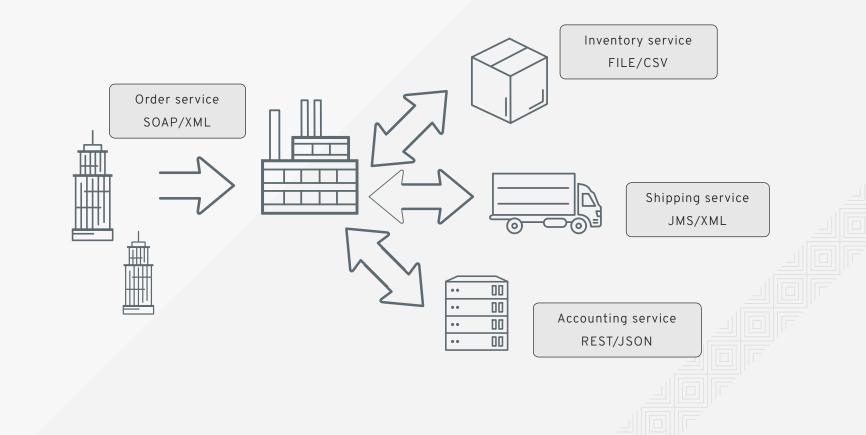


### SWITCHYARD EXERCISE

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### WHAT WE WANT TO ACHIEVE? USE SWITCHYARD TO COMPOSE 3 APPLICATIONS



### ENVIRONMENT

RED HAT JBOSS FUSE + JBOSS DEVELOPER STUDIO WITH INTEGRATION STACK

INSTALATION GUIDE: HTTP://WWW.JBOSS.ORG/PRODUCTS/FU SE/GET-STARTED/

# PREPARATION

Clone git projects:

- > git clone https://github.com/qa/course-sys-int-systems.git
- > git clone https://github.com/qa/course-sys-int-switchyard-seminar.git
- copy file \$WORKSPACE/course-sys-int-switchyardseminar/src/resources/keystore.jks to \$FUSE\_HOME/bin folder
- copy file \$WORKSPACE/course-sys-int-switchyardseminar/activemq.xml to \$FUSE\_HOME/etc folder
- add a user to \$FUSE\_HOME/etc/users.properties: shipuser=shippwd,admin,manager,viewer,Monitor, Operator, Maintainer, Deployer, Auditor, Administrator, SuperUser
- start/restart JBoss Fuse \$FUSE\_HOME/bin/fuse

run course-sys-int-system application

> mvn clean camel:run

# LAB APPLICATION

project: course-sys-int-switchyard-seminar initial branch: master

- Lab01
  - REST binding
- Lab02
  - JMS binding
- Lab03
  - FILE binding



## LAB 01 Rest

**Goals:** Integrate Accounting application via REST

#### Steps:

- Create new reference AccountingService and promote the service
- Set REST binding with
  - https://localhost:7171
  - AccountingServiceReference
  - admin/foo/localhost/7171
- Use the reference in ShopServiceBean

#### Test: Lab01RESTTest



### **LAB 02** JMS

**Goals:** Integrate Shipment application via JMS

#### Steps:

- Create new reference ShipmentRequestService
- Generate WSDL from ShipmentRequestService.java
- Promote the service and specify the created wsdl file
- Set JMS binding with
  - Queue SHPMNT.REQ
- In ShopOrderServiceBean use ReferenceInvoker
- Create a bean for ShipmentResponseService
- Generate wsdl and promote to the wsdl file
- Set JMS binding
  - Queue SHPMNT.RESP
- Map all properties by setting regex to '.\*' (in both bindings)
- Connect ShipmentResponseService to OrderStatusService



### LAB 03 FILE

Goals: Integrate Inventory application via File

#### Steps:

- Create reference InventoryRequestService
- Promote to InventoryInboxService
- Implement Java transformer
- Set File binding with
  - \${sys.base}/target/inbox/inventory
- In ShopOrderServiceBean use ReferenceInvoker
- Create a bean for InventoryResponseService
- promote to InventoryOutboxService
- Set File binding with
  - \${sys.base}/target/outbox/inventory
- Use the message composer
- Connect InventoryResponseService to OrderStatusService



### HOMEWORK ;-) DEPLOYMENT

Requires more steps on Karaf

- configure keystore at \$FUSE\_HOME/etc/org.ops4j.pax.web.cfg
- jms connection factory is set via blueprint or spring
- install features listed in src/main/resources/features.xml
- > features:addurl mvn:com.redhat.brq.integration/switchyard-seminar/0.0.1-SNAPSHOT/xml/features

> features:install switchyard-integration-course

- probably you will need to fix dependencies according to the current version
- quickstarts are available at \$FUSE\_HOME/quickstarts/switchyard

