IBM WebSphere<sup>®</sup> Process Integration 6.0 – Lab Exercise

# End to End Scenario

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## What this exercise is about

The objective of this lab is to provide you with an understanding of how to use the WebSphere Integration Developer V6 tools to construct an end to end solution using existing components.

## Lab Requirements

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

- WebSphere Integration Developer V6 installed
- WebSphere Process Server V6 test environment installed
- Sample code in the directory C:\Labfiles60 (Windows®) or /tmp/LabFiles60 (Linux®)
- WebSphere Business Integration Toolset installed

## What you should be able to do

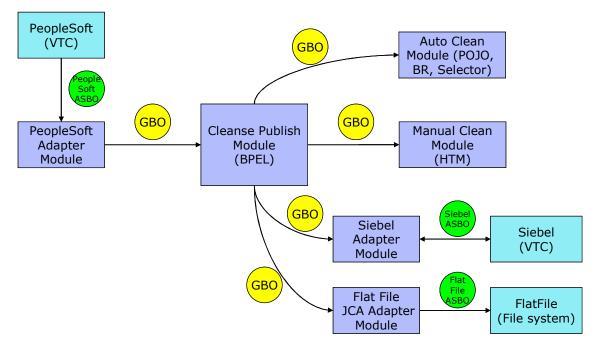
At the end of this lab you should be able to:

- Create SCA Imports and Exports
- Define both SCA and JMS Pub/Sub bindings for the Imports and Exports

• Use the Visual Test Connector to simulate adapter input and output to the process server

## Introduction

In this exercise, you will construct an end to end solution for the eXchange scenario. The overall flow of the solution is depicted in the following diagram.



All of the modules represented in the diagram are already implemented. However, the Imports and Exports required to connect the modules do not exist and you will be lead through creating them. After that, you will test the solution by driving input from the PeopleSoft adapter and then examine the output of the Siebel adapter.

Note: For this lab exercise, the Flat File JCA Module is not included, but could be easily added to this solution as separate module.

## **Exercise Instructions**

Some instructions in this lab might be specific for Windows platforms. If you run the lab on a platform other than Windows, you will need to run the appropriate commands, and use appropriate files (for example .sh in place of .bat) for your operating system. The directory locations are specified in the lab instructions using symbolic references as follows:

Reference Variable	Windows Location	Linux Location
<wid_home></wid_home>	C:\Program Files\IBM\WebSphere\ID\6.0	/opt/IBM/WebSphere/ID/6.0
<wps_home></wps_home>	<wid_home>\runtimes\bi_v6</wid_home>	<wid_home>/runtimes/bi_v6</wid_home>
<lab_files></lab_files>	C:\Labfiles60	/tmp/Labfiles60
<workspace></workspace>	C:\Labfiles60\eXchange\EndToEndNoFF A\workspace	/tmp/Labfiles60/eXchange/EndToEndNo FFA/workspace
<temp></temp>	C:\temp	/tmp
<solution></solution>	C:\Labfiles60\eXchange\EndToEndNoFF A\Solution	/tmp/Labfiles60/eXchange/EndToEndNo FFA/Solution

**Windows users' note**: When directory locations are passed as parameters to a Java program, such as wsadmin, you must replace the backslashes with forward slashes to follow the Java convention. For example, C:\LabFiles60\ would be replaced by C:/LabFiles60/.

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 remote test environment:

Reference Variable	Example: Remote Windows test server location	Example: Remote z/OS <sup>®</sup> test server location	Input your values for the remote location of the test server
<server_name></server_name>	server1	cl1sr01	
<was_home></was_home>	C:\Program Files\IBM\WebSphere\AppServer	/etc/cl1cell/AppServerNode1	
<hostname></hostname>	localhost	mvsxxx.rtp.raleigh.ibm.com	
<bootstrap_port></bootstrap_port>	2809	2809	
<telnet_port></telnet_port>	N/A	1023	
<pre><profile_name></profile_name></pre>	AppSrv01	default	
<userid></userid>	N/A	cl1admin	
<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> <u>Test Environment</u>".

## Part 1: Initialize the Workspace for this Lab Exercise

This task is a common description for how to initialize your workspace for doing this lab. Substitute the values listed below for the variables.

<WORKSPACE> - C:\Labfiles60\eXchange\EndToEndNoFFA\workspace

<PROJECT\_INTERCHANGE> - C:\Labfiles60\eXchange\EndToEndNoFFA\import\EndToEndStart\_PI.zip

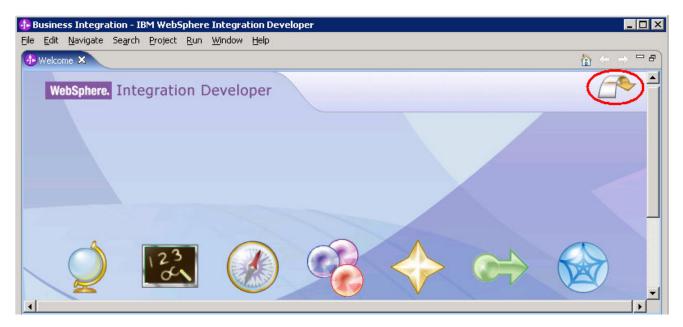
### <MODULE> - n/a

### <DEPENDENT\_LIBRARIES> - n/a

- 1. Start WebSphere Integration Developer V6 with a new workspace located at **<WORKSPACE**>.
  - \_\_\_\_a. From Windows Explorer, navigate to the <WID\_HOME> directory and double click on wid.exe.
  - \_\_\_\_b. When prompted for workspace name, enter the value provided by the **<WORKSPACE>** variable for this lab and click **OK.**

🚯 Workspace Launcher	×
Select a workspace	
IBM WebSphere Integration Developer stores your projects in a directory calle Select the workspace directory to use for this session.	ed a workspace.
Workspace: C:\Labfiles60\eXchange\EndToEnd\workspace	Browse
	OK Cancel

\_\_\_\_ c. When WebSphere Integration Developer V6.0 opens, close the **Welcome page** by clicking on the Go to the workbench icon (bent over arrow at top-right).



- \_\_\_\_d. Ensure you are in the **Business Integration** perspective.
- 2. If this lab requires you to import a project interchange file, setup the required libraries and modules for this lab by importing the project interchange file <PROJECT\_INTERCHANGE>.
  - \_\_\_\_a. From the menu bar, select File -> Import...
  - \_\_\_\_b. In the Import dialog, scroll down and select Project Interchange.

🚯 Import			×
Select Import a project and its de	pendent projects from a Z	lip file.	Ľ
Select an import source:	1		
	< <u>B</u> ack Next :	> Einish	Cancel

\_\_\_ c. Click Next.

