PEtALS-BC-Filetransfer

This document explain how to install configure and use the petals-bc-filetransfer JBI component.

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PEtALS-BC-FILETRANSFER

The FileTransfer component is a Binding Component (BC). It is based on the PEtALS CDK 1.4.1.

This component is used to :

- Send files to an endpoint. In this mode (consumer), the component polls a directory.

  When new files are available in this directory, a new JBI message is created, files are placed into message attachment or as message payload, and message is sent to a JBI endpoint.

- Write incoming JBI message content and attachements to files.
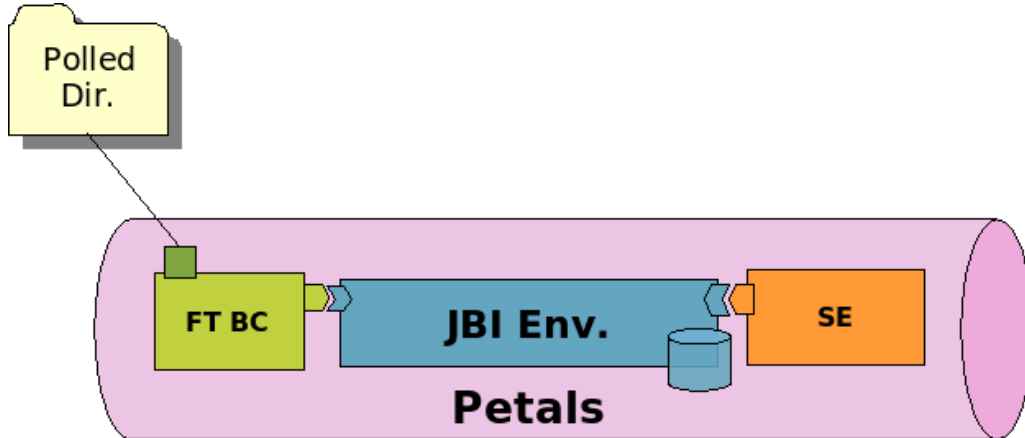
Chapter 1. Component Configuration

There are no specific component configuration values.

Chapter 2. Service Configuration

2.1. Sending files

CONSUME SERVICE : Send file(s) to a JBI service

Figure 2.1. Consumes a JBI service on new file(s)

2.1.1. Service Unit descriptor

```xml
<?xml version="1.0" encoding="UTF-8"?>
<jbi:jbi xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
    xmlns:petals="http://petals.ow2.org/extensions"
    xmlns:jbi="http://java.sun.com/xml/ns/jbi"
    xmlns:company="http://company.com"
    version="1.0">
<jbi:services binding-component="true">
  <jbi:consumes interface-name="company:InsertMarche"
   service-name="company:OrchestrationService"
   endpoint-name="EIPOrchestrationEndpoint">
   <petals:mep>in-out</petals:mep>
   <petals:operation></petals:operation>
   <petals:params>
    <petals:param name="filetransfer.working-directory">c:\Temp\company</petals:param>
    <petals:param name="filetransfer.waste-directory">c:\Temp\waste</petals:param>
    <petals:param name="filetransfer.polling-period">3000</petals:param>
    <petals:param name="filetransfer.exchange-data">source</petals:param>
   </petals:params>
  </jbi:consumes>
 </jbi:services>
</jbi>
```

Table 2.1. Service-unit attributes to provide services

Attribute	Description	Default	Required
consumes	Name of the JBI service that will be called into the JBI environment. Only the interface (Qname) name can be provided (the container will choose a ServiceEndpoint for this interface), or you can only set service (qname) and endpoint (string) names, without the interface name.		Yes

Table 2.2. Extensions

Attribute	Description	Default Value	Required
filetransfer.working directory	Address of the polled directory. It is recommended to create absolute address.		Yes
filetransfer.polling period	The-directory polling period in ms.	1000	No
filetransfer.waste directory	The directory used to save files returned by foreign JBI endpoint	$INSTALL/ work	No
filetransfer.file name	Used to add a file in the outgoing attachment.	waste.xml	No
filetransfer.exchange data	Send the file(s) as JBI attachament and/or put the file content as JBI message payload. Possible values are 'source','attachments', 'both'.		Yes
mep	The MEP to use for the message exchange. Possible values are 'InOnly', 'InOptionalOut', 'InOut', 'RobustInOnly'	InOnly	Yes
timeout	The send timeout in ms	[empty string]	No
operation	Operation to invoke on the foreign JBI endpoint		Yes

