JBoss Community

SWITCHYARD

Lab 3

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Goals

- Main Objectives
  - Create a BPM process
  - Build and test

Creating a Business Process Service

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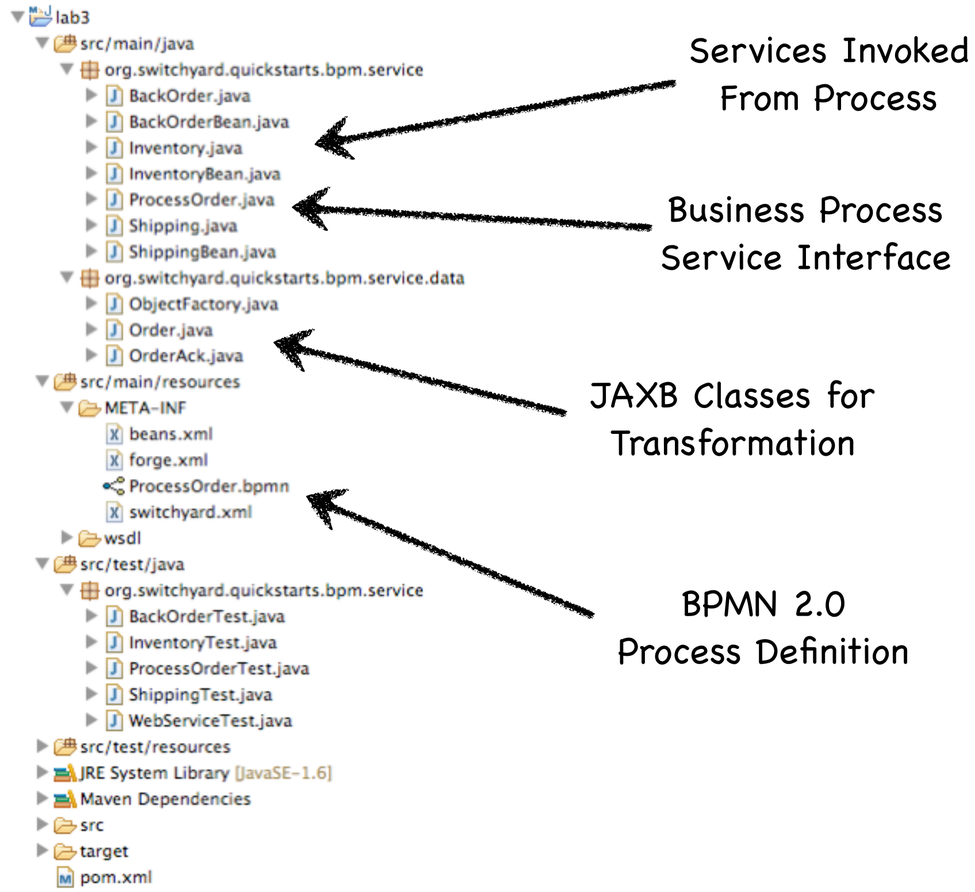
Import Lab3 App

- File -> Import
- Maven -> Existing Maven Projects
- Next
- Root Directory : workshop/labs/lab3
- Select lab3
- Next
- [Resolve All Later]
- Finish

What's Inside



Hands On!

- Option 1 - Clean Hands
  - Copy in existing business process definition

```
% cd workshop/labs/lab3
% cp -R etc/main src/
```

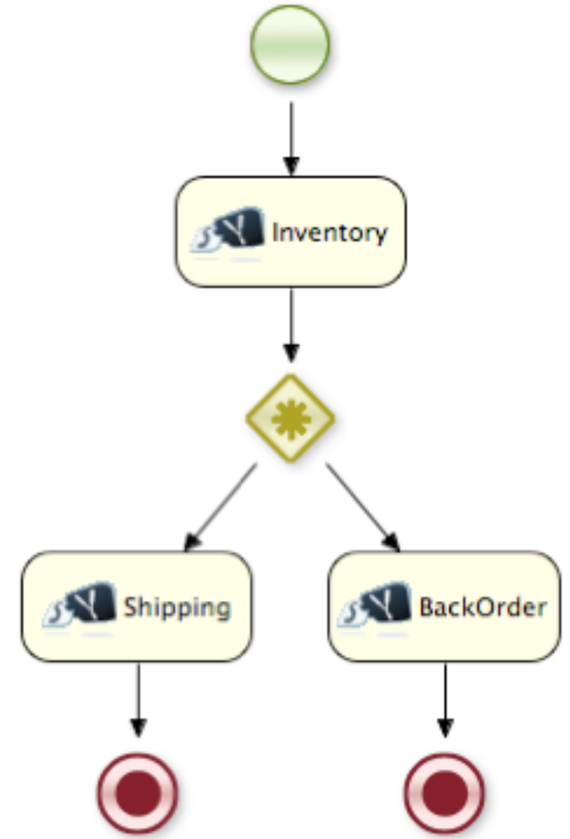
- Option 2 - Dirty Hands
  - Create BPMN 2 definition from scratch