- \_\_\_\_d. In the Import Projects dialog, initialize the From zip file: field to <**PROJECT\_INTERCHANGE>.**
- \_\_\_e. Click the Select All button.

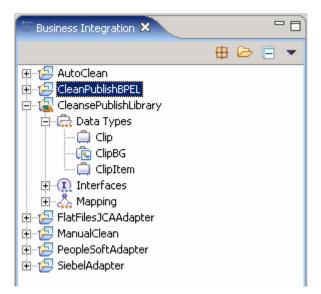
🚯 Import Project In	nterchange Contents	×
Import Projects Import Projects from	a zip file.	
From zip file: Project location root:	C:\Labfiles60\eXchange\EndToEnd\import\EndToEnd 💌 C:\Labfiles60\eXchange\EndToEnd\workspace	Browse Browse
<ul> <li>✓ AutoClean</li> <li>✓ AutoClean</li> <li>✓ CWYFF_FlatFil</li> <li>✓ CleanPublishBF</li> <li>✓ CleansePublish</li> <li>✓ FlatFilesJCAAc</li> <li>✓ AnnualClean</li> <li>✓ PeopleSoftAda</li> <li>✓ SiebelAdapter</li> <li>✓ Swebsphere_dat</li> </ul>	PEL hLibrary dapter apter	
Select All Deselec	t All Select Referenced          < Back	Cancel

\_\_\_ f. Click Finish.

## Part 2: Understanding eXchange Components

In this part you will examine the existing components that are part of the eXchange scenario. This will provide you with a basis to understand the solution you will be constructing in subsequent parts.

- 1. The CleansePublishLibrary contains the common WSDL and XSD files used by the various components within the eXchange integration application. These files define the interfaces and data types used by components as they work with the requests received from the PeopleSoft adapter, cleanse the data, and publish it to the Siebel adapter. Examine the library.
  - \_\_\_\_a. Expand CleansePublishLibrary and expand Data Types.



\_\_\_ b. Open the ClipBG and Clip data types. Notice how ClipBG includes the Clip business object and Clip contains the ClipItem business object.

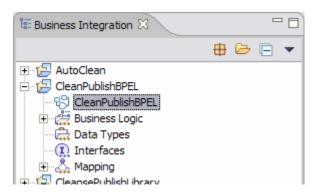
🖃 🔁 ClipBG		🕽 Clip
<u>.</u>		*
verb string	clipIC	) string
Clip Clip -	GLN	string
	dip	string
	size	string
	color	string
<b>•</b>		<b>.</b>

÷			Ξ.		
	😑 📋 Clip		`►	🖃 📋 ClipItem	
				<b>▲</b>	
	clipID	string		itemID	string
	GLN	string		GTIN	string
	clip	string		package	string
	size	string		quantity	string
	color	string		fullDescription	string
	brand	string			
	retailItems	ClipItem [] -			
ļ		- //	1		

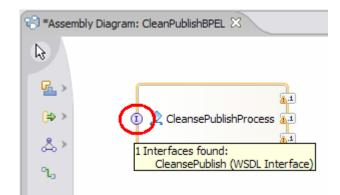
- \_\_\_\_ c. Expand Interfaces under CleansePublishLibrary.
- \_\_\_\_d. Open the different interfaces and notice the operations and the messages. All messages are of the ClipBG type.

-	🕶 Define Operation(s) 😽 🦥 🕼 🐺				
D	Define Operations and their corresponding parameters				
		Name	Туре		
	✓ deanseClip				
	Dl Input(s)	inClipBG	ClipBG		
	🕼 Output(s)	outClipBG	ClipBG		
	🐱 Fault(s)	cleanseClipFault1	string		

- 2. The CleanPublishBPEL module provides the business logic for cleansing the data received from the PeopleSoft adapter before it is sent to the Siebel adapter. Examine the contents of the module.
  - \_a. Expand **CleanPublishBPEL** and double-click on **CleanPublishBPEL** to open the assembly editor. The business process has already be created and defined as a component.



b. The business process has already been created and defined as a component within the module. It has an interface that can be called and 3 references to other service components. Hover the mouse over the interface ("I") icon on the left to view the interface, which defines how the business process is called. You should see that the **CleansePublish** interface has been specified.

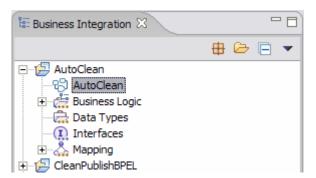


\_\_\_\_\_ c. Hover the mouse over the reference icons ("1..1") to view the interfaces that are called. You should notice two references to the Clean interface and one to the Publish interface.

😌 *Assembly Diagram: CleanPublishBPEL 🛛				
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<b>G</b> . >				
(≑>>				
\$>	Name: AutoClean			
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\_\_\_\_d. Close the assembly editor.

- 3. The AutoClean module provides an automated means of cleansing the data within the business logic. The cleansing is done either by a Business Rule or a Java component with a Selector component making the determination. Examine the contents of the module.
  - \_\_\_\_a. Expand AutoClean and double-click on AutoClean to open the assembly editor.



b. The AutoClean module contains a Selector, Business Rule, and a Java class. All of these have been defined as components. The Selector (SelectClean) is the main component called to determine if the cleansing should be performed by a Business Rule (CleanseRuleGroup) or a Java component (Component1). The Selector is linked to the Business Rule and Java component through dynamic wires, which are not shown in the assembly editor. The Selector handles the incoming requests to the module and determines if the Business Rule or the Java component should be called to perform the auto-cleansing of the incoming data.

8 Assem	bly Diagram: AutoClean 🔀	
<b>↓</b> <b>□</b>		Component1
(⇒>	E	
&>	1 SelectClean	
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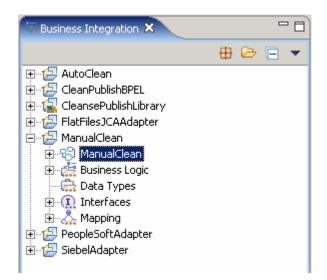
\_\_\_\_c. Hover the mouse over the interface icon for the Selector. Notice the Selector uses the Clean interface.

🕄 Assembly Diagram: AutoClean 🔀				
	1 Component1			
ا (ھە) مى	1 SelectClean			
°L,	1 Interfaces found: Clean (WSDL Interface)			

\_\_\_\_\_ d. Hover the mouse over Component1 (Java) and the CleanseRuleGroup components. Notice these also use the Clean interface. With all components using the same interface, the data can be easily passed from one component to another within the module.

😌 Assembly Diagram: AutoClean 🔀					
	1 SelectClean	Component1 -• 1 Interfaces found: Clean (WSDL Interface)			
٩.					

