

CXF Example OSGi Blueprint

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Available as of Camel 2.8



Spring-DM vs. OSGi Blueprint

This example uses OSGi Blueprint for OSGi. There is another [CXF Example OSGi](#) that uses Spring-DM.

A simple example which receives web service calls (via a CXF consumer, using bean binding) and writes these requests into the file system. It's not a very useful use case, but the goal of this example is to show you how you can use the CXF consumer component in an OSGi environment with the OSGi HTTP service. If your target container is Apache Karaf or Apache ServiceMix, you can use PAX Web to setup and start an OSGi HTTP service. All Camel bundles using a Camel CXF consumer can use this HTTP service without needing to start individual Jetty instances. Another advantage is that all provided services can now share the same port.

This example is located in the `examples/camel-example-cxf-blueprint` directory of the Camel distribution. There is a `README.txt` file with instructions how to run it.

You will need to compile this example first:

```
mvn install
```

To run the example on Apache ServiceMix 4.x or Apache Karaf 2.x

1) launch the server

```
karaf.bat
```

Note for Karaf 2.2.x:

a) edit the `etc/jre.properties` file to add the following packages to be exported

```
jre-1.6=, \  
com.sun.org.apache.xerces.internal.dom, \  
com.sun.org.apache.xerces.internal.jaxp, \  

```

b) from the same file comment out the following exports already provided by the bundles that will be imported next: `javax.xml.bind*`, `javax.jws*`, `javax.xml.soap*`, `javax.xml.ws*`, `javax.activation`, `javax.annotation`, `javax.xml.stream*`.

2) Add features required

```
features:addUrl mvn:org.apache.camel.karaf/apache-camel/2.9.0/xml/features  
features:install war  
features:install cxf  
features:install camel-jaxb  
features:install camel-blueprint  
features:install camel-cxf
```

Note: Apache Camel 2.9.0 is being used above, but you should of course change the version number to the exact version of Camel being used.

3) Deploy the example bundle

```
osgi:install -s mvn:org.apache.camel/camel-example-cxf-blueprint
```

4) Verify that your service is available using the following url in the browser.
We assume you're using Karaf's default PAX Web configuration which uses port 8181 for http. If you would like to use another port or https, change the configuration in `$(KARAF_HOME)/etc/org.ops4j.pax.web.cfg`. The immediate extension after the hostname and port ("cxf" in the below URL) is configured via the `org.apache.cxf.osgi.cfg` file (Please see <http://team.ops4j.org/wiki/display/paxweb/Pax+Web> for more information on PAX Web).

```
http://localhost:8181/cxf/camel-example-cxf-blueprint/webservices/incident?wsdl
```

5) Start SOAPUI or use curl to send the request

Create a new project called camel-example-cxf-osgi

Point to the following url: <http://localhost:8181/cxf/camel-example-cxf-blueprint/webservices/incident?wsdl>

Open the request 1 (under camel-example-cxf-blueprint --> ReportIncidentBinding --> ReportIncident) and copy/paste a SOAP message generated by the unit test, for example:

ex :
--> and the message formatted that you copy in SOAPUI

```
<xml version="1.0" encoding="UTF-8"?>
<soap:Envelope xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/">
  <soap:Header />
  <soap:Body>
    <ns2:inputReportIncident xmlns:ns2="http://reportincident.example.camel.apache.org">
      <incidentId>111</incidentId>
      <incidentDate>2011-03-05</incidentDate>
      <givenName>Christian</givenName>
      <familyName>Mueller</familyName>
      <summary>Bla</summary>
      <details>Bla bla</details>
      <email>cmueller@apache.org</email>
      <phone>0049 69 1234567</phone>
    </ns2:inputReportIncident>
  </soap:Body>
</soap:Envelope>
```

If you use curl, you need to save the upper message in a file (data.xml) first and use the blow command to send the message.

```
curl -X POST -T data.xml -H "Content-Type: text/xml" http://localhost:8181/cxf/camel-example-cxf-osgi/webservices/incident
```

The response message looks like this

```
<soap:Envelope xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/">
  <soap:Body>
    <ns2:outputReportIncident xmlns:ns2="http://reportincident.example.camel.apache.org">
      <code>Accepted</code>
    </ns2:outputReportIncident>
  </soap:Body>
</soap:Envelope>
```

6) Check the file system

Check the folder "target/inbox/" in the Karaf base directory to see that a message has arrived.

See Also

- [CXF Example OSGi](#)
- [Examples](#)