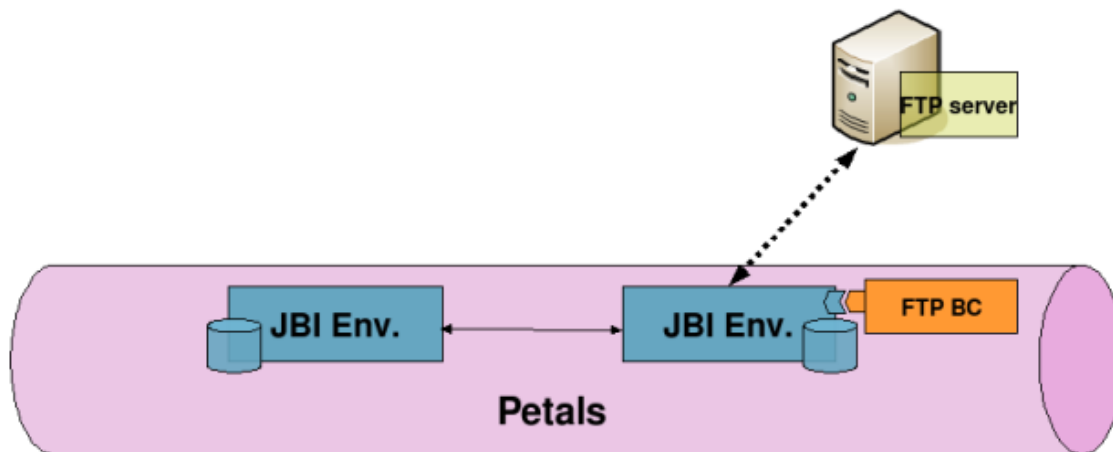


[FTP Binding Component \(petals-bc-ftp\)](#)

FTP Binding Component (petals-bc-ftp)

Introduction

In order to be able to put, get, or detect files on a ftp server, we have developed a ftp binding component.



Configuration

Service Unit configuration The component is configurable with its jbi descriptor file. You can:

- Define the ftp server you want to access by setting its IP address or DNS name
- Define the port number the server listen to. (If the port is not specified, the 21 port will be automatically be used)
- Specify the user you want to use to connect
- Specify the password corresponding to this server

The PEtALS extension are defined in the JBI.xml file of the component like this:

```
<extensions:extensions> <keyvalue:extension> <ftp.server>IP or DNS name</ftp.server>  
<ftp.login>login</ftp.login> <ftp.password>password</ftp.password> <ftp.port>21</ftp.port>  
</keyvalue:extension> </extensions:extensions>
```

WSDL location As described in the CDK documentation, you can define the wsdl location URL in the service unit extensions (Note that it is only possible in a provider SU):

```
<extensions:extensions> <keyvalue:extension> <address>EXTERNAL WS URL</address> <wsdl>WSDL  
URL</wsdl> </keyvalue:extension> </extensions:extensions>
```

Downloading, putting, and detecting files on the ftp server

As a binding component, you have to deploy service assemblies to be able to access a ftp server. Examples of service assemblies are provided as attachments (see below). Features The FTP BC has three possible operations :

- detect : to detect if a file exists on the server or if a directory contains files.
- put : to send a file to the server
- get : to download a file from the server.

Detecting a file on the ftp server : the "detect" operation

ObjectWeb - Petals - Components.Binding - FTP

When the FTP BC receives a message with operation is "detect", it will try to retrieve the "remote" properties in this message. If these properties are not set, an error is sent back. If these properties are a file, the BC will detect if this file exists on the ftp server. If these properties are a directory, the BC will detect if this directory contains files or not. The detect operation accepts "InOut" and "InOutOptional" message exchange patterns. The message sent back can be:

```
<info>file(s) detected</info>
```

if the file has been detected or the directory contains at least one file.

```
<info>No file detected</info>
```

if the file has not been detected or the directory is empty.

Putting a file on the ftp server : the "put" operation

The remote properties of the incoming message contains the name under which the file will be uploaded on the ftp server. When the FTP BC receives a message with operation is "put", it will try to retrieve the "remote" properties in this message. If these properties are not set, an error is sent back. In the other case, it tries to put on the ftp server the file contained as attachment of the incoming message. The put operation accepts "InOut" and "InOutOptional" message exchange patterns, so no response message is sent back.

Downloading a file from the ftp server : the "get" operation

The "remote" properties of the incoming message contains the name of the file to download. When the FTP BC receives a message with operation is "get", it will try to retrieve the "remote" properties in this message. If these properties are not set, an error is sent back. In the other case, it will try to download the file. The detect operation accepts "InOut" and "InOutOptional" message exchange patterns. The message sent back is:

```
<info>attached file(s)</info>
```

The downloaded file is sent as attachment of the outgoing message.

FTP Service Assembly sample

The FTPClientServiceSA.zip file is a Service Assembly sample to connect to a ftp server. It has to be correctly configured to have valid ftp server connection parameters in the jbi.xml file.
FTPClientServiceSA.zip

Future work

- Add ftp connections pool

Changelog

Version 1.3

- first version of the ftp binding component

[FTP Binding Component \(petals-bc-ftp\)](#) (en)

Creator: xwiki:XWiki.mbedame Date: 2007/04/20 16:12

Last Author: xwiki:XWiki.nsalatge Date: 2007/07/13 10:50

Copyright (c) 2005-2006, [ObjectWeb Consortium](#) | Work licensed under a [Creative Commons Attribution-Share Alike 2.5 License](#)