2.1.2. Usage

If you want to send files to a JBI endpoint, put files in the directory defined by the `address` element. The filetransfer component will detect new files in the directory and then send them to the service and endpoint defined in the consumes section of the service unit descriptor.
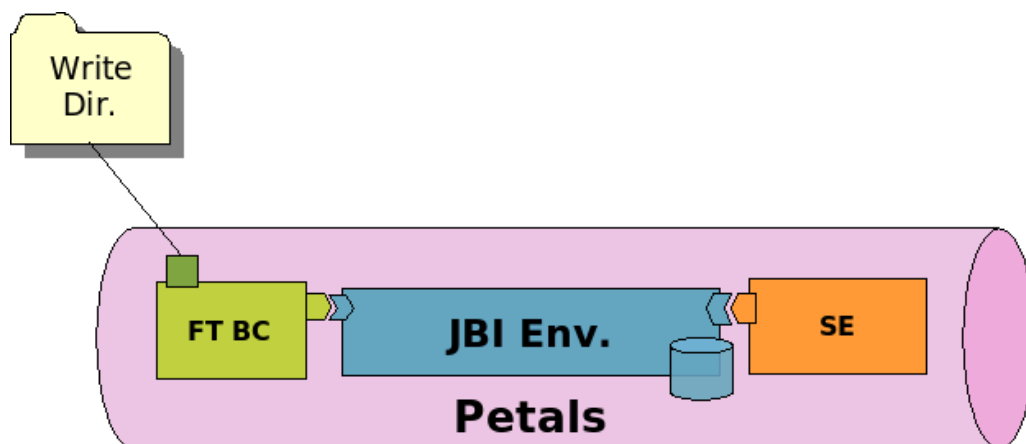
In the previous code snippet, when '.xml' files are detected in the `/home/petals/`

`filetransfer/scandirectory` directory, a message exchange will be created, its operation will be set the 'zipfile' and message will be sent to the 'ZipEndpoint'.

2.2. Receiving files

PROVIDE SERVICE : Write JBI messages content and attachments to directory

Figure 2.2. Provides a JBI service to write JBI messages into directory

2.2.1. Service Unit descriptor

```
<?xml version="1.0" encoding="UTF-8"?>
```

```
<jbi:jbi xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
    xmlns:petals="http://petals.ow2.org/extensions"
    xmlns:jbi="http://java.sun.com/xml/ns/jbi"
    xmlns:company="http://company.com"
    version="1.0">
 <jbi:services binding-component="true">
  <jbi:provides interface-name="company:InsertMarche"
   service-name="company:OrchestrationService"
   endpoint-name="EIPOrchestrationEndpoint">
   <petals:params>
    <petals:param name="filetransfer.working-directory">/company/temp</petals:param>
    <petals:param name="filetransfer.polling-period">1000</petals:param>
    <petals:param name="filetransfer.exchange-data">both</petals:param>
    <petals:param name="filetransfer.file-name">roro.txt</petals:param>
   </petals:params>

 </jbi:provides>
 </jbi:services>
</jbi:jbi>
```

Table 2.3. Service Unit attributes to provide services

Attribute	Description	Default	Required
provides	Name of the JBI service that will be activated to expose the directory into the JBI environment. interface (qname), service (qname) and endpoint (string) name are required.		Yes
filetransfer.working-directory	The name of the local host directory to write incoming JBI message to. It is recommended to create absolute address.		Yes
filetransfer.polling-period	The directory polling period in ms.	1000	No
filetransfer.exchange-data	Send the file(s) as JBI attachament and/or put the file content as JBI message payload. Possible values are 'source','attachments', 'both'.		Yes
filetransfer.file-name	Used to add a file in the outgoing attachment.	content.xml	No

2.2.2. Usage

When deploying a service unit like in the previous code snippet, all the JBI messages received on the TestOnJBIMessageService service will be analyzed and will produce new files in the `/home/petals/filetransfer/receive` directory defined in the extensions.

Chapter 3. Samples

See the following Service Assemblies samples that illustrate the configuration of this component :

http://wiki.petals.objectweb.org/xwiki/bin/download/Components.Binding/FileTransfert/sa-consumes-ftpbc.zip

http://wiki.petals.objectweb.org/xwiki/bin/download/Components.Binding/FileTransfert/sa-provides-ftpbc.zip