Flat File adapter multiple endpoints lab

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What this exercise is about

The objective of this lab is to provide you with an understanding of how to configure WebSphere Adapters for Flat File V6.2 to send events to multiple endpoints using only one module.

Lab requirements

List of system and software required for the student to complete the lab.

- WebSphere Integration Developer V6.2 installed and updated with latest fixes
- WebSphere Process Server V6.2 Test Environment installed and updated latest fixes
- Extract Labfiles62.zip to your C:\ (your root) drive
- It is recommended to do at least one of the scenarios of the **Flat File adapter inbound lab** so that you can see the difference of having single (Flat File adapter inbound lab) and multiple (current lab) endpoints in your Module

What you should be able to do

At the end of this lab you should be able to:

- Import Flat File adapter RAR file into WebSphere Integration Developer
- Use External Service wizard to configure Activation Spec Properties, Resource Adapter Properties to generate Business Objects and other artifacts
- Deploy the adapter application onto WebSphere Process Server

• Test the deployed application and restore the server configuration

Introduction

This lab will guide you to use the multiple endpoints feature of the FlatFile Adapters. You will use the same module but run External Service wizard twice, giving similar Activation Specification properties except for the folder name to generate artifacts and send the events to two different endpoints.

Exercise instructions

Some instructions in this lab are Windows operating-system specific. If you plan on running the lab on an operating-system other than Windows, you will need to run the appropriate commands, and use appropriate files (.sh or .bat) for your operating system. The directory locations are specified in the lab instructions using symbolic references, as follows:

Reference variable	Windows location	AIX [®] or UNIX [®] location
<wid_home></wid_home>	C:\Program Files\IBM\WID62	
<wps_home></wps_home>	C:\ <wid_home>\runtimes/bi_v62</wid_home>	
<ffadapter_home></ffadapter_home>	<wid_home>\ResourceAdapters\FlatFile_6.2.0.0\deploy</wid_home>	
<lab_files></lab_files>	C:\Labfiles62	/tmp/Labfiles62
<workspace></workspace>	<lab_files>\FlatFileME\workspace</lab_files>	
<event_dir></event_dir>	<lab_files>\ FlatFileME \eventdir</lab_files>	
<archive_dir></archive_dir>	<lab_files>\ FlatFileME\archivedir</lab_files>	
<temp></temp>	C:\temp	/tmp

Windows users note: When directory locations are passed as parameters to a Java[™] program such as EJBdeploy or wsadmin, it is necessary to replace the backslashes with forward slashes to follow the Java convention. For example, replace C:\Labfiles62\ with C:/Labfiles62/

Instructions if using a remote server for testing

Note that the previous table is relative to where you are running WebSphere Integration Developer. The following table is related to where you are running the remote test environment:

Reference variable	Example: Remote Windows test server location	Example: Remote z/OS [®] test server location	Input your values for the remote location of the test server
<server_name></server_name>	server1	sssr011	
<was_home></was_home>	C:\Program Files\IBM\WebSphere\AppServer	/etc/sscell/AppServer	
<hostname></hostname>	localhost	mvsxxx.rtp.raleigh.ibm.com	
<soap_port></soap_port>	8880	8880	
<telnet_port></telnet_port>	N/A	1023	
<profile_name></profile_name>	AppSrv01	default	
<userid></userid>	N/A	ssadmin	
<password></password>	N/A	fr1day	

Instructions for using a remote testing environment, such as z/OS, AIX or Solaris, can be found at the end of this document, in the section "<u>Task: Adding remote server to WebSphere Integration Developer</u> test environment".

Part 1: Initialize the workspace and prepare for the lab

This part of the lab, you will start the WebSphere Integration Developer V6.2 with a new workspace and create required data source and database using the administrative console of WebSphere Process Server V6.2

- 1. Extract the provided Labfiles62.zip to your C:\ (root) drive, if you have not already done so. This will create the necessary subdirectory structure to complete the lab, and provides you with sample text files
- 2. Start the WebSphere Integration Developer V6.2 with a new workspace
 - ____a. Select Start > All Programs > IBM WebSphere Integration Developer > IBM WebSphere Integration Developer V6.2 > WebSphere Integration Developer V6.2
 - ____b. From the Workspace Launcher window, enter **<WORKSPACE>** for the Workspace field