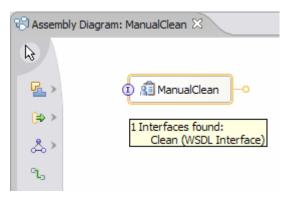
- \_\_\_\_e. Close the assembly editor.
- 4. The ManualClean module provides the ability for human interaction to be part of the cleansing process. Examine the contents of the module.
  - \_\_\_\_a. Expand ManualClean and double-click on ManualClean to open the assembly editor.



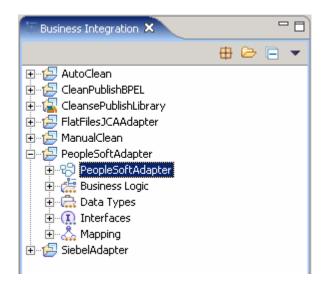
\_\_\_\_b. The ManualClean module contains a human task component. The human task, **ManualClean**, allows for a person to be part of the data cleansing.

🕄 Assembly Diagram: ManualClean 🔀		
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<b>G</b> . >	1 🗿 ManualClean	
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\_\_\_\_ c. Hover the mouse over the interface icon. Notice the Clean interface is used to call the human task component.



- \_\_\_\_d. Close the assembly editor.
- 5. The PeoplesoftAdapter module provides the capability to accept requests and pass the data on to the business logic. Examine the contents of the module.
  - \_ a. Expand **PeopleSoftAdapter** and double-click on **PeopleSoftAdapter** to open the assembly editor.



b. The PeopleSoftAdapter module is used to accept requests from the PeopleSoft adapter and convert an application specific business object (ASBO) to a generic business object (GBO), which is passed. The transformation is completed using interface and data type maps (InboundDeliveryToCleansePublish). In order to accept the request from the PeopleSoft adapter, an Export, wbia/asbo/PsftConnectorDeliveryHub, with a JMS binding is used on the maps. The connection between the map and Export is represented by the wire.

🕄 Assem	bly Diagram: PeopleSoftAdapter 🔀
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<u>F.</u> >	D State with the state of the s
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&>	InboundDeliveryToCleansePublish
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\_\_\_\_ c. Hover the mouse over the interface of the Export. The interface used is named InboundDelivery and is specific to interaction with the PeopleSoft adapter. The interface definition is contained within the PeopleSoftAdapter module as it is specific for this module and is not shared with other modules.

🕄 Assembly Diagram: PeopleSoftAdapter 🛛			
Ø			
<b>G</b> . >	(1) wbia/asbo/PsftConnectorDeliveryHub		
(⇔ >	1 Interfaces found:		
&>	InboundDelivery (WSDL Interface)		
۹.			

\_\_\_\_d. Hover the mouse over the reference on the map. Notice the reference is to the **CleansePublish** interface which is the same as used by the business process.

(C) Assem	bly Diagram: PeopleSoftAdapter 🔀
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(⇒ >	
&>	La InboundDeliveryToCleansePublish
۹.	WSDL Reference
	Name: CleansePublish Interface: CleansePublish

- \_\_\_\_e. Select the Export wbia/asbo/PsftConnectorDeliveryHub and select the Properties Tab.
- \_\_\_\_ f. Select the **Bindings** tab. Notice the JMS binding information specified for the module as it receives requests off a queue.

Properties 🕅	Problems Servers Progre	ss			▼ □
Description	Export: wbia/asbo/l	sftConnectorDelive	eryHub (JMS Bin	ding)	
Details	JMS Export Binding Connection	n Resource Adapter	JMS Destinations	Response Connection	Method Bindings
Binding	Adapter Type: Connection JNDI Lookup Name:	WebSphere Default M	essaging Provider v	version 0.3	
	Activation Spec:	com.ibm.ws.sib.api.jn	sra.impl.JmsJcaAc	tivationSpecImpl	•
	JMS Destinations				
	Receive Destination Type:	javax.jms.Queue			-

\_\_\_\_g. Select the JMS Destinations tab, and expand the Receive Destinations Properties.

\_\_\_h. The JNDI name of the queue, **PSFTCONNECTOR/DELIVERYQUEUE**, is set for the Export.

Properties 🕅	Problems Servers	Progress	
Description	Export: wbia/a	sbo/PsftConnectorDeliveryHub (JMS Binding)	
Details	JMS Export Binding Cor	nnection Resource Adapter JMS Destinations Respo	
Binding	Receive Destination Properties		
	]		
	JNDI Lookup Name:	PSFTCONNECTOR/DELIVERYQUEUE	
	Туре:	javax.jms.Queue	
	Destination Properties		

\_\_\_\_i. Close the assembly editor.

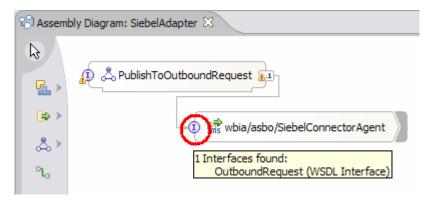
6. The SiebelAdapter module provides the capability to receive cleansed data passed from the business logic and pass it onto a Siebel adapter. Examine the contents of the module.

- -0 Business Integration 🗙 🗄 🗁 🥅 -🕀 🔁 AutoClean 🗄 🕼 🔁 CleanPublishBPEL 🗄 🕼 🔁 CleansePublishLibrary 🗄 👘 🔁 FlatFilesJCAAdapter 🗄 🖅 🔁 ManualClean 🗄 🔁 PeopleSoftAdapter 🗄 📁 🔁 SiebelAdapter 🖻 🕄 SiebelAdapter 🗄 / 🚈 Business Logic 🗄 🖳 Data Types 🗄 🕕 🚺 Interfaces 🗄 🖧 Mapping
- \_\_\_\_a. Expand SiebelAdapter and double-click on SiebelAdapter to open the assembly editor.

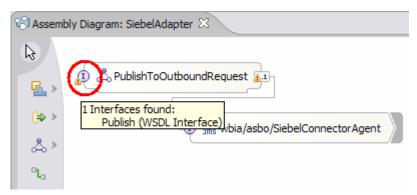
b. The SiebelAdapter module is used to accept requests and transform the data from a generic business object (GBO) to an application specific business object (ASBO) before it is passed to the Siebel adapter The transformation is completed using interface and data type maps (**PublishToOutboundRequest**). In order to send the request to the Siebel adapter, a JMS binding is used on an Import(**wbia/asbo/SiebelConnectorAgent**). The connection between the map and Import is represented by the wire.

🕄 Assem	bly Diagram: SiebelAdapter 🔀
	PublishToOutboundRequest
~	

\_\_\_\_\_ c. Hover the mouse over the interface for the Import. The interface (**OutboundRequest**) is specific to interacting with the Siebel Adapter. The interface definition is contained within the SiebelAdapter module as it is specific for this module and is not shared with other modules.



\_\_\_\_\_d. Hover the mouse over the interface of the map. Notice the **Publish** interface is used.



