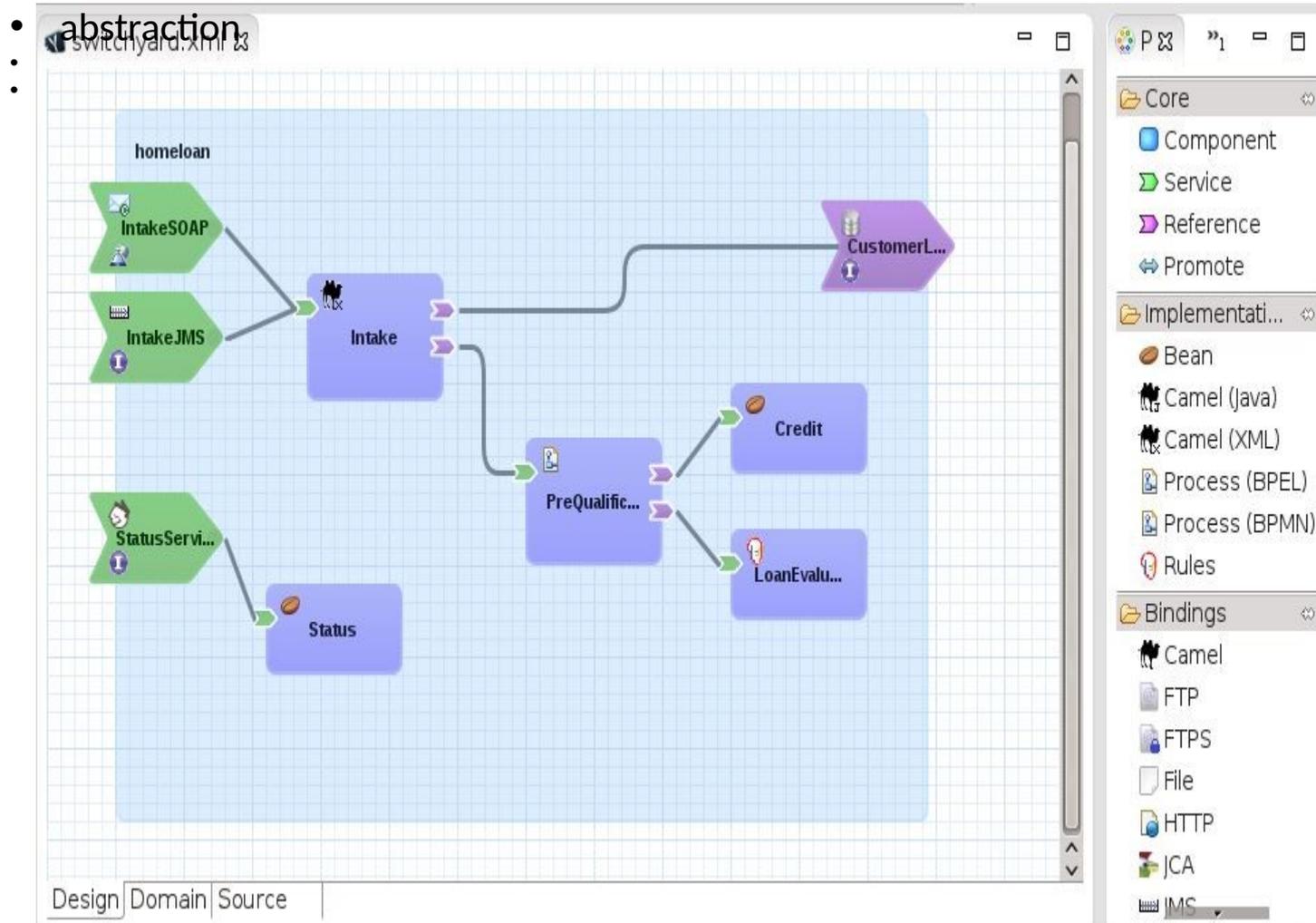
JB0036

JBoss Fuse Service Works components

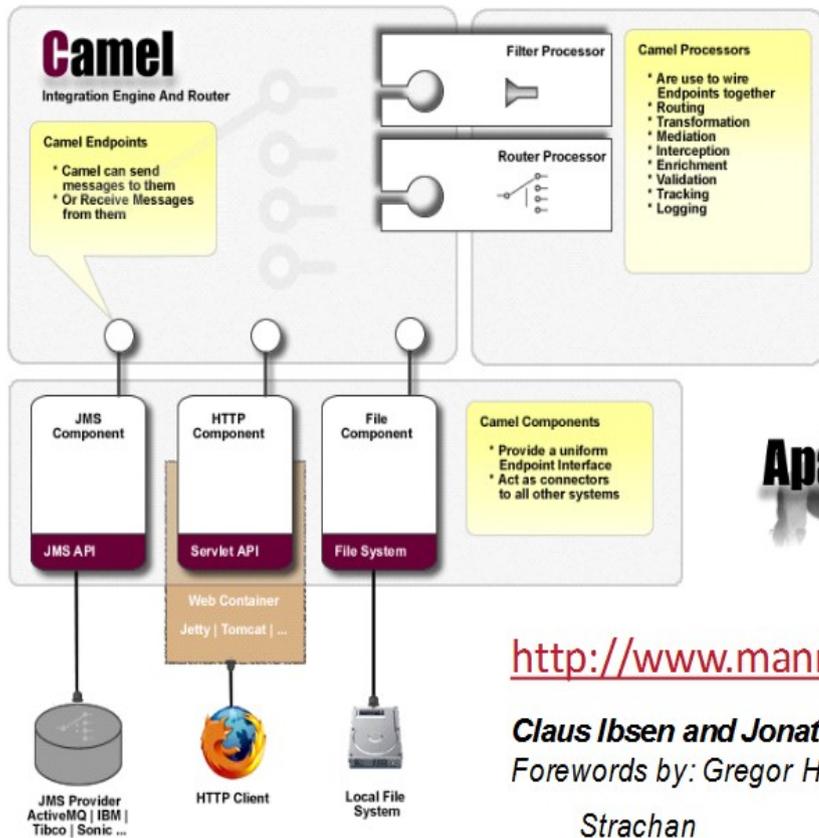


Switchyard

- Lightweight, SCA-based, structured
- service development framework
- Design, code, test at higher service abstraction
- Store and reuse business services - shared repository
- Easily call BPMN based BPM processes
- Visual Tooling: Model is the application