ProcessOrder.bpmn

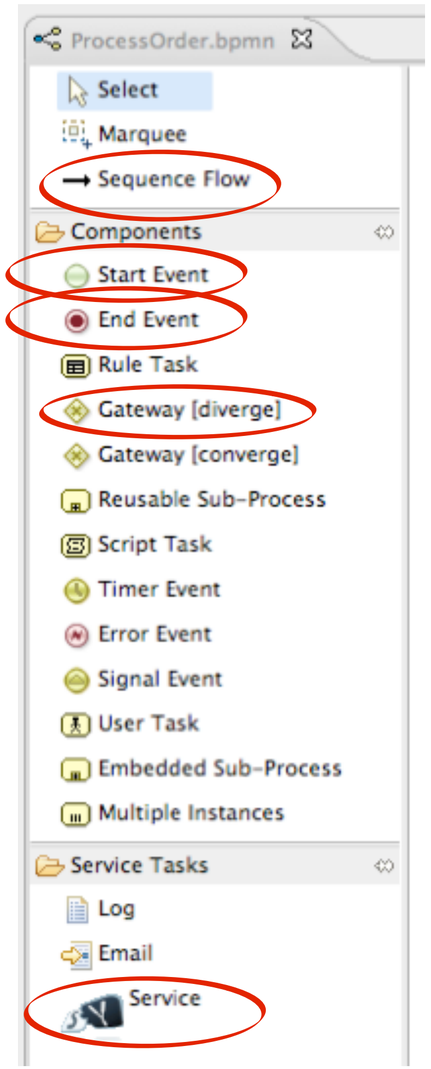
(before)

ProcessBuilder.bpmn

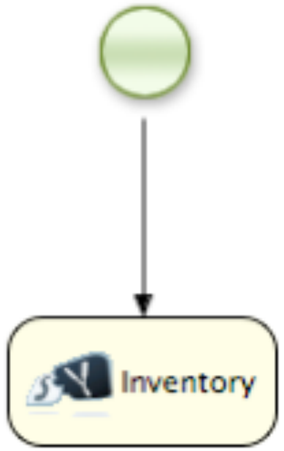
(after)



Widgets We Will Use



Invoke Inventory Service



Markers | Properties | Servers | Data Source Explorer | Snippets | JUnit

Property	Value
Id	8
InputMessageVariable	
MetaData	{height=48, width=100, UniqueId=_8, y=145, x=259}
Name	Inventory
On Entry Actions	
On Exit Actions	
OutputMessageVariable	itemAvailable
Parameter Mapping	{}
Result Mapping	{}
ServiceName	Inventory
ServiceOperationName	checkAvailability
Timers	
Wait for completion	true

Maps Result to Process Variable

Service Invocation Details

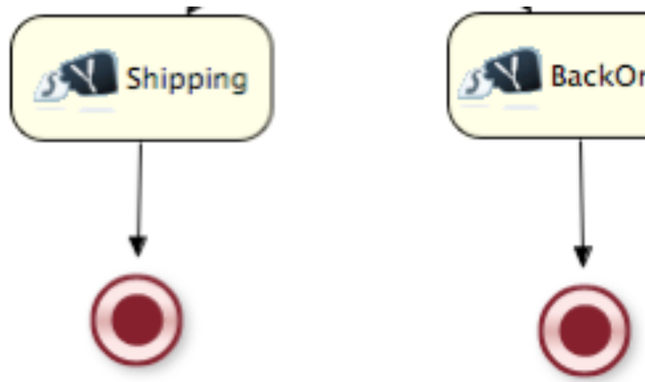
Invoke Inventory Service

- Properties Sheet for Inventory Service
  - Name : Inventory
  - OutputMessageVariable : itemAvailable
  - ServiceName : Inventory
  - ServiceOperationName : checkAvailability

Shipping and BackOrder Services

Markers | Properties | Servers | Data S

Property	Value
Id	9
InputMessageVariable	
MetaData	{height=48, width=10
Name	Shipping
On Entry Actions	
On Exit Actions	
OutputMessageVariable	
Parameter Mapping	{}
Result Mapping	{}
ServiceName	Shipping
ServiceOperationName	ship
Timers	
Wait for completion	true