🚯 Workspace Launcher	×
Select a workspace	
IBM WebSphere Integration Developer 6.2 stores your projects in a folder called a workspace. Choose a workspace folder to use for this session.	
	- I
Workspace: C:\Labriles62\HatHieME\workspace	Browse
Eopy Settings	
(?) OK	Cancel

_ 3. Click the button on the right corner to close the Welcome page and proceed with the workbench

Part 2: Configure two endpoints using External Service wizard

In this part of the lab, you will use the new External Service wizard, to configure adapter for the two endpoints inside the same module. You will use predefined Function Selector, and Data binding to keep it simple

- 1. Create the module: FFMultipleEndpointsModule
 - ____a. From the Business Integration window, right-click and select New > Module
 - ____b. From the New Module window, enter **FFMultipleEndpointsModule** for the Module Name

🥵 New Module	×		
Module Create a new business integration module. A module is a project that is used for development version management, organizing resources, and deploying to the runtime environment.	t, 🔁		
Module Name: FFMultipleEndpointsModule			
Location: C:/Labfiles62/FlatFileME/workspace/FFMultipleEndpointsModule	Browse		
I _ Open module assembly diagram			
Business integration modules can be deployed and run on WebSphere Process Server. They can contain many types of components, such as business processes, assembled together for the purpose of business integration.			

____ c. Ensure that the box next to **Open module assembly diagram** is checked and then click **Finish**

You will now see a new module, **FFMultipleEndpointsModule**, created from your Business Integration window

- Configure adapter for the first endpoint:
- 2. Start External Service from the main menu:
 - ____a. From the main menu, select File > New > External Service. This opens an External Service wizard that helps you obtain a service which establishes connectivity with other systems

Note: You must start External Service wizard from File menu for this exercise to get the folder option at the last screen of your External Service wizard.

____ 3. Select Adapters > Flat File under Available Types:

🧄 External Service 📃 🗖 🗙
External Service Select the type of service to create.
Eilter: type filter text
<u>A</u> vailable Types:
Adapters CICS EMail Flat File ftr FTP MS JD Edwards JDBC Description:
Creates a new service to access a file on a local file system.

- ___a. Click Next
- ____4. On the Select an Adapter screen, select IBM WebSphere Adapter for Flat Files (IBM : 6.2.0.0)

👍 External Service	×
Select an Adapter Select the adapter you want to use.	6
IBM WebSphere Adapter for Flat Files (IBM : 6.2.0.0)	_

- ___a. Click Next
- ___ 5. Adapter Import screen:

In this step, you will import a connector resource adapter archive from the file system into your WebSphere Integration Developer workspace. The adapter RAR file already exists under **<FFADAPTER_HOME**>.

- ____a. The default Connector file is selected which is shipped along with WebSphere Integration Developer
- ____b. Accept the default name for Connector project, **CWYFF_FlatFile**. You can change it to any other name, but for this lab, you can leave the default name.

____ c. For Target server, ensure that WebSphere Process Server v6.2 is selected

🚯 External Service		_ 🗆 🗙
Adapter Import		
Import a resource ad project for the adapt	apter archive (RAR) from the file system to create a connector er.	
Archive file:	C:\IBM\WID62\ResourceAdapters\FlatFile_6.2.0.0\deploy\CWYFF	FlatFile.rar
Connector project:*	CWYFF_FlatFile	
Target runtime:	WebSphere Process Server v6.2	•

___ d. Click Next

____6. From the 'Processing Direction' screen, select the radio button next to Inbound

Inbound Inbound
Inbodina processing passes data monintrie adapter to your service export.
C Outbound
Outbound processing passes data from your service import to the adapter.

___a. Click Next

- _____7. Service Configuration Properties screen:
 - ____a. Deploy connector project: ensure that the default option With module for use by single application is selected
 - ____b. Under Connection Configuration, click **Browse...** next to Event directory and select **<EVENT_DIR>** from the pop-up window:

Note: Alternatively, you can also replace the absolute directory path with WebSphere variables for the Event directory, Archive directory. Refer to '**Flat File adapter – Processing COBOL copy book files lab**' for more details on this new feature introduced in V6.2.

🚯 External Service		×
Service Configuration Pr For this service, specify security a	roperties and connection configuration properties.	5
Deploy connector project:	With module for use by single application	
Connection properties:	Use properties below	
Connection properties		
File system connection infor	mation	
Event directory:* C:\Labfi	es62\FlatFileME\eventdir 🛛 🔫	Browse

_____ c. Click **Advanced >>** to see the hidden advanced properties that can be configured:

<< Advanced
Event polling configuration
Event delivery configuration
Event persistence configuration
Advanced Properties
File archiving configuration
Bidi properties
Logging and tracing

You can click each of the configuration and review the options available under it. This lab guides you through some of the important and required configurations.