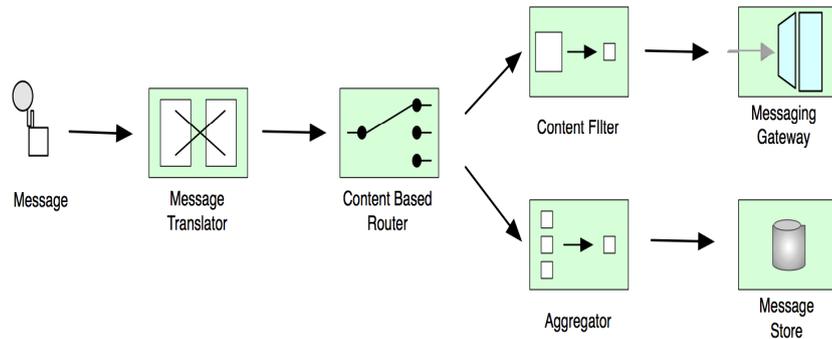
Camel



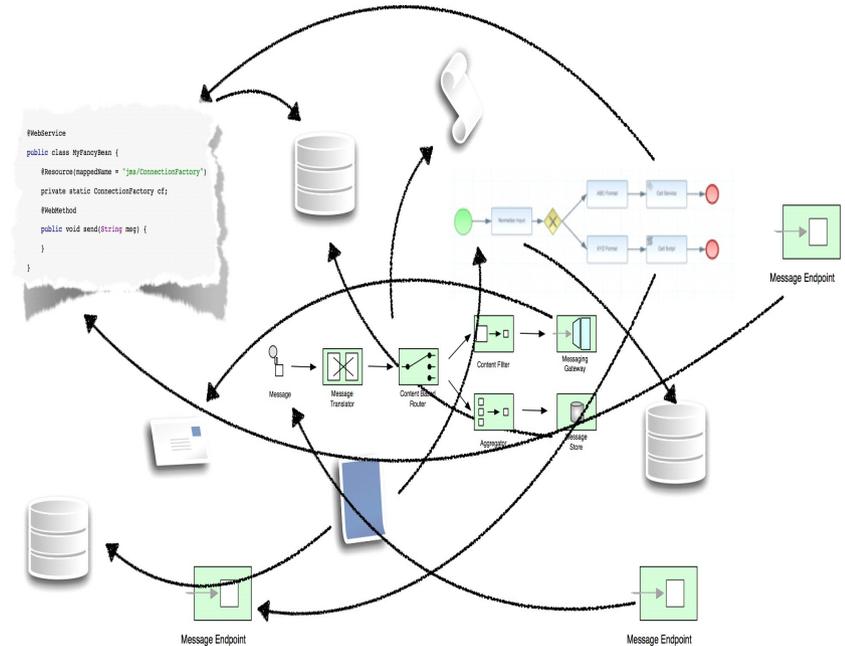
<http://www.manning.com/ibsen/>

Claus Ibsen and Jonathan Anstey
Forewords by: Gregor Hohpe and James Strachan

Simplicity is good



Reality is not always simple



Overlord Design Time Governance

- Service component and artifact registry (S-RAMP)
- Store, share services/policies across teams
- Team Notifications on content changes
- Track and Visualize artifact relationships
- Impact Discovery & Analysis
- Web and CLI tools to simplify search and reporting

The image displays two screenshots related to S-RAMP and Overlord. The top screenshot shows the S-RAMP Repository Browser interface, which includes a search bar, filters for Type, Date Created, Date Last Modified, and Created By, and a table of artifacts.

Name	Type	Derived	Last Modified
ws-humantask-context.xsd	XsdDocument		12/11/2013
ws-humantask-learntask-api.wsd	WsdDocument		12/11/2013
ws-humantask-policy.xsd	XsdDocument		12/11/2013
ws-humantask-protocol.wsd	WsdDocument		12/11/2013