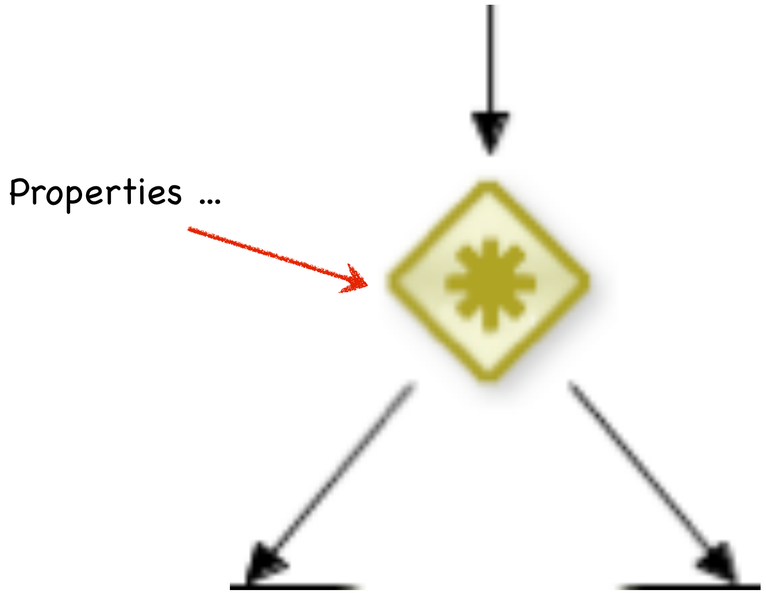
Markers | Properties | Servers | Data S

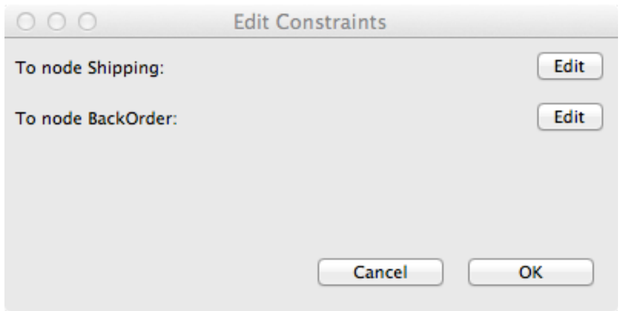
Property	Value
Id	10
InputMessageVariable	
MetaData	{height=48, width=10
Name	BackOrder
On Entry Actions	
On Exit Actions	
OutputMessageVariable	
Parameter Mapping	{}
Result Mapping	{}
ServiceName	BackOrder
ServiceOperationName	hold
Timers	
Wait for completion	true

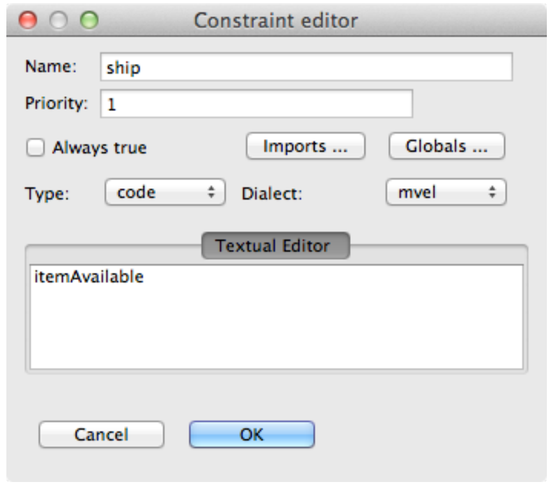
Shipping and BackOrder Services

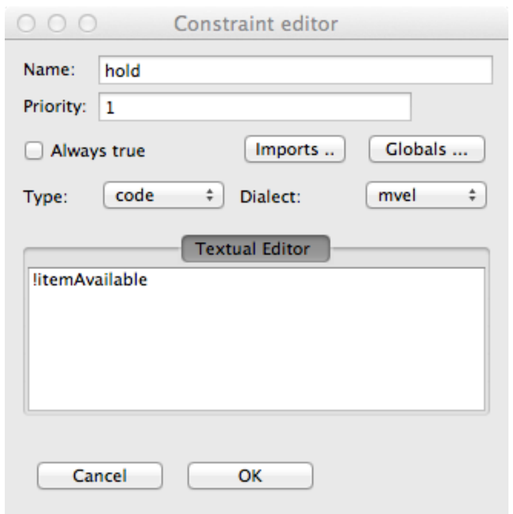
- Properties Sheet for Shipping Service
  - Name : Shipping
  - ServiceName : Shipping
  - ServiceOperationName : ship
- Properties Sheet for BackOrder Service
  - Name : BackOrder
  - ServiceName : BackOrder
  - ServiceOperationName : hold

