

JBossESBRecipientList

JBossESB - JBossESBEIP - Recipient List (inc. both Static and Content Based Routing)

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Pattern Description

A recipient list inspects an incoming message, determines the list of desired recipients, and forwards the message to all channels associated with the recipients in the list.

Implementation

You can plug in other engines but by default we use JBossRules as our evaluation engine. JBossRules is deployed to the ESB by default in the jbrules.esb archive. We use an XPath construct to evaluate XML messages. To use XPath you need to reference the [XPathLanguage.dsl](#).

Configuration

We have both a content based router and a static router.

For the content based router (org.jboss.soa.esb.actions.ContentBasedRouter) the configuration of the action looks like:

```
...
<action class="org.jboss.soa.esb.actions.ContentBasedRouter" name="ContentBasedRouter">
  <property name="ruleSet" value="MyESBRules-XPath.drl"></property>
  <property name="ruleLanguage" value="XPathLanguage.dsl"></property>
  <property name="ruleReload" value="true"></property>
  <property name="destinations">
    <route-to destination-name="regular" service-category="recipientlistCategory1" service-name="regularService"></route-to>
    <route-to destination-name="extra" service-category="recipientlistCategory2" service-name="ExtraStaticListener"></route-to>
  </property>
</action>
...
```

For the static router () the configuration of the action looks like this:

```
...
<action name="routeAction" class="org.jboss.soa.esb.actions.StaticRouter">
  <property name="destinations">
    <route-to service-category="recipientlistCategory1" service-name="regularService" ></route-to>
    <route-to service-category="recipientlistCategory4" service-name="extraService1" ></route-to>
    <route-to service-category="recipientlistCategory5" service-name="extraService2" ></route-to>
  </property>
</action>
...
```

Attribute	Required	Description
ruleSet	yes	Reference to the rule set that will be used
ruleLanguage	no	Reference to a Domain Specific Language, can be XPathLanguage.dsl or your own custom language
ruleReload	no	false by default, if set to true it will hot-deploy updated rules.

destinations	yes	The name should be referenced in the ruleSet, while the service-category and service-name are used to lookup the right EPR in the registry.
object-paths	no	Specifies the place of the object in the message.

Note that JBossRules only deals with 'shallow' objects. So if in your rule you want to inspect an Order object which lives in the body of the message called "order", you will have specify adn object-path of "body.order".

More information

- Quickstarts:
 - [simple_cbr](#)
 - [fun_cbr](#)
 - [Content-Based Router config guide](#)
 - [eip.com](#)