ws-humantask-types.xsd	XsdDocument		12/11/2013
ws-humantask.xsd	XsdDocument		12/11/2013

The bottom screenshot shows the Boss Developer Studio interface, displaying a BPMN diagram for the 'SimpleReleaseProcess.bpmn'. The diagram illustrates a multi-stage release process with four parallel paths: Dev, QA, Stage, and Prod. Each path includes tasks for 'UpdateMetaData', 'Deploy to [Environment]', 'Notify [Environment]', and 'Test [Environment]'. The process starts with a start node, followed by a parallel gateway. Each path then flows through its respective tasks, ending with a parallel gateway and a final 'UpdateMetaData' task. The diagram also shows a 'Project Explorer' on the left and a 'Problems' panel at the bottom.

Overlord Run Time Governance

Grow service quality

SLA enforcement, alerting and real-time transaction monitoring

Realize IT Agility

Independently manage SLA and runtime policy from service definition.

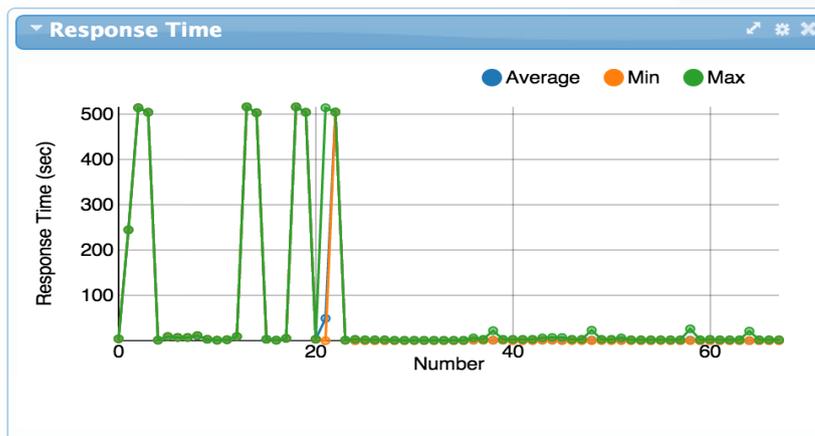
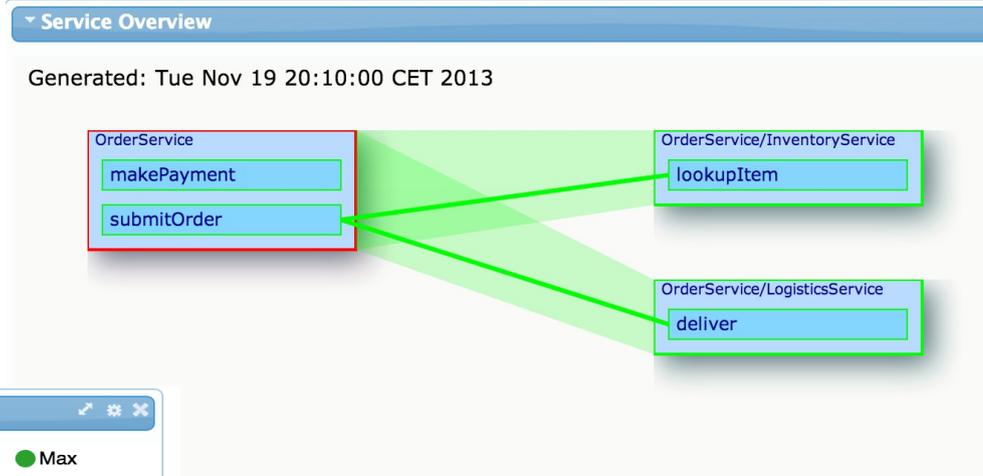
Increase operational visibility