Define Gateway









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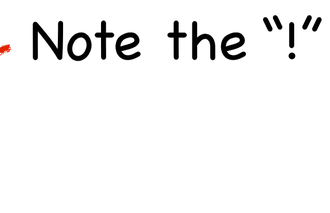
Configure Gateway

- Gateway Properties
  - Type : XOR
  - Constraints ...
- To node Shipping
  - name : ship
  - Type : code
  - Textual Editor : itemAvailable
- To node BackOrder
  - name : hold
  - Type : code
  - Textual Editor : !itemAvailable



Testing the Service

```
% cd workshop/labs/lab3
% mvn test
```

If your AS instance is running, please shut it down

```
###########################################
Thanks for your order, it has been shipped!
###########################################

            (snip ...)

###############################################
Insufficient quantity on hand - order has been placed on hold.
###############################################
```

Bonus Points

Deploy to AS7

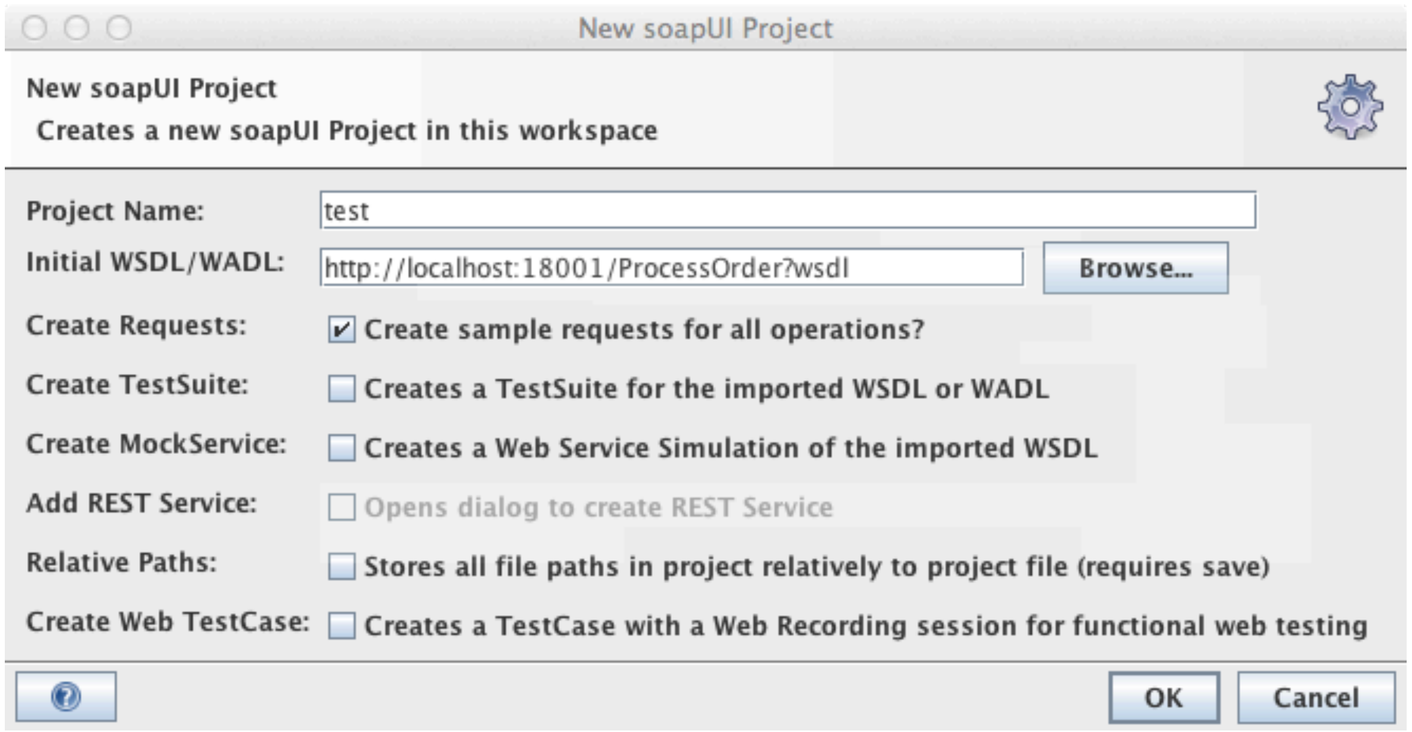
- Start the SwitchYard AS7 runtime

```
% cd switchyard-as7-0.2
% bin/standalone.sh
```

