

Integration of Connect:Direct z/OS with IBM Sterling B2B Integrator and File Gateway

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1. Introduction

This document's purpose is to give helpful information on how to integrate SFG with Connect:Direct z/OS.

- Used Sterling B2B Integrator, Sterling File Gateway version is 5.2.4 (Technical Sales B2B Integration Base Document Asset)
- Connect:Direct z/OS is downloaded at October 2015

2. Needed actions at Sterling B2B Integrator and File Gateway

1) Stop system

2) Backup current files and copy the new AFTExtensionsCustomer.properties file to both:

<install_dir>\container\Applications\aft\WEB-INF\classes\resources

<install_dir>\container\Applications\aft\WEB-INF\classes\resources\xml



AFTExtensionsCustomer.properties

3) Backup current files and copy the AFTExtensionsCustomer.xml file to both:

<install_dir>\container\Applications\aft\WEB-INF\classes\resources\xml

<install_dir>\container\Applications\aft\WEB-INF\classes\resources



AFTExtensionsCustomer.xml

4) Run <install_dir>\bin\setupfiles

5) Run <install_dir>\bin\deployer

6) Start system

7) Check in the FGExtensionCustomBP.bp process to B2B Integrator (FGExtensionCustomBP .txt is the process as text)



FGExtensionCustomBP.bp



FGExtensionCustomBP.txt

8) Create new community and enable the new protocol

9) Create partners in the new community to use the new protocol as Listening Consumer and select the newly added custom protocol.

10) At the new custom protocol you can select the business process to be called when a file arrives to the relevant consumer partner. After routing occurs the business process will be executed. There are Connect:Direct Server Adapter Services in B2B Integrator so you can leverage them to connect to Connect:Direct z/OS instance and execute actions there.

For every business for Connect:Direct Server Adapters there must be Connect Direct Server Begin Session and Connect Direct Server End Session:

```
<process name="Demo_JCL_Call">
  <sequence>
    <operation name="CD Server Begin Session Service">
      <participant name="CDServerBeginSession" />
      <output message="CDServerBeginSessionServiceTypeInputMessage">
        <assign to="LocalCDNodeName">SFGCDNODENAME</assign>
        <assign to="RemoteCDNodeName">MAINFRAMECDNODENAME</assign>
        <assign to="RemoteUserId">MAINFRAMEUSER</assign>
        <assign to="RemotePasswd">MAINFRAMEPASSWORD</assign>
        <assign to="." from="*" />
      </output>
      <input message="inmsg">
        <assign to="." from="*" />
      </input>
    </operation>
    <sequence>
      //THE SERVICE NEEDED WILL BE INSERTED HERE
      <operation name="CD Server End Session Service">
        <participant name="CDServerEndSession" />
        <output message="CDServerEndSessionServiceTypeInputMessage">
          <assign to="." from="*" />
        </output>
        <input message="inmsg">
          <assign to="." from="*" />
        </input>
      </operation>
      <onFault>
        <sequence name="Sequence End">
          <operation name="CD Server End Session Service">
            <participant name="CDServerEndSession" />
            <output
message="CDServerEndSessionServiceTypeInputMessage">
              <assign to="." from="*" />
            </output>
            <input message="inmsg">
              <assign to="." from="*" />
            </input>
          </operation>
        </sequence>
      </onFault>
    </sequence>
  </sequence>
</process>
```

3. RunJob Sample

Sample 1:

```
<operation name="CD Server Run Job Service">
    <participant name="CDServerRunJob" />
    <output message="CDServerSubmitServiceTypeInputMessage">
        <assign
to="Sysopts">BCVFSYP.PD0.JCL(CDTEST)</assign>
        <assign
to="SubmitUserId">MAINFRAMEUSER</assign>
        <assign to="SubmitPasswd">MAINFRAMEPASSWORD</assign>
        <assign to="." from="*" />
    </output>
    <input message="inmsg">
        <assign to="." from="*" />
    </input>
</operation>
```

Sample 2:

Connect Direct Run Job Service (keep in mind, that is arbitrarily chosen DMRTDYN utility so the SystemOpts may not make sense).

```
<operation name="Forward the Task to the Z/OS platform passing the
opaque PARM parameters">
    <participant name="CDServerRunTask" />
    <output message="CDServerRunTaskServiceTypeInputMessage">
        <assign to="Program">DMRTDYN</assign>
        <assign to="SystemOpts">C' ALLOC',C'
DSN=CSDQA1.O.TESTFILE.SMS2',C' DISP=(MOD,DELETE)', F'-1',C' UNALLOC',C'
DSN=CSDQA1.O.TESTFILE.SMS2'</assign>
        <assign to="SessionToken"
from="//BeginSessionResults/SessionToken/node()" />
        <assign to="." from="*" />
    </output>
    <input message="inmsg">
        <assign to="." from="*" />
    </input>
</operation>
```

4. RunTask Sample

```
<operation name="CD Run Task Call JCL">
  <participant name="CDServerRunTask"/>
  <output message="CDServerRunTaskServiceTypeInputMessage">
    <assign to="." from="*"></assign>
    <assign to="SessionToken"
from="//BeginSessionResults/SessionToken/node()"></assign>
    <assign to="SystemOpts">C' DSN=dataset_name(jcl_job), C' DISP=SHR'
</assign>
    <assign to="Program">DMRTSUB</assign>

  </output>
  <input message="inmsg">
    <assign to="." from="*"></assign>
  </input>
</operation>
```

5. Submit Sample

```
<operation name="CD Server Submit Service">
  <participant name="CDServerSubmit" />
  <output message="CDServerSubmitServiceTypeInputMessage">
    <assign
to="RemoteProcessFile">BCVFSYP.PD0.JCL(CDTEST)</assign>
    <assign to="RemoteProcessParms">CASE=YES</assign>
    <assign to="SubmitUserId">MAINFRAMEUSER</assign>
    <assign to="SubmitPasswd">MAINFRAMEPASSWORD</assign>
    <assign to="." from="*" />
  </output>
  <input message="inmsg">
    <assign to="." from="*" />
  </input>
</operation>
```


For more samples and information you can take a look at: https://www-304.ibm.com/support/knowledgecenter/SS3JSW_5.2.0/com.ibm.help.cd_svcs_adpts.doc/CD_Services_Introduction.html