Identify precisely where, why and how transactions are delayed by track SLA violations

Understand and measure operational efficiency

Long term storage of operational data to support analysis & optimization

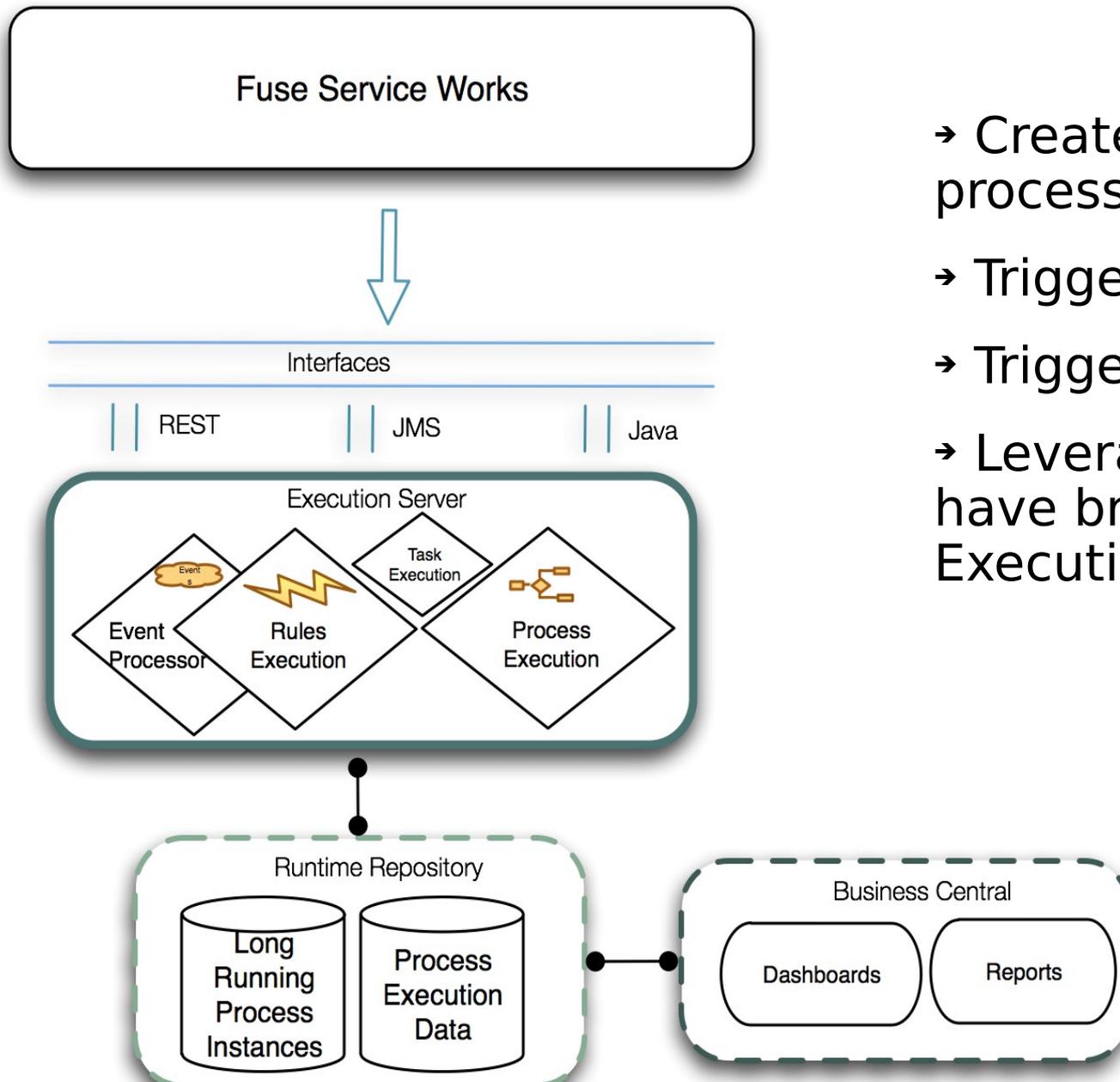
Situation				
Type	Severity	Description	Time	Details
SLA Violation	Critical	OrderService exceeded maximum response time of 400 ms	2013-11-19 19:52:59	▼
SLA Violation	Critical	OrderService/InventoryService exceeded maximum response time of 400 ms	2013-11-19 19:52:59	▼
SLA Violation	Critical	OrderService exceeded maximum response time of 400 ms	2013-11-19 19:52:58	▼
SLA Violation	Critical	OrderService/InventoryService exceeded maximum response time of 400 ms	2013-11-19 19:52:58	▼





