JARDP (Plugin to integrate the ESB JPA into the JBoss ESB)

Content

integrators
part of Allstar Group

1. BUSINESS INTRODUCTION

JBossESB is the enterprise service bus of the JBoss Community. You can find this product on the web page http://www.jboss.org/jbossesb/

Configuration of instances in the JBossESB is based on implementing actions to do the required data transformations. There are many predefined actions to do these transformations.

JARDP is a plug-in to integrate functionalities of ESB JPA to the JBossESB. You can find the documentation to the ESB JPA on the web page http://www.integrators.cz/
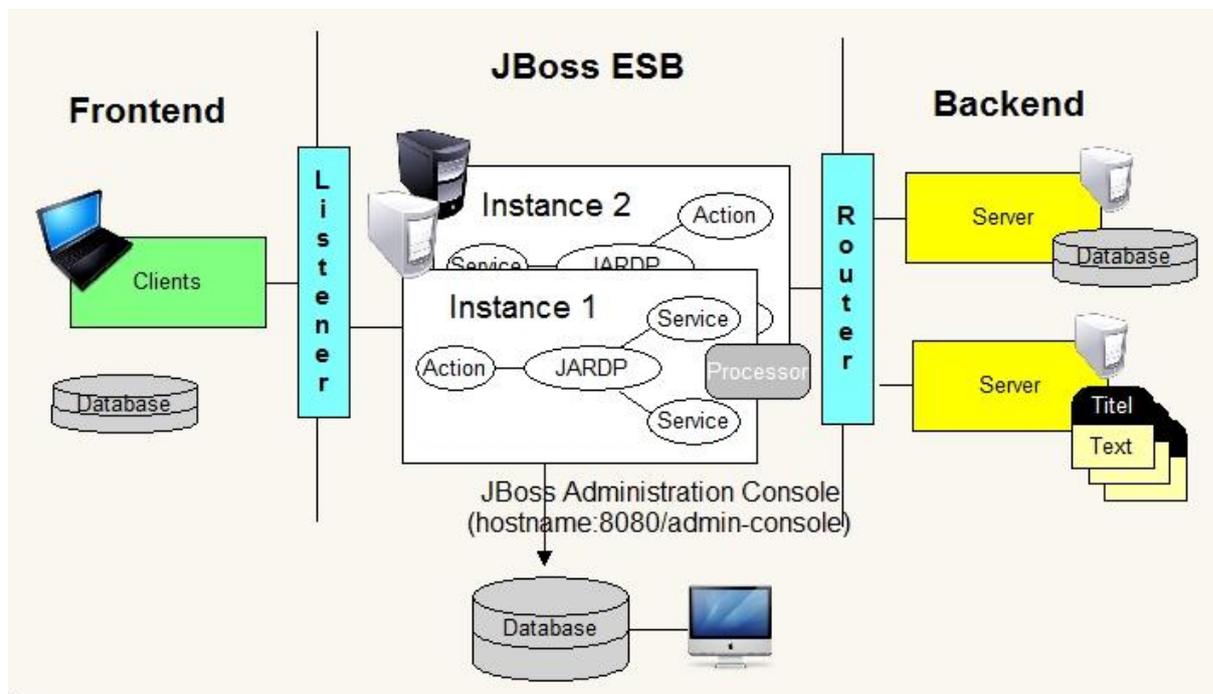