_____d. Event persistence configuration: In this part of the lab, you will not use any JNDI instead use adapter's in-memory representation of event table to store all the necessary information

Note: The Event recovery data source (JNDI) name is **not mandatory** from V6.1. Now, the adapter can use **in-memory representation** of event table to store all the necessary information. Adapter uses this feature when event database information is not configured during inbound event polling. This feature will not support the capability of handling "Ensure once-only event delivery".

____e. Advanced Properties:

1) Poll subdirectories in event directory: this is a new feature introduced in V6.2

Note: 'Poll subdirectories in event directory' is the new Boolean property added in V6.2. This property is used for recursive polling. Flat File adapter polls the given 'Event directory' and all the sub-directories present in the 'Event directory'. Refer to **'Log and confidential trace**' lab for more details on this new feature

____ f. File archiving configuration:

1) Archive directory: click Browse... and select <ARCHIVE_DIR>

Note: Alternatively, you can also replace the absolute directory path with WebSphere variables for the Event directory, Archive directory. Refer to '**Flat File adapter – Processing COBOL copy book files lab**' for more details on this new feature introduced in V6.2.

 File archiving configuration 		
Specify archive directory to archive	e processed inbound event files	
Archive directory:	C:\Labfiles62\FlatFileME\archivedir 🔫	Browse
File extension for archive:	original]
Success file extension for archive:	success]
Failure file extension for archive:	fail	

- ____g. Logging and tracing: Refer to 'Log and confidential trace lab' for more details on this new feature
- 8. Under Service properties, for Function selector options, select Use default function selector 'FilenameFunctionSelector' from the drop down list
- 9. For **Data format options**, select **Use default data binding 'FlatFileBaseDataBinding' for all** operations from the drop down list

Service properties				
F	unction selector options:	Use default function selector 'FilenameFunctionSelector'		
F	unction selector:	Not defined	Select	
D	ata format options:	Use default data format 'FlatFileBaseDataBinding' for all operations		
D	ata format:	Not defined	Select	

10. Check the box next to Change logging properties for wizard to view the output location of the log file and the logging level and click Next

Define emitME operation:

- _____ 11. From the Operations screen, click Add...
 - ____a. Add Operation window is opened. Select Generic FlatFile business object with business graph for the Data type and click Next

Operation properties	
Data type for the operation:	Generic FlatFile business object with business graph 🔽

You are back to Operation window and because you have chosen the data type with business graph, the Input type is populated as **FlatFileBG**.

- _____ 12. For **Operation name**, enter any name, for Ex: **emitME**
- 13. Accept the default selection, **Use suggested data format 'FlatFileBaseDataBinding'**, for **Data format options**

Operation name: ,	* emitME		
Specify the operation inp	but		
Input type;	FlatFileBG {http://www.ibm.com/xmlns/prod/websphere/j2	Browse, New	
Data format options	: Use suggested data format 'FlatFileBaseDataBinding'		
Data format:	Not defined	Select	

____a. Click Finish. The above defined operation, emitME, is populated under Operations list

tions:	
emitME ({http://www.ibm.com/xmlns/prod/websphere/j2ca/flatfile/flatfilebg}FlatFileBG) : void	[Add]
b. Click Next from Operations screen	
 From Generate Service screen, enter these: 	

____a. For Folder, enter Folder1

Note: Folder name should be different for the two endpoints that you are configuring for this scenario. So, make a note of the name that you are providing here so as not to give the same for the other endpoint that you will configure next.

____b. For Name, enter FFMultipleEndpointsInterface1

Properties for service				
Module:	FFMultipleEndpointsModule	New		
Namespace;	http://FFMultipleEndpointsModule/Folder1/FFMultipleEndpointsInterface1			
	Vse default namespace			
Folder:	Folder1	Browse		
Name: *	FFMultipleEndpointsInterface1			
Description:				

___ c. Click Finish

15. The Assembly diagram for FFMultipleEndpointsModule is opened with an Export component, FFMultipleEndpointsInterface1:

😵 FFMultipleEndpointsModule - Assembly Diagram 🛛			
Image: Palette Image: Palette Image: Palette			
	👔 📸 FFMultipleEndpointsInterface1		

____a. Save (Ctrl + S) changes to your assembly diagram

- Configure adapter for the second end point:
- ____16. Repeat the steps under **Configure adapter for the 'first' endpoint**, with these changes:
 - ____ a. From the 'Select an Adapter' (first screen of External Service wizard) screen, select IBM WebSphere Adapter for Flat Files (IBM: 6.2.0.0) > CWYFF_FlatFile. This uses already imported RAR file



Note: Folder name should be different in the configurations of two endpoints. All of the ActivationSpec properties should be similar for the two endpoints.

