How to use Drools Guvnor 5.1 as a Service Repository Last Revised: March 11, 2010

Setup

This is how I created service_repository.xml. You do not need to re-create these steps (unless you wanted to create your own service_repository structure). You can skip to Adding Artifacts as Assets to Guvnor.

1)Install Guvnor on a separate JBossEAP instance (Note currently this only appears to work on EAP 4.3). Start server, logon to Guvnor, don't install samples.

2) Add category for Services, and under Service: Entity Services, Task Services, Utility Services, Orchestrated Services.

3) Next add categories for XML Schemas, Sample Messages, WSDLs, BPEL Process Definitions JBossESB Configurations, Smooks Transformations, Scenario Diagrams, Choreography Models, Deployment Archives, JMS Destinations, Java Source, Documentation, Other.



Revised March 11, 2010

Author: Jeff DelLong

4) Add statuses: Business Analysis, Architecture Modeling, Service Oriented Analysis, Service Oriented Design, Service Development, Service Testing, Deployed, Retired



5) Create a ServicesGlobal package for XSDs, sample messages, and other non service specific artifacts.

Author: Jeff DelLong



6) Export repository, unzip it, and re-name the xml file service_repository.xml.

000	JBoss Guvnor	
	() http://localhost:8080/drools-guvnor/org.drools.guvnor.Guvnor/Guvnor.html#	Google Q
Most Visited - Getting Started La	atest Headlines A	
JBoss Guvnor	+	
9 Drools		Welcome: admin [<u>Sign Out]</u>
Navigate	Find (x) Import Export (x)	
🖇 Browse 👘	Import/Export	
H Knowledge Bases +		
39 QA +	84	
Package snapshots +	Import from an xml file	
Administration –	pads/service_repository.xml Browse Import	
Status	Export to a zip file	
Archive Event Log	Export	
Liser permission		
Import Export		
.		
		Close all items

Adding Artifacts as Assets to Guvnor

Note - these are the steps I performed to test the capabilities of this repository structure by adding artifacts from the SOA Workshop PolicyQuote labs to Guvnor. If one was creating these artifacts over time (as with the labs) they might enter these artifacts in a similar, but not necessarily the same order. Also, the initial project location for some of the files might be different (e.g., sample messages, XSDs, and WSDLs).

You do not need to re-create these steps (unless you wanted to practice adding artifacts / assets to Guvnor). In this case you need to have created / imported all of the SOA Workshop lab projects. Otherwise you can skip to Checking out Assets.

1) Install Guvnor on a separate JBossEAB instance. Start server, logon to Guvnor, don't install samples.

2) Import service_repository.xml

3) Create Knowledge Package for each Service (e.g., PolicyQuoteProcessService, PolicyQuoteEntityService, PolicyQuoteCalculationService).



000	JBoss Guvnor	\bigcirc
	() http://localhost:8080/drools-guvnor/org.drools.guvnor.Guvnor/Guvnor.html#	😭 🔻 🖓 🕻 Google 🔍
Most Visited - Getting Started	Latest Headlines 🔊	
JBoss Guvnor	+	
Drools		Welcome: admin [<u>Sign Out]</u>
Navigate	Find	
🖇 Browse 💿	Name search	
Knowledge Bases Croate New ▼ Jar Packages PolicyQuoteCalculationService PolicyQuoteEntityService PolicyQuoteEntityService PolicyQuoteEntityService GrowteeSclobal Did faultPackage Jar Global Area	Find items with a name matching: Include archived assets in results: Search Enter the name or part of a name. Alternatively, use the categories to browse. Text search Attribute search	•
39 QA +		
Package snapshots +		(Marco - 10 (Marco -
Administration +		Close all items
Done		1

Author: Jeff DelLong

4) Open JBDS and open the Guvnor Repository perspective. Add a new Guvnor Repository location. Now open policyquote-models. Right click on the SuccessfulPolicyQuote.scn and choose Guvnor -> Add. Choose the PolicyQuoteProcessService as the folder to save to.

000				
Select folder: Select the target folder in the Guvnor repository				Guv
Select folder:				
<pre> B http://localhost:8080/drools-guvnor/org.drools.gu packages/ PolicyQuoteCalculationService/ PolicyQuoteEntityService/ e defaultPackage/ e ServicesGlobal/ PolicyQuoteProcessService/ </pre>	ivnor.Guvnor/webda	v		
?	< Back	Next >	Cancel	Finish

5) Go into Guvnor -> Knowledge Bases -> PolicyQuoteProcessService -> Other assets and open SuccessfulPollcyQuote. Show More Info, and Add Categories Services/Orchestrated Services and Scenario Diagrams. Save Changes.