- \_\_\_\_e. Select the Import wbia/asbo/SiebelConnectorAgent and select the Properties Tab.
- \_\_\_\_\_f. Select the **Bindings** tab. Notice the JMS binding information specified for the module, required to send messages to a queue.
- \_\_\_\_g. Select the JMS Destinations tab, and expand the Send Destinations Properties.
- \_\_\_h. The JNDI name of the queue (SIEBELCONNECTOR/REQUESTQUEUE) is set for the Import.

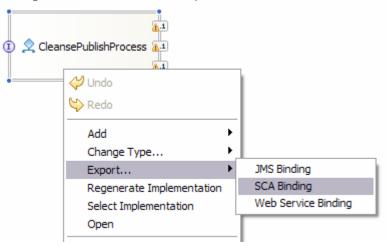
Properties 🛛	Problems Servers	Progress			
Description	Import: wbia/asbo/SiebelConnectorAgent (JMS Binding)				
Details	JMS Import Binding Co	nnection	Resource Adapter	JMS Destinations	Method Bindings
Binding Send Destination Properties					
	JNDI Lookup Name:	SIEBEL	CONNECTOR/REQU	ESTQUEUE	
	Туре:	javax.j	ms.Queue		
	Destination Properties				

\_\_\_\_i. Close the assembly editor.

## Part 3: Assemble eXchange

SCA components in different modules that support the same interfaces can be associated with each other through the use of Imports, Exports, and their associated binding. In this part you will add the required Imports, Exports and bindings to build an end to end solution from the components you examined in the previous part of this lab exercise.

- 1. The CleansePublishProcess has the most bindings and references that must be resolved. Start the overall assembly with defining the references and bindings for the CleanPublishBPEL module.
  - \_\_\_\_a. Open the **CleanPublishBPEL** assembly editor.
  - \_\_\_\_\_b. Right-click on the CleanPublishBPEL and select Export...>SCA Binding. In order for the business process to be called as an SCA component from the PeopleSoft adapter an SCA binding must be created on an Export.



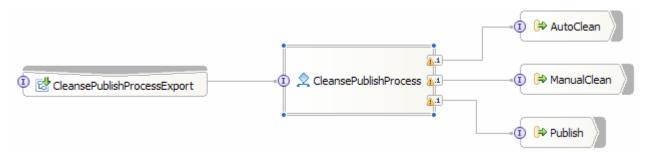
\_\_\_\_c. Hover the mouse over the interface on the Export. Notice how it exposes the CleansePublish interface for SCA invocation.

😵 *Asser	nbly Diagram: CleanPublishBPEL 🔀	
<b>G</b> . >		<u>a.</u> 1
(⇔ >	I CleansePublishProcessExport	
\$.>	• • • • • • • • • • • • • • • • • • •	4.1
۹.	CleansePublish (WSDL Interface)	

\_\_\_\_\_d. The references will also use SCA to call the AutoClean, ManualClean, and Publish components. These components are located in other modules and are called using Imports. An easy way to quickly generate Imports is to right-click on the CleansePublishProcess and select **Wire References to New > Imports**.

Select All	
Wire References to New	Components
Wire to Existing	Imports
Wire (Advanced)	
Test Component	
Show in Properties	

\_\_\_\_e. The Imports will be created and will use the reference name for the Import component name.



- \_\_\_\_\_f. Save and close the editor for now. The SCA bindings must be set for each Import component to call the appropriate module. The SCA binding can not be completed until the AutoClean, ManualClean, and Publish modules are properly exposed as SCA components. You will return to the CleanPublishBPEL assembly editor and set these SCA bindings later.
- 2. The AutoClean module only needs a single binding to be generated for calls from the CleansePublishProcess. Assemble the AutoClean module with an SCA binding.
  - \_\_\_\_a. Open the assembly editor for the **AutoClean** module.
  - \_ b. Right-click on SelectClean and select Export...>SCA Binding. The Selector is the only component in the module that needs to be exposed as an SCA component.

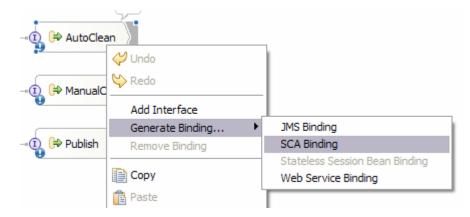
😂 *Assembly Diagram: AutoClean 🛛			
	1 Component1		
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ч.			

\_ c. Save and close the assembly editor. The Selector, which fronts the calls to the module and determines whether to call the Java component or Business Rule, is fully available to be called as an SCA component.

- 3. The ManualClean module also only needs a single binding to be generated for calls from the CleansePublishProcess. Assemble the ManualClean module.
  - \_\_\_\_a. Open the assembly editor for the ManualClean module.
  - \_\_\_\_b. Right-click on **ManualClean** and select **Export...>SCA Binding**. The human task can be easily exposed as an SCA component as well.

🕄 *Assemb	bly Diagram: ManualClean 🔀	
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<u>F.</u> >	1 🛃 ManualCleanExport	🕕 👔 ManualClean
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- \_\_\_\_ c. Save and close the editor. The human task is complete as an SCA component.
- \_\_\_\_4. Set the SCA bindings in the business process. With the AutoClean and ManualClean SCA components defined, the SCA bindings can be defined for the references in the business process.
  - \_\_\_\_a. Open the assembly editor for the CleanPublishBPEL module again.
  - \_\_\_\_b. Right-click the AutoClean Import component and select Generate Binding... > SCA Binding.



- \_\_\_\_ c. With the AutoClean Import component selected, select the **Bindings** tab in the **Properties** view.
- \_\_\_\_\_d. Click the **Browse** button. The different SCA components which are available will be listed. Notice that it is only those modules where the SCA Export has been defined.

SCA Export Selection	_ 🗆 🔀
Choose a SCA Export (? = any character,	, * = any String):
*	
Matches:	
CleansePublishProcessExport	
ManualCleanExport	
SelectCleanExport	

\_\_\_\_e. Select **SelectCleanExport** and click **OK**. The binding is complete for the business process to call AutoClean.

Properties 🔀	Problems	Servers	Progress	
Description	🗟 Import	: AutoCle	ean (SCA	Binding)
Details	Module name:	AutoClea	n	
Binding	Export name:	SelectCle	anExport	

- \_\_\_\_\_f. Right-click on **ManualClean** and select **Generate Binding... > SCA Binding**. A similar set of steps can be used for setting the SCA binding on the ManualClean Import component.
- \_\_\_\_g. Browse to and select **ManualCleanExport** on the Bindings tab in the Properties view. This will complete the SCA binding for ManualClean.