____b. From 'Generate Service' screen (the last screen of the External service wizard), enter these:

- 1) For Folder, enter Folder2
- 2) For Name, enter FFMultipleEndpointsInterface2

Note: You can give the same Name for both the export interfaces. To show you that they are two different exports in your assembly diagram, the lab uses two different names here for the export interfaces.

Properties for service			
Module:	FFMultipleEndpointsModule	New	
Namespace;	http://FFMultipleEndpointsModule/Folder2/FFMultipleEndpointsInterface2		
	☑ Use default namespace		
Folder:	Folder2	Browse	
Name: *	FFMultipleEndpointsInterface2		
Description:			

___ c. Click Finish

17. You will now see the second export component, FFMultipleEndpointsInterface2, in your assembly diagram:

😵 FFMultipleEndpointsModule - Assembly Diagram 🛛				
				
🕞 Favorites	TFMultipleEndpointsInterface2			
🔁 Components				
💁 Untyped Component				
💼 Human Task	FFMultipleEndpointsInterface1			
🛃 Java	<u>a</u>			

____a. Save (Ctrl + S) changes to your assembly diagram

Part 3: Add Java components

In this part of the lab, you will add two Java components and then wire the components to the existing Export interfaces. The Java components are your endpoints.

- _____1. Open the assembly diagram for FFMultipleEndpointsModule (if it is already not open)
 - ____a. From the business integration view, expand **FFMultipleEndpointsModule** and double click **Assembly diagram**
- 2. Drop a Java component to onto the assembly diagram
 - ____a. From the Palette, click Components to expand it

👌 😳 Palette
₿®. ©. "L @ ,
🔁 Favorites
🔁 Components
💁 Untyped Component
🔊 Human Task
🚰 Java
🔯 Mediaton Flow
👤 Proce Java
E Rule Group
State Machine

- ____b. Click **Java** and then click the empty space of FFMultipleEndpointsModule assembly diagram. This will place a new component, **Component1** on the assembly diagram.
- 3. Wire the FFMultipleEndpointsInterface1 to the Component1
 - ___a. Select the wire (1) icon from the Palette
 - ____b. Click FFMultipleEndpointsInterface1 and then click Component1 to wire them together
 - ____ c. Select **OK** for the Add Wire pop-up window:

🚯 Add Wire 🛛 🛛 🗙
This action will allow the target service to be used in other modules. The service interface from the export will be added to the target. Do you want to continue?
Always create without prompt
Cancel

____d. From the top of the Palette, click the **Selection Tool** icon () to get back to the normal cursor mode

____e. Right-click the empty space of the Assembly diagram and select **Arrange Contents Automatically** from the pop-up menu

Your assembly diagram for FFMultipleEndpointsModule will look like this:

😪 *FFMultipleEndpointsModule - Assembly Diagram 🛛				
👌 😳 Palette				
📐 🗨 🗨 🖒 🕼				
🔁 Favorites	TFFMultipleEndpointsInterface1	Component1		
🔁 Components				
💁 Untyped Component				
🔊 Human Task	FFMultipleEndpointsInterface2			
🛃 Java	<u>a</u>			

4. Follow instructions in steps 2 and 3 to wire **FFMultipleEndpointsInterface2** export to **Component2**:

😪 *FFMultipleEndpointsModule - Assembly Diagram 🛛				
 ↓ ♀ Palette ▶ ● ● ● ↓ ● ▶ Favorites 	FFMultipleEndpointsInterface2			
Components	•	•		
💁 Untyped Component				
🔊 Human Task	👔 📸 FFMultipleEndpointsInterface1			
🚾 Java		-		