6) Next, Change Status to BusinessAnalysis. Now highlight Browse -> Assets and look under Status Business Analysis and Category Scenario Diagrams. You should see the SuccessfulPolicyQuote.



7) Next add a few sample messages to the ServicesGlobal package. (You can actually Shift click the entire set of sample messages and right click add to add them all at once.

8) Once they have been added, open them up and add the Category Sample Messages.

000					IDees Cuumes			
	(JBOSS GUVHOR			0
	(http://localhost	::8080/drools-guvn	or/org.drools	.guvnor	.Guvnor/Guvnor.html#asset=551a2f5	53-0707-43ec-b981-7142e4da7241	Google ♦	٩)
Most Visited - Getting Started La	atest Headlines a							
JBoss Guvnor	+							
9 Drools								Welcome: admin [Sign Out]
Navigate	Find	Other assets, docu	XML, Propert	ies [Si 🗵	Category:Sample			
😚 Browse 📃	12 items. [refresh list]	[open selected] [open	n selected to sin	gle tab]	l			n
Create New 🔻	Name	Las	st Modified	Status	Package			
Assets	ScreditCheckReques	st Ma	r 10, 2010	Draft	ServicesGlobal			
🖽 🖉 Inbox	ScreditCheckRespor	nse Ma	r 10, 2010	Draft	ServicesGlobal			
By Status	S DrivingRecordRequ	Ma Ma	ir 10, 2010	Draft	ServicesGlobal			
Gervices	S DrivingRecordResp	Ma Ma	ir 10, 2010	Draft	ServicesGlobal			
XML Schemas Semple Messages	S DrivingRecordResp	oonseBad Ma	ır 10, 2010	Draft	ServicesGlobal			
B WSDLs	SelicyQuote	Ma	ir 10, 2010	Draft	ServicesGlobal			
BPEL Process Definitions	SelicyQuoteCalcula	ationReply Ma	r 10, 2010	Draft	ServicesGlobal			
Gostrand Diagrams	PolicyQuoteCalcula	ationRequest Ma	ir 10, 2010	Draft	ServicesGlobal			
Deployment Archives	PolicyQuoteinelligil	ble Ma	ir 10, 2010	Draft	ServicesGlobal			
JBossESB Configurations	SelicyQuoteReply	Ma	ir 10, 2010	Draft	ServicesGlobal			
Smooks Transformations	PolicyQuoteReques	st Ma	ir 10, 2010	Draft	ServicesGlobal			U
	S PolicyQuoteRespor	nse Ma	ir 10, 2010	Draft	ServicesGlobal			
H Knowledge Bases +								
32 QA +								¥
Package snapshots +								Ŧ
Administration +								Close all items

Done

Coope	
Nost Visited - Getting Started Latest Headlines & Dissos Guvnor + Welcome: admin [Sign Out] Navigate (Showing 12 tens out of 12. (refresh list] (pons selected () goen sele	
Image: Second	
Welcome: admin [590.0x1] Navigate Find Other assets, docu in SuccessfulPolicyQu in SatusBusiness Ant in Category:Scenario XML, Properties In Welcome: admin 12. (refresh list) gene selected () gene selec	
Navigate Kind Other assets, docu × SuccessfulPolicyQu × StatusBusiness Ant × Category:Scenario × XML, Properties × % Browlere * Showling 12 items out of 12. (refresh list) (open selected () copen selected	
Sourcessaruinoi que a sourcessaruinoi q	
V divide a Barer Stowing 12 items out of 12. (refresh list) (open selected) (open selected) is single tab)	
The Name And	
CreditCheckRequest mail to 2010 Data	
B BelcyQuoteCalculationService	
H → PolipQuateEntralSyService DrivingRecordReguest Mar 10, 2010 Draft Draft	
Der Service@lobal Der VringRecordResponse Mar 10, 2010 Draft	
Buliness und assets DrivingRecordResponseBad Mar 10, 2010 Draft	
(⊕ ¹ technical rule assets ∮ PolicyQuote Mar 10, 2010 Draft	
Configurations PolicyQuoteCalculationRepty Mar 10, 2010 Draft	
Model PolicyQuoteCalculationRequest Mar 10, 2010 Draft	
PolicyQuoteinelligible Mar 10, 2010 Draft	
Z Ana. I operation of the assets, documentation PolicyQuoteRequest Mar 10, 2010 Draft	
B de de la construction de la co	
Choreagraphy - nolicyguate-models/SuccessfulPolicyQuate.scn - Ecline - //Liers/idelong/SQAWorkshon/software/workspace	
S Navigator 8	
B ≥ Creater Access Acc	reh.
Author; jeff	eived v
v ≥ guvornmo v Participant v V	5:34 PM
Peie-guvnorinfo Driver PolicyQuoteProcessSenice DrivingRecordService CreditCheckSenice Policy W	5:30 PM 5:30 PM
V Credit CheckRequest.xml 2, 2010-03-10716:37:56 Marciana link	5:11 PM
Credit-CheckResponse.xml 2, 2010-03-107115-54:11	4:55 PM
V DrivingRecord Reports.wit 2, 2010-03-1011-05-413 Send	3:42 PM
DrivingBeordrResponseBalt.xml 2, 2010-03-10116 Seceive	3:29 PM 3:10 PM
V Forky dove Xml 2, 2010-03-10 15:500 V Forky dove Xml 2, 2010-03-10 T16 V Forky dove Xml 2, 2010-03-10 V Forky dove Xml 2, 2010-0	4:53 PM
PolicyQuoteCalculationRequest.xml 2, 2010-03-10"	4:53 PM 3:55 PM
N [*] PolicyQuotenelligible.xml 2, 2010-03-10716.56.05 Neccord State Neccord State Neccord State Neccord State	3:16 PM
PolicyQuoteRequest.xml 2, 2010-03-10T16:55:09	2:04 PM 1:57 PM
DY PolicyQuotetspons.xml 2, 2010-03-10716-56:09	1:34 PM
🖹 project 🖉 Scenario	12:19 PM 12:12 PM
Wroin-Yquote.com BendurealtLneckRequest(reditCheckBequest)	12:01 PM