Properties 🛛	Servers	Progress		
Description	🗟 Import	: Manual	Clean (SC	A Binding)
Details	Module name:	ManualCl	ean	
Binding	Export name:	ManualCl	eanExport	

\_\_\_\_h. For the binding of the Publish Import Component, JMS will be used instead of SCA. In order to support the publish of data to the Siebel adapter, a JMS Topic will be used. Set the JMS binding by right-clicking on Publish and selecting Generate Binding... > JMS Binding.

		1
🕦 🗭 Publish	💛 Undo SCA import binding service	
	😂 Redo	
	Add Interface	
	Generate Binding 🕨	JMS Binding
	Remove Binding	SCA Binding
		Stateless Session Bean Binding
	Сору	Web Service Binding
	🕆 Paste	

 \_\_\_\_\_i. Select Publish-Subscribe for the Select JMS message domain. Select Text for the data is serialized between Business Object and JMS Message in the JMS Import Binding attributes selection dialog.

JMS Import Binding attributes selection:		
Select JMS messaging domain:	Publish-Subscribe	-
Select how data is serialized between Business Object and JMS Message:	Text	•
Specify fully qualified name of com.ibm.websphere.sca.jms.data.JMSDataBinding implementation class:		
✓ Inbound connectivity is using default JMS function selector class		
		. 1
	OK Cance	2

- \_\_\_ j. Click **OK**.
- \_\_\_\_k. Select the **Binding** tab in the **Properties** view. The specific topic where the message will be published must be specified to complete the binding.
- \_\_\_ I. Select the **JMS Destinations** tab.
- \_\_\_\_ m. Click on Send Destination Properties.
- \_\_\_\_\_n. At the bottom enter **PublishTopic** for the Topic name. This will cause a topic to be dynamically created using the Service Integration Technologies. If a predefined topic exists or is located on a different server, the JNDI name can be specified for the JNDI lookup name.

Properties 🛛	Problems Servers	Progress			
Description	Import: Publish	(JMS Binding)			
Details	JMS Import Binding Connection Resource Adapter JMS Destinations Method Bindings				
Binding	<ul> <li>Send Destination P</li> </ul>	roperties			
	JNDI Lookup Name: Type: javax.jms.Topic				
	Destination Properties -				
	Destination				
	Bus Name:				
	Delivery Mode:	Application			
	Time To Live:				
	Priority:	Default			
	Advanced Messaging	9			
	Read Ahead:	AsConnection			
	Topic				
	Topic Space: *	Default.Topic.Space			
	Topic Name:	PublishTopic			

\_\_\_\_\_o. Save and close the assembly editor. The binding for the Publish Import component is complete and the CleanPublishBPEL component now has bindings for all of its imports and exports.



- 5. The only binding needed for the PeopleSoftAdapter module is to the CleansePublishProcesss.
  - \_\_\_\_a. Open the assembly editor for the PeopleSoft module.
  - b. Right-click on InboundDeliveryToCleansePublish and select Wire References to New > Imports. To create the binding to the CleansePublishProcess SCA component, an Import component must be used from the map. The SCA binding must be used. Right-click on the CleansePublish Import component and select Generate Bindings...>SCA Binding.
  - \_\_\_\_c. Browse to and select **CleansePublishProcessExport** on the Bindings tab in the Properties view. This will complete the SCA binding for PeopleSoftAdapter module.

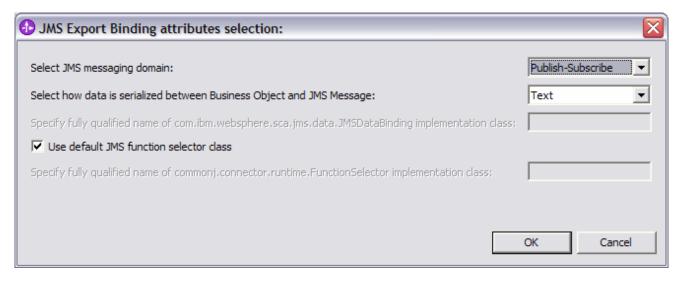
Properties 🔀	Problems	Servers	Progress	
Description	🗟 Import	: Cleanse	ePublish (	SCA Binding)
Details	Module name:	CleanPub	olishBPEL	
Binding	Export name:	CleanseP	ublishProc	essExport

\_\_\_\_\_d. Save and close the assembly editor.

- 6. The Siebel Adapter must be able to accept the data (ClipBG) published from the CleansePublishProcess to the topic. A JMS binding to the topic must be set. Assemble the SiebelAdapter module to utilize the topic to receive the updated data.
  - \_\_\_\_a. Open the assembly editor for the SiebelAdapter module.
  - b. Right-click on PublishToOutboundRequest and select Export...>JMS Binding. The JMS binding is set on the Export component for the PublishToOutboundRequest map component as the generic business object (GBO) will be converted to the application specific business object (ASBO) for the Siebel adapter.

🕲 Asse	mbly Diagram: SiebelAda	pter ×		
R				
<b>G</b> , 1	1 🖧 PublishTo	OutboundRequest 1.1	1 🚮 wbia/asbo/SiebelConnectorAgent	
( <del>)</del>	•	Undo		
ي ا		铃 Redo		
		Add	•	
٩.		Export	<ul> <li>JMS Binding</li> </ul>	
		Regenerate Implementation	SCA Binding	
		Select Implementation	Web Service Binding	
		0000		

\_\_ c. Select Publish-Subscribe for the Select JMS message domain. Select Text for the data is serialized between Business Object and JMS Message, in the JMS Import Binding attributes selection dialog.



IBM WebSphere Process Integration 6.0 – Lab Exercise

### \_\_\_\_d. Click **OK**.

- \_\_\_\_e. Select the PublishToOutboundRequestExport you just created and select the **Properties** view.
- \_\_\_\_f. Click on the **Binding** tab.
- \_\_\_\_g. Select the **JMS Destinations** tab. You must set the Export to use the specific topic where the data (ClipBG) will be published.
- \_\_\_h. Expand Receive Destinations Properties.
- \_\_\_\_\_i. Specify the **PublishTopic** for the Topic Name at the bottom. This is the same name used by the Import Component of the CleansePublishProcess to publish the data.

Properties 🛛	Problems Servers P	rogress				
Description	Export: PublishToOutboundRequestExport (JMS Binding)					
Details	JMS Export Binding Con	ection Resource Adapter JMS Destinations Response Connection Method Bindings				
Binding	Binding   Receive Destination Properties					
	JNDI Lookup Name:					
	Type:	javax.jms.Topic				
	Destination Properties					
	Destination					
	Bus Name:					
	Delivery Mode:	Application				
	Time To Live:					
	Priority:	Default				
	Advanced Messagin	g				
	Read Ahead:	AsConnection				
	Topic					
	Topic Space: * Default.Topic.Space					
	Topic Name:	PublishTopic				

\_\_\_\_j. Save and close the assembly editor. The SiebelAdapter assembly is complete.