- ____a. Save (Ctrl + S) and close Assembly diagram: FFMultipleEndpointsModule
- ____ 5. Add Java implementation to Component1
 - ____a. Right-click Component1 and select Generate Implementation from the pop-up menu
 - ____b. On the Generate Implementation panel, select default package, and click OK
 - _____c. Component1Impl.java is opened in Assembly editor. Scroll down to the method emitME that needs to be implemented and add this code under that method:

System.out.println("*******REACHED ENDPOINT 1**********);

- _____d. Save (Ctrl + S) and close Component1Impl.java
- 6. Similarly add this Java statement to **Component2**'s emitME method:

System.out.println("*******REACHED ENDPOINT 2**********);

- ____a. Save (Ctrl + S) and close Component2Impl.java
- ____7. Save (Ctrl + S) and close Assembly diagram: FFMultipleEndpointsModule

Part 4: Test the application

- 1. Start the WebSphere Process Server:
 - _____a. From the Servers view of WebSphere Integration Developer, select WebSphere Process Server v6.2 and hit 'Start the server' icon (2) from the context menu
 - ____b. Wait until the server Status shows as Started
- _____2. Add the project to the server
 - ____a. Right-click WebSphere Process Server v6.2 under the Servers view and select Add and remove projects... from the context menu
 - ____ b. From the Add and Remove Projects window, select FFMultipleEndpointsModuleApp under Available projects panel and click Add >
 - ____ c. You will now see the FFMultipleEndpointsModuleApp added to the Configured projects
 - _____ d. Click Finish and wait until the project is being published onto the server. The server is started in Debug mode if it is not already started before
 - ____ e. Click OK from Adding/Removing Projects pop-up. Optionally, you can select 'Do not show again' so that you are not required to do this next time when you start the test client
- ____ 3. Test the adapter application
 - _____a. Copy a test file to the <EVENT_DIR>. As the file is copied to the event directory, the same is picked up and processed by the adapter and then moved to the <ARCHIVE_DIR>

Note: For your convenience, a test file named METest.txt file can be found in <LAB_FILES>\FlatFileME.

- _____4. Verify your test results
 - ____a. Check your Server Logs view (or SystemOut.log file) for these successful messages:

🗞 Build Activities 🔲 Propert	ies 🚼 Problems 🛅 Server L	ogs 🛛 🖓	Servers 🔂 Asset Repositories 🖓		
		B -	🏇 • 👘 🖿 🖿 🕆 🖑 🐼 🔗 • 🖉 🚮		
Welcome WebSphere Pro	cess Server v6.2 at localhost 🖇	3			
Console (filtered): WebSphere Process Server v6.2 at localhost					
Show All Record Types (Hierarchical) > with only Server State and Error Contents (Page 1 of 1)					
Туре	🔺 Time	Thread ID	Contents		
🔲 🗐 Log message	Dec 16, 2008 11:26:22.953	000002ca	WSVR0200I: Starting application: FFMultipleEndpointsModu		
🔲 🗐 Log message	Dec 16, 2008 11:26:24.765	000002ca	WSVR02211: Application started: FFMultipleEndpointsModul		
🗖 📑 Log message	Dec 16, 2008 11:26:51.578	00000090	************REACHED ENDPOINT 1**********		
🔲 🗐 Log message	Dec 16, 2008 11:26:51.593	000000b8	**************************************		

Note: You should see the above two messages in any order. The file has been sent to the two endpoints (components) that you configured previously.

5. Now, check the **<ARCHIVE_DIR>** subdirectory which should contain an archive of the event file, with the same file name appended with year, month, date, system time, and success

Address 🛅 C:\Labfiles62\FlatFileME\archivedir				
Folders	×	Name 🔺	Size	Туре
🗆 🧰 FlatFileME		METest.txt.2008_08_21_14_38_49_296.success	1 KB	SUCCESS File

- _____6. Restore the Sever Configuration
 - ____a. Right-click WebSphere Process Server v6.2 under the Servers view and select Add and remove projects... from the context menu
 - ____b. Select FFMultipleEndpointsModuleApp under Configured projects and click < Remove
 - _____c. Click **Finish** after you see the application moved to Available projects. Wait until the application is being unpublished from the server

What you did in this exercise

In this lab, you started with importing the Flat File Adapter RAR file into your WebSphere Integration Developer new workspace. Then, used your WebSphere Process Server administrative console and configured it to create the Data source and data base required to complete this lab.

You made use of the External Service wizard available in WebSphere Integration Developer to specify Activation Spec Properties and Resource Adapter Properties which, after deploying onto the server, will generate Business Objects and other artifacts.