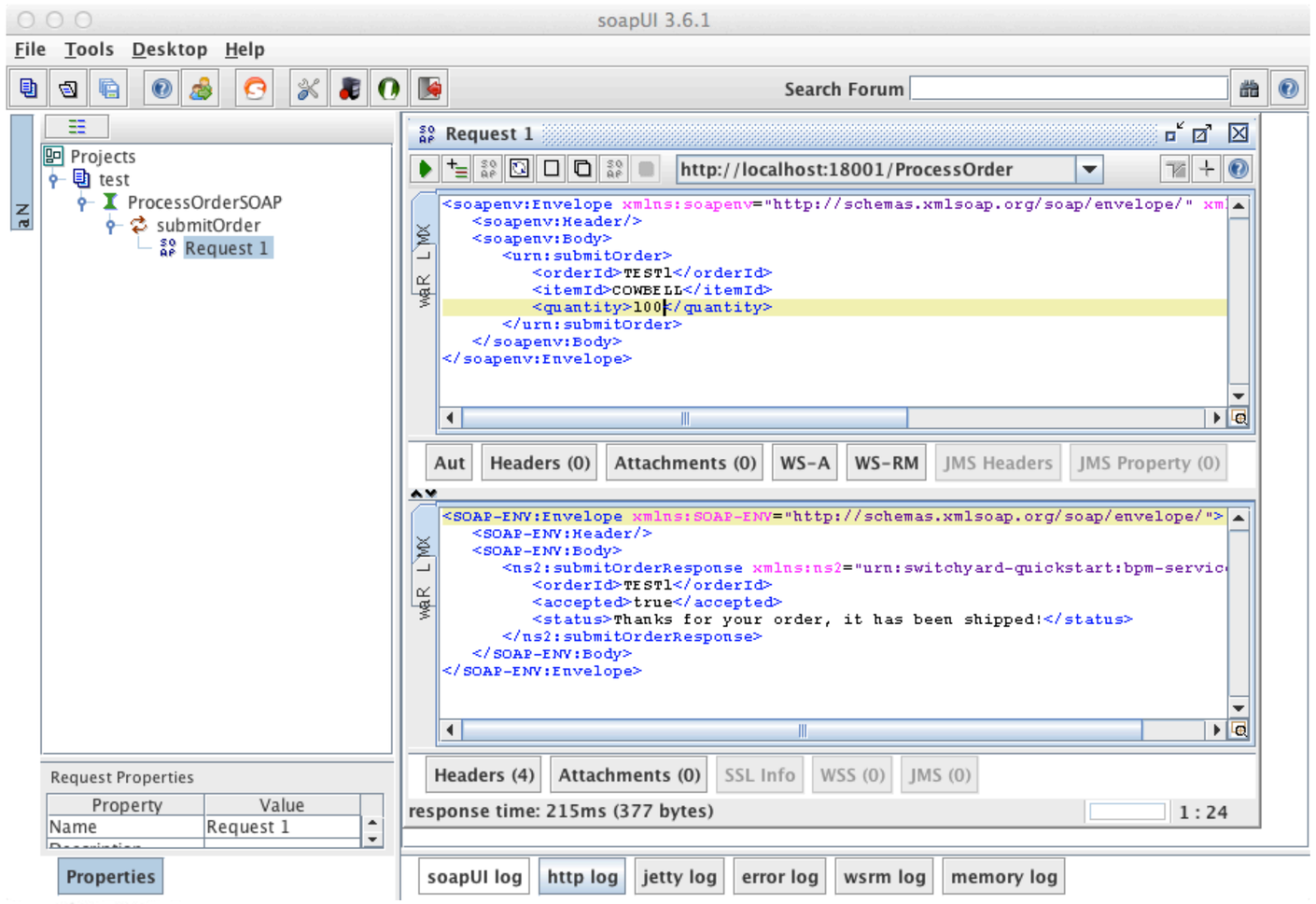
- Copy application to AS7 deployment directory

```
% cd labs/lab3
% cp target/lab3-1.0.0.jar ../../switchyard-as7-0.2/standalone/deployments/
```

Create new SoapUI Project



Send a Test Message



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