## Part 4: Testing eXchange

In this part you will test the end to end solution. This will be done by using two Visual Test Connectors, one to simulate the PeopleSoft application, which will drive the input and the other to simulate the Siebel application, which will receive the output. Once the flow is initiated from the Visual Test Connector for PeopleSoft, you will need to interact with the Human Task Manager. Once that is done, you should see the output in the Visual Test Connector for Siebel.

- 1. If using a remote testing environment, follow directions provided in <u>Task: Adding Remote Server</u> to <u>WebSphere Integration Developer Test Environment</u> at the end of this document to add a server to the WebSphere Integration Developer test environment and start it. This is especially true for z/OS, AIX, Solaris remote test environment, where the WebSphere Integration Developer will be remote to the test environment.
  - \_\_\_\_a. Your Console view will look something like this once the server has started.

Properties Problems	Servers 📃 Console	×		🔲 💥 🔂 🖉 🖻 🗝 🗖
WebSphere Process Se	erver v6.0 [WebSphe	re v6.0 Server] WebSphere Proce	ss Server v6.0 (WebSpher	re v6.0)
[7/18/05 13:53	3:23:891 CDT]	00000038 SchedulerDa	aem I SCHD0038:	I: The Scheduler Daemon 🖾
[7/18/05 13:53	3:23:961 CDT]	00000038 SchedulerSe	erv I SCHD0078	I: The Scheduler Service
[7/18/05 13:53	3:25:383 CDT]	00000014 WorkSpaceMa	ana A WKSP0023	I: Workspace configurati
[7/18/05 13:53	3:25:694 CDT]	0000005e ServletWrag	ppe A SRVE0242	I: [transfer]: Initializ
[7/18/05 13:53	3:25:784 CDT]	0000005e WorkSpaceMa	ana A WKSP0023	I: Workspace configurati
[7/18/05 13:53	3:28:648 CDT]	0000005e WorkSpaceMa	ana A WKSP0023	I: Workspace configurati 👝

\_b. Click on the Servers tab and verify that the server status shows as Started

Properties Problems		\$ O	🖉 🍫 🔳 🖓 😰 🗖
Server	Host name	Status	State
WebSphere Process Server v6.0	localhost	Started	Synchronized

- 2. Publish the PeopleSoftAdapter and SiebelAdapter modules so that the required messaging queues can be configured.
  - \_\_\_\_a. Right click on the server and select **Add and remove projects...** from the pop-up menu.

	🎽 Add and remove projects	j	
	Run universal test client Restart universal test client		
	Run administrative console		
	Reconnect debug process		
Properties Problems	Create tables and data sources	\$ <b>0</b>	🖉 🍫 🔳 🙌 🔮 🗖
Server	Launch	Status	State
WebSphere Process Server v6.0	localhost	Started	Synchronized

b. Select the **PeopleSoftAdapterApp** in the Add and Remove Projects dialog and use the Add> button to add it to the Configured projects list. Repeat this for the **SiebelAdapterApp**. The dialog should now look like this.

🕀 Add and Remove Project	5	
Add and Remove Projects Modify the projects that are confi	gured on the server	
Move projects to the right to config <u>A</u> vailable projects: CleanPublishBPELApp Herein FlatFilesJCAAdapterApp ManualCleanApp Herein AutoCleanApp	Add > Add > < Remove << Remove All	Configured projects: PeopleSoftAdapterApp → C SiebelAdapterApp
	< Back Next >	<u>Einish</u> Cancel

- \_\_\_ c. Click Finish.
- \_\_\_\_d. In the lower right of the window you will see messages while the publishing is proceeding. Wait until there are no longer any messages.



\_3. Now that the PeopleSoft and Siebel projects have been started in the server for the first time, the messaging configuration required by them has been defined to the server. The server must now be restarted in order for that messaging configuration to be activated.

**NOTE:** As part of publishing the SiebelAdapterApp you may see some exceptions. Ignore the exceptions. There is a workaround that is specified at a later stage in this lab

**NOTE:** The requirement for a server restart after the installation of an application containing a WBI Adapter Import or Export is a one time requirement. After this has been done the first time, the required messaging configuration is defined to the server. Additional applications using WBI Adapters can be installed without requiring a server restart.

\_ a. Restart the server. Right click on WebSphere Process Server v6.0 server from the Servers view and select **Restart** from the context menu, or **Stop** if you are using a remote test environment.

- b. Once the server is stopped, follow directions provided in <u>Task: Adding Remote Server to</u> <u>WebSphere Integration Developer Test Environment</u> to restart the server. This is especially true for z/OS, AIX, Solaris remote test environment, where the WebSphere Integration Developer will be remote to the test environment.
- \_\_\_\_ c. Wait for the server to fully restart.

**NOTE:** When the server restarts, there might be messages in the Console view. Wait until you see the server return to a Started status.

Properties Problems			🌣 🜔 🖉 🍫 🔳 🖓 🔁 🗆
Server	Host name	Status	State
WebSphere Process Server v6.0	localhost	Started	Synchronized

\_\_\_\_\_4. Publish all of the projects to the server.

\_\_\_\_a. Right click on the server and select **Add and remove projects...** from the pop-up menu.

Move projects to the right to config	ure them on the server	
<u>A</u> vailable projects:		Configured projects:
	A <u>d</u> d >	SiebelAdapterApp      PeopleSoftAdapterApp      CleanPublishBPELApp      FlatFilesJCAAdapterApp
	< <u>R</u> emove	⊡…( ManualCleanApp ⊡…( AutoCleanApp
	Add Alj >>	
	<< Remove All	
	< <u>B</u> ack <u>N</u> ext >	<u>F</u> inish Cancel

\_\_\_\_b. Click the Add All>> button.

- \_\_\_ c. Click Finish.
- \_\_\_\_d. Wait for publishing of the projects to complete (no more messages in the lower right corner). This can take several minutes to complete.

**NOTE:** If the SiebelAdapterApp publishing results in exceptions, follow the steps below as a workaround

In the Administrative Console, navigate to Resources  $\rightarrow$  JMS Providers  $\rightarrow$  Default Messaging

For the scope, select the Server scope

Click on the "JMS activation specification" link under "Activation Specifications"

Click on the <u>SiebelAdapter.com.clipsandtacks.scm.PublishToOutboundRequestExport\_AS</u> link

Change the Destination Type from Queue to Topic

General Properties
Administration
Administration
* Scope
cells:cl1base1:nodes:cl1node1:servers:cl1sr01
* Name
SiebelAdapter.com.clipsandta
* JNDI name
SiebelAdapter/com/clipsandti
Destination
* Destination type
* Destination type
* Destination JNDI name
SiebelAdapter/com/clipsandta
Message selector
Bus name
SCA.APPLICATION.cl1base1.Bus 🔽

Click Ok and save the changes.