In the end you deployed and then tested the adapter application for pass-through test scenarios and two content specific (non pass through) test scenarios.

Task: Adding remote server to WebSphere Integration Developer test environment

This task describes how to add a remote server to the WebSphere Integration Developer test environment. This example uses a z/OS machine.

- _____1. Define a new remote server to WebSphere Integration Developer.
 - ____a. Right click the background of the Servers view to access the pop-up menu.
 - ___ b. Select New → Server.

Server State Status Image: State Status Image: State Synchronized	😚 Build Activities 🔲 Properties 🔀 Problems 👸 Server Logs 👫 Servers 🛛 🔥 Asset Repositories 🔅 🚺 Server 🖄 🖏 Server 🖄					
📅 WebSphere Process Server v6.2 at localhost 🗍 Started Synchronized	Server 🔺	State	Status			
170	📰 WebSphere Process Server v6.2 at localhost	🛼 Started	Synchronized			
New	Ne <u>w</u>	`	🕈 Server 🔪			
Open F3	Open	F3 T	VF			

- ____ c. In the New Server dialog, specify the remote server's host name, <HOSTNAME>.
- _____d. Ensure that the appropriate server type, 'WebSphere Process Server v6.2' or 'WebSphere ESB Server v6.2', is highlighted in the server type list

🚯 New Server	
Define a New Server Choose the type of server to	o create
Server's <u>h</u> ost name:	<.rtp.raleigh.ibm.com
Select the <u>s</u> erver type:	Download additional server adapters
type filter text	
Runs service projects on the V	Ilication Server v6.0 Ilication Server v6.1 Ilication Server v7.0 Server v6.2 tal v6.0 Server tal v6.1 Server tal v6.1 Server on WAS 7 test Server v6.2 WebSphere Process Server v6.2.
Server na <u>m</u> e:	WebSphere Process Server v6.2 at mvsxxx.rtp.raleigh.ibm.com
Server runtime environment:	WebSphere Process Server v6.2
	Configure runtime environments
0	< Back Next > Einish Cancel

___e. Click Next.

- _____f. On the WebSphere Server Settings page, leave the radio button for **Manually provide** connection settings selected, and select the box for SOAP
- ____g. Enter the correct setting (**<SOAP_PORT>**) for **Port** column
- ____h. If security is enabled on your server, select the box for 'Security is enabled on this server' and enter <USERID> for the User ID and <PASSWORD> for the password.

🚯 New Server					
WebSphere Server Settings Input settings for connecting to an existing WebSphere Application Server.					
WebSphere profile name;			Configure profiles		
Server connection types a O Automatically determin	nd administrat e connection s	ive ports ettings			
Manually provide conn Connection Type	ection settings	Default port	Description		
RMI SOAP	8880	2809 8880	Designed to improve communication with the server Designed to be more firewall compatible		
Run server with resource	es within the \underline{v}	vorkspace			
Current active authenti	iis server ication setting:	5:			
User <u>I</u> D:	ssadmin				
Pa <u>s</u> sword:	•••••				
WebSphere server name:	server1				
Test Connection					
0		< [ack <u>N</u> ext > <u>Fi</u> nish Cancel		

- ____ i. Click Finish.
- ____j. The new server should be seen in the Server view.

🗞 Build Activities 🔲 Properties 🔝 Problems 🔞 Server Logs 👭 Se	ervers 🛛 🕻 Asset Repositories	- 8
		参 🜔 🖉 🗉 🔡 🛅
Server 🔺	State	Status
🔀 WebSphere Process Server v6.2 at localhost	🚡 Started	Synchronized
52 WebSphere Process Server v6.2 at mvsxxx.rtp.raleigh.ibm.com	🟪 Stopped	Synchronized

- 2. Start the remote server if it is not already started. WebSphere Integration Developer does not support starting remote servers from the Server view.
 - ____a. From a command prompt, telnet to the remote system if needed:

'telnet <HOSTNAME> <TELNET_PORT>'

User ID : <USERID>

Password : <PASSWORD>

____b. Navigate to the bin directory for the profile being used:

cd <WAS_HOME>/profiles/<PROFILE_NAME>/bin

____ c. Run the command file to start the server: ./startServer.sh <SERVER_NAME>

____ d. Wait for status message indicating server has started:

ADMU3200I: Server launched. Waiting for initialization status ADMU3000I: Server sssr01 open for e-business; process id is 0000012000000002

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