9) Next add the PolicyQuote.cdm file into the PolicyQuoteProcessService in Guvnor.



10) Open the PolicyQuote.cdm in Guvnor, you will find it in the Other assets folder, and add the categories Services/Orchestrated Services and Choreography Model. Change the Status to Architectural Modeling and Save and close.

11) Next add the PolicyQuoteRequest.xsd, PolicyQuoteResponse.xsd, PolicyQuoteFault.xsd, and PolicyQuoteBase.xsd into Guvnor into the Service. Note adding xsd files will cause Eclipse to report errors; these can be ignored.

12) Open in Guvnor, you will find it in the Other assets folder. Add the category XML Schemas and the Status Service Oriented Design.

00				JBoss Guvnor		\Box
	() http://localhost:8080/drools-	guvnor/org.drools.g	uvnor.Guvnor/	Guvnor.html#asset=d8	2277cd-420f-43fc-996e-f9fbcb274196	Google Q
Most Visited - Getting Started La	atest Headlines බ					
JBoss Guvnor	+					च
Drools						Welcome: admin <u>(Sign Out)</u>
Navigate	Find XML, Properties	[Si 🗵 Other assets, do	cu 🗵 Catego	ry:XML Sc		
🖇 Browse 📃	4 items. [refresh list] [open selected] [open selected to single t	ab]			0
Create New 🔻	Name	Last Modified S	tatus	Package		
Assets	policyQuoteBase	Mar 10, 2010 S	ervice Oriented E	ServicesGlobal		
Inbox	SpolicyQuoteFault	Mar 10, 2010 S	ervice Oriented E	ServicesGlobal		
By Status	policyQuoteRequest	Mar 10, 2010 S	ervice Oriented E	ServicesGlobal		
G G Services	policyQuoteResponse	Mar 10, 2010 S	ervice Oriented E	ServicesGlobal		
Entity Services Task Services						
Utility Services						
XML Schemas						
B Sample Messages						
BPEL Process Definitions						
🕀 🚍 Scenario Diagrams						
Choreography Models Deployment Archives						
H JMS Destinations						
JBossESB Configurations Smooks Transformations						
						Ĩ.
H Knowledge Bases +						
39 QA +						A V
Package snapshots +						Close all items
Administration +						Close air iteriis

13) Next add the PolicyQuoteProcess service bpel process definition to Guvnor in as part of the PolicyQuoteProcessService.

14) Open in Guvnor, you will find it in the Other assets folder (not sure why it did not wind up under Processes). Add the categories Services/Orchestrated Services and BPEL Process Definition. Change the Status to Service Development and Save and close.