Got to Applications  $\rightarrow$  Enterprise Applications. select the check box next to SiebelAdapterApp and click the start button. This will start the SiebelAdpaterApp application

- \_ 5. Once the server is running with the entire solution deployed, you are ready to test it. To do that, start the Visual Test Connectors that will be used to simulate the PeopleSoft and Siebel applications.
  - \_\_\_\_ a. Follow the instructions found in the <u>Task: Connecting with the Visual Test Connector</u>, using the configuration data found at **LAB FILES>\eXchange\PeopleSoft\ASBOs\PsftConnectorWPS.cfg.**
  - b. Open a second visual test connector by following the instructions found in the <u>Task: Connecting</u> with the Visual Test Connector at the end of this document, using the configuration data found at <LAB\_FILES>\eXchange\Siebel\ASBOs\SiebelConnectorWPS.cfg.

- 6. Load a predefined business object into the Visual Test Connector for the PeopleSoft and examine its values.
  - \_\_\_\_a. In the VTC window for PeopleSoft, select Edit > Load Business Object.



- b. Navigate to c:\Labfiles60\eXchange\PeopleSoft\ASBOInstances in the Open dialog, and select PsftASBO1.bo.
- \_\_\_ c. Click **Open.**
- \_\_\_\_ d. Enter a name to be assigned to this instance, such as **Psft1**.

New Instance
Enter Name Psft1
OK Cancel

- \_\_\_ e. Click OK.
- \_\_\_\_f. Look at the values assigned to the Psft\_ClipType fields.

Business Object Type   Psft_ClipType								
Business Object Instance Psft1   Create								
Business Object Edito	r ———							
Verb: Create 💌	Business Object Loca	le: en 🔻						
Name	Туре	Value						
ClipID	String	CID12345						
Clip	String	clasp						
Size	String	small						
Color	String	black						
+ RetailUnits[n]	Psft_RetailItem							
ObjectEventId	String							

- \_\_\_\_g. Click the + in front of **RetailUnits[n]** to expand the Psft\_RetailItem array.
- \_\_\_\_h. Click the + in front of [0] to see an instance of Psft\_RetailItem.

Name	Туре	Value		
ClipID	String	CID12345		
Clip	String	clasp		
Size	String	small		
Color	String	black		
<ul> <li>RetailUnits[n]</li> </ul>	Psft_RetailItem			
[0]	Psft_RetailItem			
ItemCode	String	98765		
Package	String	box		
Quantity	String	40		
Price	String	2.59		
Available	String	2005-03-01		
Withdraw	String	2010-06-30		
OwningC	String	Jones, Sam		
ObjectEv	String			
ObjectEventId	String			

- 7. Initiate the test by sending the business object from the PeopleSoft VTC to the WebSphere Process Server.
  - \_\_\_\_a. Select **Request > Send.**

🌬 Test Connector -[WAS] - [PeopleSoftWPS.cfg]							
File	Edit	Request	Help				
Ⅲ	2	🖽 Edit R	esponse	Ctrl+R			
Busi	iness C			Ctrl+T			
Busi	iness C	Reply			Create		
	isiness	🛟 Send	Batch	Ctrl+B			

\_b. You should see a message in the VTC indicating that the message was sent.

	_
Connecting to WAS Monday, July 18, 2005 3:48:16 PM CDT	~
PsftConnectorWPS Ready Monday, July 18, 2005 3:48:30 PM CDT	_
Sent Business Object Psft_ClipType Verb Create Monday, July 18, 2005 4:16:37 PM CDT	

- 8. Part of the application scenario includes a Human Task. This is the opportunity for a human to review the contents of the business object and make any necessary changes to it. Start by opening the BPC Explorer to handle the Human Task activity.
  - a. Right-click on WPS Server v6.0 in the Servers view and select Launch > BPC Explorer. If you are using a remote server, you can instead open a Web browser and navigate to <u>http://<HOSTNAME>:9080/bpc</u>. The My Tasks view will be shown with the task ready to be completed.

Welcome: (English) Se	arch Help						
<ul> <li>Process Templates</li> <li>My Tasks</li> <li>My Process Templates</li> <li>Process Instances</li> <li>Started By Me</li> <li>Administered By Me</li> <li>Failed Compensations</li> <li>Athen we</li> </ul>							
Task Instances	Available Actions Work on Release Refresh						
		<u>d</u>					
My Escalations	ManualClean Ready Participating						

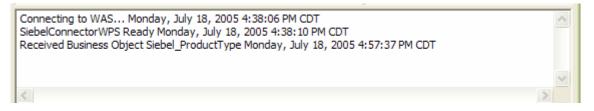
- 9. Complete the task so that the flow of the scenario can continue.
  - \_\_\_\_a. Click on the check box for instance to select it and then click "Work on". This will claim the task on behalf of the current user.

Task Messag	e											
Use this pag	e to provid	le the	data required	d to complete t	he task. i	]						
Available A	tions											
Complete	Save	Car	ncel									
Instance Name	ManualCle	an										
Task Input Message	inClipBG	Clip	clipID	CID12345								
			GLN	GLN	123456789012	23						
				clasp								
			size	small								
			color	black								
			brand	Clips and Tack	s							
			retailItems	itemID GTIN	package	quantity	fullDescription	price	startDate	endDate	contactFirstName	
				98765	box	40	box 40	2.59	2005- 03-01	2010- 06-30	Sam	

b. Fill in the values for fields in the task output message based on the values in the input message. Since this step in the business process allows a human to review and make updates to the business object, you will make a slight modification. Fill in all the output message fields with the same values from the input message, except change the color from black to charcoal as shown in the screen shot. You will need to click the + in **retailItems** to fill in the data values for an instance.

Task Output Message	outClipBG	Clip	clipID	CID12345					
			GLN	1234567890123					
			clip	clasp					
			size	small					
			color	charcol					
			brand	Clips and Tacks					
			retailItems	itemID	GTIN	package	quantity	fullDescription	price
				98765		box	40	box 40	2.59
				+					

- \_\_\_ c. Click the **Complete** button.
- \_ 10. Verify the data that has been sent to Siebel.
  - \_\_\_\_a. Look at the Visual Test Connector window for Siebel and verify that it has received a business object.



\_\_\_\_b. Double click on Siebel\_ProductType.create to open a window with the received BO.

🚧 Test Connector -[WAS] - [SiebelConnectorWPS]	🛛 🔼
<u>File E</u> dit <u>R</u> equest <u>H</u> elp	
⊞ 🗠 🖆   📾 🛤 🚧	
Business Object Type	Business Object Request List Siebel_ProductType.Create
Business Object Instance Create	

\_\_\_\_ c. Examine the data in the Response Business Object window.