Figure 1 Scheme of JARDP integrated to the JBossESB

The JBossESB serves to read data from the inputs using the listeners, to transform data and to write data to the outputs using routers, or notifiers.
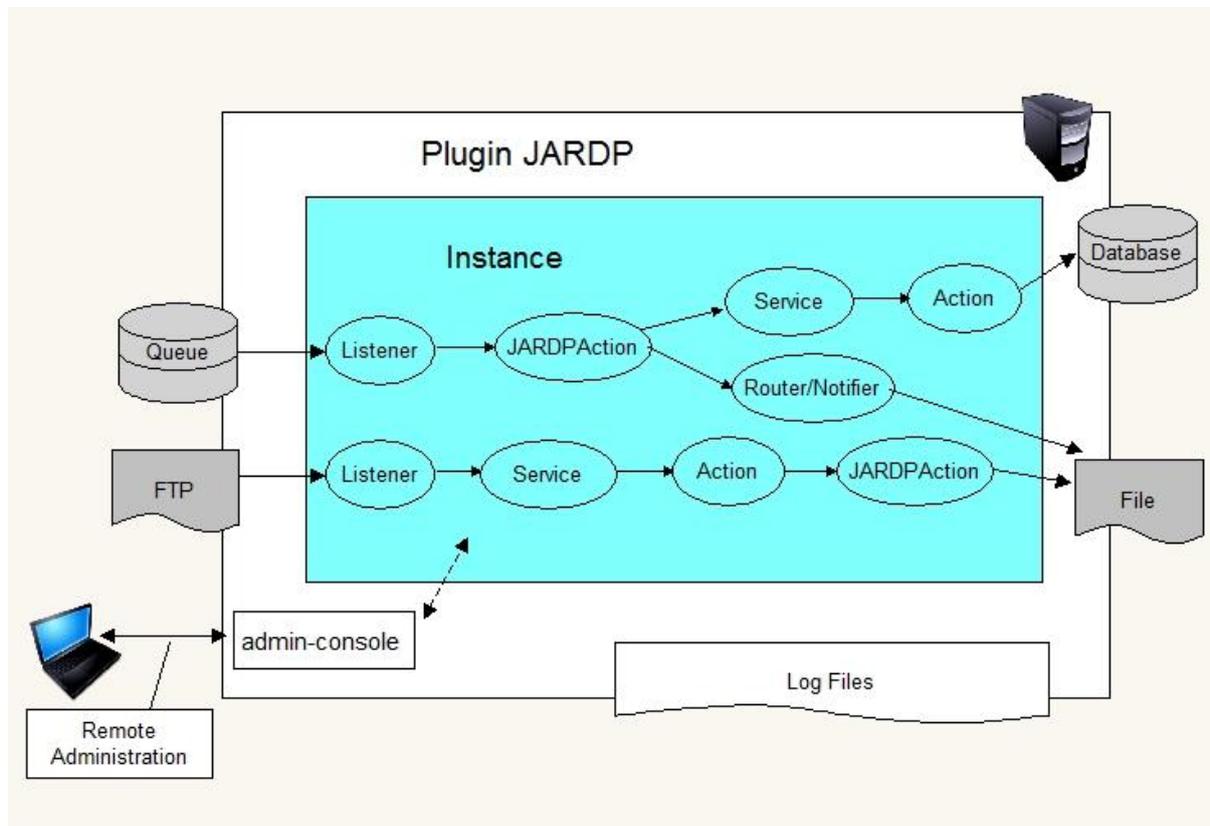
JARDP provides functionalities to read data from the inputs at scheduled times, or to transform data using the functionalities of the ESB JPA.

2. ARCHITECTURE OF JARDP IN THE JBOSSESB

JARDP can be integrated to an instance of the JBossESB in 2 ways:

➢ as the action to run a process of the ESB JPA, or to run a task of the ESB JPA

> as the scheduled listener to read data in the process of the ESB JPA, or to read data in the task of the ESB JPA

Actions and listeners are a part of services that configure the core of instance in the JBossESB.

If input data is read using a listener of the JBossESB, providers to read data are as the JBossESB offers. If input data is read using a module of the ESB JPA, modules to read data are as the ESB JPA offers.

If data is processed in the action of the JBoss ESB, actions to process and transform data are as the JBossESB offers. If data is processed in the modules of the ESB JPA, modules to process and transform data are as the ESB JPA offers.

Using the plug-in, both ways to read and process data can be combined.

The actions in the plug-in are:

> JARDProcessorPluginAction
> JARDProcessorTaskPluginAction

The scheduled listeners in the plug-in are:

> JARDProcessorScheduledPluginComposer

➢   JARDProcessorTaskScheduledPluginComposer

3. CONFIGURATION

Configuration for an instance of the JBossESB is read from a local file called jboss-esb.xml, and other related local files. Single actions and listeners can be modified using properties.

Properties to modify behaviour of the actions in the plug-in, or the scheduled listeners in the plug-in are described in the following table.

Property Key	Description
PluginName	name of the plug-in
PluginContextDirectory	context directory of the plug-in
log4jPropsFileName	name of log4j.properties file to configure log4J
ESBJPAProcessCfgFileName	name of configuration file to configure a process
ESBJPATaskCfgFileName	name of configuration file to configure a task
InputDataPackageKey	key of package with input data
OutputDataPackageKey	key of package for output data

3.1. Configuration of special modules

In the following table modules to call functionalities of the JBossESB in the plug-in JARDP are described

Module	Description
InvokeJBossServiceJAction	node to invoke an service in the JBossESB

3.1.1. Properties of InvokeJBossServiceJAction

In the following table properties of InvokeJBossServiceJAction are described.

Property	Description
JBossServiceName	name of the service to invoke
JBossServicesCategory	category of the service to invoke

4. ADMINISTRATION

JARDP is a part of an instance of the JBoss ESB. An instance of the JBossESB can be administered through the GUI that can be found on http://hostname:8080/admin-console.

5. SAMPLES

The following table provides links to samples in the basic distribution package. Theses samples you can find in the directory samples of the distribution package.

Sample	Basic Description
esbjpa2jbossservice	This sample show how to call a service from the plug-in JARDP
scheduledprocess2jbossesb	This sample shows how to integrate a process of the ESB JPA into the JBossESB
scheduledtask2jbossesb	This sample shows how to integrate a task of the ESB JPA into the JBossESB