\varTheta \ominus 🕀				JBoss Guvnor			\Box
	(http://localhost:8080/dro	ools-guvnor/org.droo	ls.guvnor.Guvnor/	Guvnor.html#asset=	f4f8d9c6-cdfb-40cd-9dc1-8b4b2a82556	🖌 📩 🔹 🖓 🕻 Google	٩)
Most Visited - Getting Started La	test Headlines a						
JBoss Guvnor	+						T,
Drools							Welcome: admin [Sign Out]
Navigate	Find (X) Category	BPEL P					
🖇 Browse 📃	1 items. [refresh list] [open selected	ed] [open selected to sin	gle tab]				n
Create New 🔹	Name	Last Modified	Status	Package			
Assets	SelicyQuoteProcess	Mar 10, 2010	Service Developme	PolicyQuoteProces			
🕀 🧔 Inbox							
By Status							
G G Services							
Entity Services							
Task Services Utility Services							
Orchestrated Services							
XML Schemas Sample Messages							
B WSDLs							
BPEL Process Definitions							
Choreography Models							
Deployment Archives							
JMS Destinations							
H Smooks Transformations							
							J
H Knowledge Bases +							-
* QA +							×
Package snapshots +							Close all items
Administration +							

15) Next add the PolicyQuoteProcessArtifacts.wsdl, PolicyQuoteProcessService.wsdl, and DrivingRecordCallbackService.wsdl to the PolicyQuoteProcessService in Guvnor. Open these assists in Guvnro and categories Services/Orchestrated Services and WSDL. Change the Status to Service Development and Save and close. Note adding wsdl files will cause Eclipse to report errors; these can be ignored.

16) Next open the PolicyQuoteEntityService in JBDS. Add the jboss-esb.xml and deployment.xml into thePolicyQuoteEntityService in Guvnor.

17) Open in Guvnor, you will find these newly added files in the XML, Properties folder. Add the categories Services / Entity Services and JBossESB Configuration and the Status Service Development.

18) Next add the PolicyQuoteConfigSmooks.xml, PolicyQuoteReplyConfigSmooks.xml, Add PolicyQuoteEntity.jar and PolicyQuotePersistanceAction.java into the PolicyQuoteEntityService in Guvnor. Add Task.java into ServicesGlobal.

19) Open in Guvnor, you will find these newly added files in the XML, Properties folder of the PolicyQuoteEntityService and ServiceGlobal. Add the categories Services / Entity Services and SmooksTransformation, Deployment Archive, or Java Source, and the Status Service Development. Note that PolicyQuoteEntity.jar is under the Model folder.

20) Next open the PolicyQuoteCalculationService in JBDS. Add the jboss-esb.xml and deployment.xml into thePolicyQuoteCalculationService in Guvnor.

21) Open in Guvnor, you will find these newly added files in the XML, Properties folder. Add the categories Services / Task Services and JBossESB Configuration and the Status Service Development.

22) Next add the policyquotecalculation.drl, PolicyQuoteCalculationConfigSmooks.xml and PolicyQuoteCalculationReplyConfigSmooks.xml, Policy.java, and Driver.java into the PolicyQuoteCalculationService in Guvnor.

23) Open in Guvnor, you will find these newly added files in the XML, Properties folder. Add the categories Services / Task Services and SmooksTransformation or Java Source and the Status Service Development. The policyquotecalculation.drl will be in the Technical rule assets folder. Open it and add the categories Services / Task Services and the Status Service Development.



24) Open the PolicyQuoteProcessService project in JBDS. Add CreditCheckService.wsdl and DrivingRecordService.wsdl to Guvnor in the ServicesGlobal package, and then add the PolicyQuoteCalcualtionService.wsdl and PolicyQuoteEntityService.wsdl to their respective packages in Guvnor. Open the packages in Guvnor and assign the appropriate categories and status.

25) AddCreditCheckService.esb and DrivingRecordService.esbl to ServicesGlobal by using the Create New -> File in Guvnor. Add the category DeploymentArchive and the Status Deployed.

26) Add policyquote-destinations.xml to ServicesGlobal by using the Create New -> File in Guvnor. Add the category JMS Destinations and the Status Deployed.

27) Export repository, unzip it, and re-name the xml file policyquote_service_repository.xml.

Checking out Assets

1) Install Guvnor on a separate JBossEAP instance. Start server, logon to Guvnor, don't install samples.

2) Import policyquote_service_repository.xml.

3) Start JBDS and create a new ESB Project named PolicyQuoteEntityService. Go into the META-INF folder and delete the jobs-esb.xml file.

4) Use the FIIe -> New -> Guvnor -> Resources from Guvnor and add the PolicyQuoteConfigSmooks.xml, PolicyQuoteReplyConfigSmooks.xml from the PolicyQuoteEntityService package to the esbcontent folder.

5) Next add the deployment.xml and jboss-esb.xml from the PolicyQuoteEntityService package to the META-INF folder.

6) Then add PolicyQuoteEntity.jar to the root of the project, and PolicyQuotePersistanceAction.java and Task.java (from ServicesGlobal) into a folder src/org/acme/insurance.

7) Repeat for PolicyQuoteCalculationService, placing the files into the correct folder.

8) Repeat for PolicyQuoteProcessServic placing the files in the bpel content folder.

Issues

1) This solution does not provide for setting the status or versioning of the service as a package (since Guvnor does not support package status or versioning).