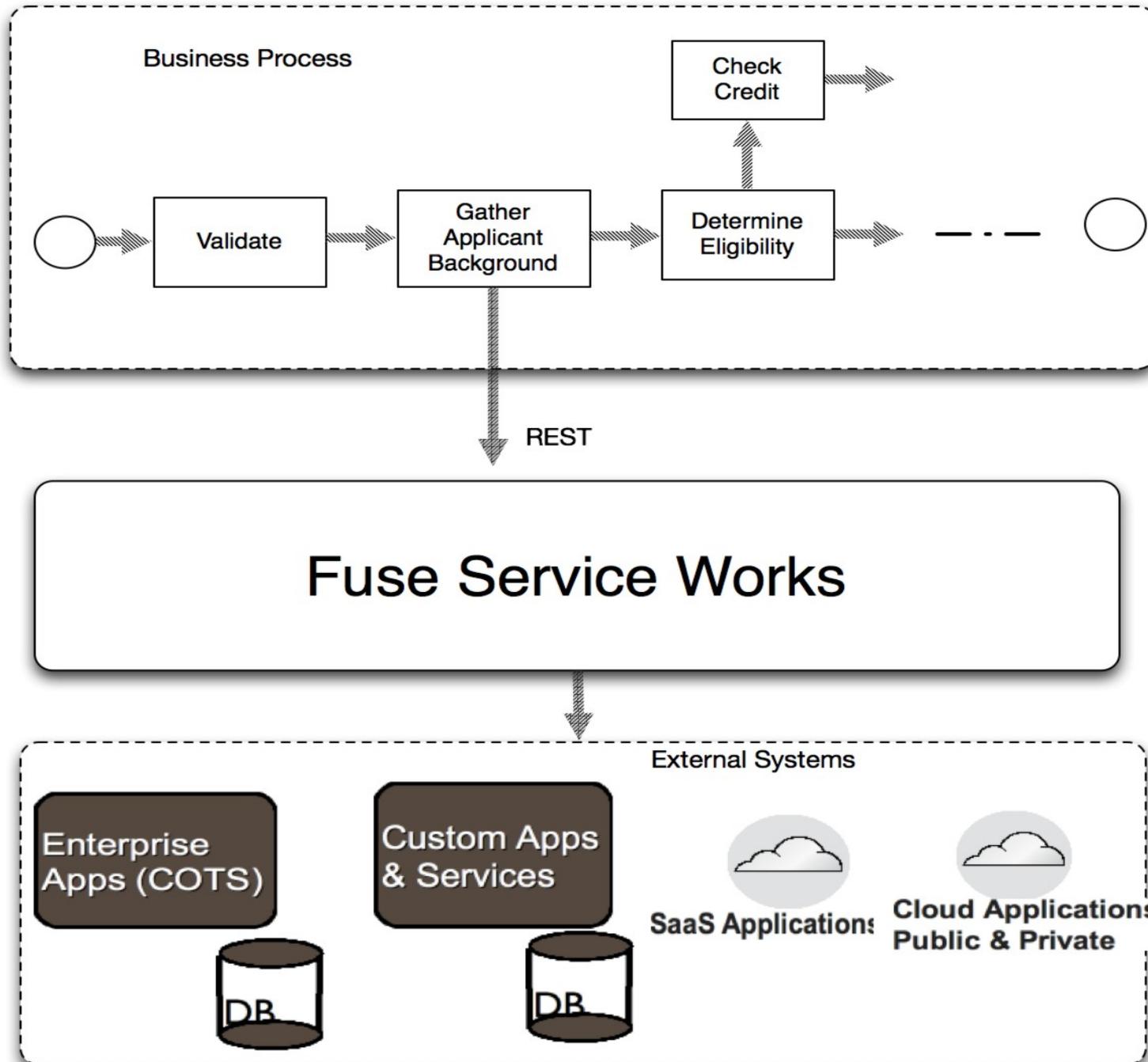
INTEGRATION EXAMPLES OF FUSE SERVICE WORKS AND BPM SUITE

FSW Interacting with BPM Suite

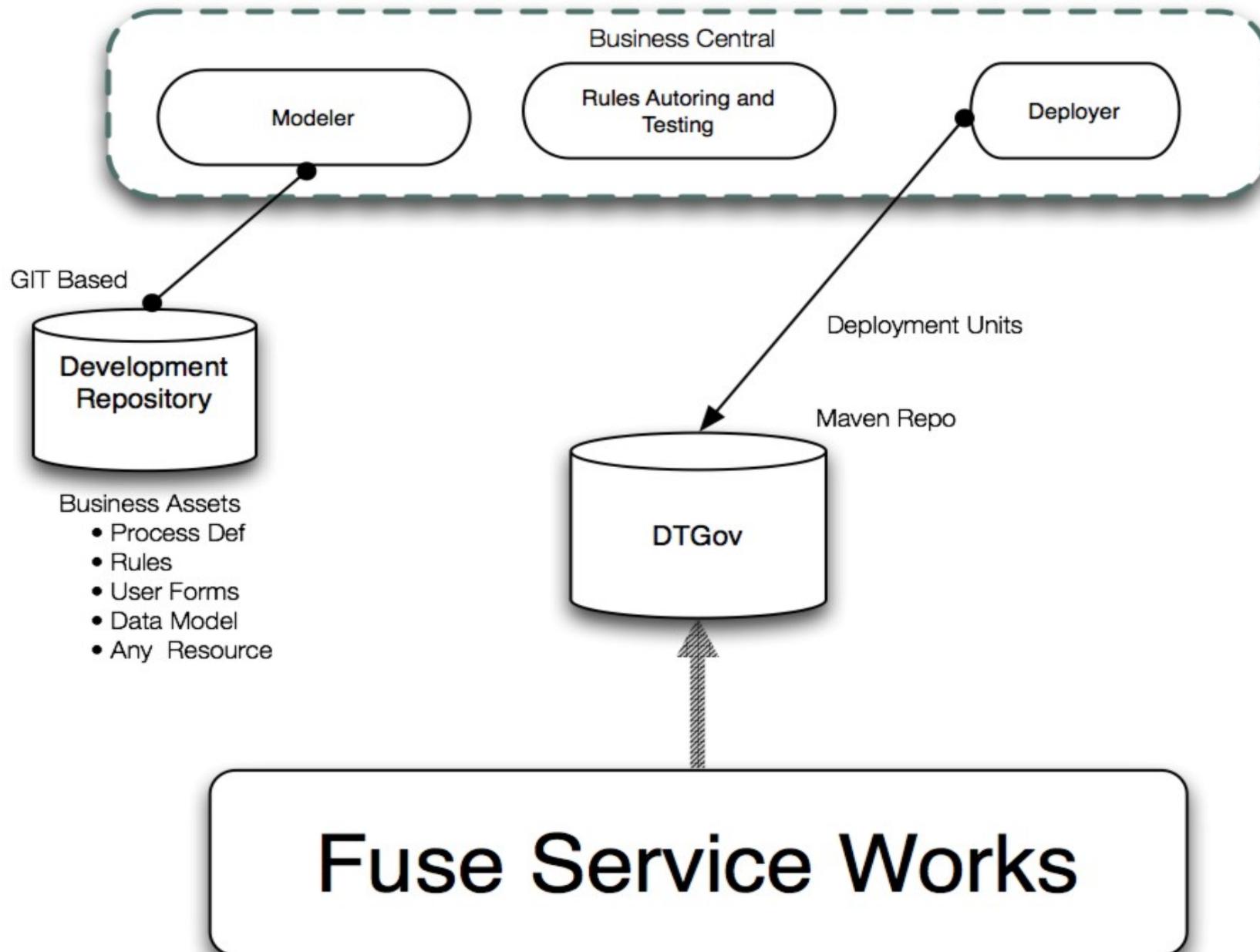


- Create an Instance of a process
- Trigger a process instance
- Trigger a human task
- Leverage the REST Interface have broader access to BPM Execution environment

Business Process Interacting with FSW



Model in BPMS : Deploy in FSW





Build the Enlightened Enterprise

For more information, please visit
<http://www.jboss.com>

Demo project available at:
<http://github.com/eschabell/bpms-fsw-integration-demo>