🗖 Response Bu	siness Object		X				
🤣 🖉 🐟 🔛							
Business Object Typ Verb:	Business Object Type Siebel_ProductType /erb: Create V Business Object Locale: V						
Name	Туре	Value					
Key	String						
Description	String	small clasp charcol					
ProductPack	Siebel_Produc						
[0]	Siebel_Produc						
GlobalI	String						
Packa	String	box 40					
Price	String	2.59					
Availa	String	2005-03-01					
Availa	String	2010-06-30					
Contact	String	Sam Jones					
Object	String	siebeladapter.com.clipsandtacks.scm.ClipItemToSiebelProductPackage@466e006e1121723857636					
ObjectEventId	String	siebeladapter.com.clipsandtacks.scm.ClipToSiebelProductType@7e1780701121723857576					
1		OK Cancel					

\_\_\_\_\_d. Type in a value for the Key field, such as A1234.

.

Name	Туре	Value
Кеу	String	A1234
Description	String	small clasp (

### \_\_\_ e. Click **OK.**

- \_\_\_\_11. Send a response back to the server indicating the request was received and providing the Key value.
  - \_\_\_\_a. Ensure that Siebel\_ProductType.create is selected.
  - \_\_\_\_b. Select Request -> Reply -> Success from the menu,
- 12. Now that testing is complete, shut down your environment.
  - \_\_\_\_a. Right click on the server in the Servers view and select **Add and remove projects...** from the pop-up menu.
  - \_\_\_\_ b. Use the << Remove All button to remove the projects from the server. The dialog should now look like this:</p>
  - \_\_\_ c. Click Finish.
  - \_\_\_\_d. Wait until the projects complete unpublishing and there are no more messages in the lower right corner.
  - \_\_\_\_e. Click on the **Servers** tab and then the **Stop the server** icon.

Properties Problems 🖧 Servers 🔀 Console		🆘 🕥 🖉 🍫	<b>)</b> ki 😰 – D
Server	Host name	Status	State
Bill WebSphere Process Server v6.0	localhost	🖡 Started	Synchronized

\_\_\_\_f. Close both Visual Test Connector windows.

## What you did in this exercise

In this chapter you examined existing components that can be used in the eXchange scenario. You then defined the Imports, Exports and bindings needed to create an end to end solution. Finally, you tested that solution by driving input from a Visual Test Connector and examining the resulting output.

## **Solution Instructions**

1. Follow the directions in the task <u>Initialize the Workspace for a Lab Exercise</u>, using the following values:

### <WORKSPACE>

C:\Labfiles60\eXchange\EndToEndNoFFA\workspace

### <PROJECT\_INTERCHANGE>

 $C:\Labfiles60\eXchange\EndToEndNoFFA\Solution\EndToEnd_PI.zip$ 

### <MODULE>

n/a

### <DEPENDENT\_LIBRARIES>

n/a

**2.** Continue with **Part 4: Testing eXchange**.

# 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. The sample will use a z/OS machine.

- \_\_\_\_1. Create a new remote server.
  - a. Right click on the background of the Servers view to access the pop-up menu.
  - b. Select **New > Server.**

Properties Problems 👫 Servers 🗙 Console		🌣 🕥 🤣	🍫 🗏 M 🏥 🗖 🗍
Server	Host name	Status	State
HebSphere ESB Server v6.0	localhost	🚡 Stopped	Synchronized
WebSphere Process Server v6.0	localhost	🚡 Stopped	Synchronized
New 🕨 📑 Server			

- c. Specify hostname to the remote server, <HOSTNAME>.
- d. Ensure that 'WebSphere Process v6.0 Server' is highlighted in the server type list.

new Server	×
Define a New Server Choose the type of server to create.	
Specify the host where you want to publish	
Host name: mvsxxx.rtp.raleigh.ibm.com	<b>_</b>
Select the server type:	
HBM     WebSphere ESB Server v6.0     WebSphere Express v5.0 Server     WebSphere Express v5.1 Server     WebSphere Process v6.0 Server     WebSphere v5 Server Attach	▲ 
Description: WebSphere Process v6.0 Server	View By: Vendor
k,	

### e. Click Next.

f. On the WebSphere Server Settings page, select the radio button for **RMI** and change the ORB bootstrap port to the correct setting (<**BOOTSTRAP\_PORT**>).

💤 New Server	×
WebSphere Server Settings Input settings for the new WebSphere server	
WebSphere profile name:	~
Server connection type and admin port © RMI (Better performance)	
ORB bootstrap port: 9131	
SOAP (More firewall compatible)	
SOAP connector port: 8880	
Run server with resources within the workspace	
Security is enabled on this server	
Current active authentication settings;	
User ID:	
Password:	
Server name: server 1	
Server type	
BASE, Express or unmanaged Network Deployment server	
C Network Deployment server	
Network Deployment server name:	
The server name is in the form of: <cell name="">/<node name="">/<server name=""> For example, localhost/localhost/server1.</server></node></cell>	
Detect Click this button to detect the server type.	
< Back Next > Finish	Cancel

- g. Click Finish.
- h. The new server should be seen in the Server view.

			18 O V.	🍫 🔳 🖓 🔁 🗖
	Host name	Status		State
2	localhost	🖥 Stopped		Synchronized
	localhost	🖥 Stopped		Synchronized
	mvsxxx.rtp.raleigh.ibm.com	Started		Synchronized
				► I
	Ż	localhost localhost	localhost	localhost 🔚 Stopped localhost 🔚 Stopped

- 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>'

userid : <USERID>

#### pw: <PASSWORD>

If the remote server runs on a System i<sup>®</sup> server, sign on to the system and start a Qshell session.

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 cl1sr01 open for e-business; process id is 0000012000000002

# Task: Connecting with the Visual Test Connector

This task describes how to create a Profile and start a connection with the Visual Test Connector (VTC).

- 1. Ensure the WebSphere Process Server is active (the server is the JMS Broker). The VTC requires an active JMS Broker to start it's connection.
- Start the Visual Test Connector
  - \_\_\_\_\_a. From the start menu, select Programs > IBM WebSphere Business Integration Adapters > IBM WebSphere Business Integration Toolset > Visual Test Connector (VTC). This opens a command window in the background where the process runs and the Visual Test Connector Interface in the foreground. Do not close the command window as this will cause the VTC to exit.
- 3. Create/Select a Profile
  - \_\_\_\_a. From the VTC interface, select File > Create/Select Profile

Nest Connector	_ 🗆 🔀
File Edit Request Help	
Treate/Select Profile Ctrl+N	
Connect Ctrl+A	Business Object Request List
Exit Create	
Business Object Editor	
Verb: Verb: Business Object Locale: en	
Name Type Value	
J <u>P</u>	
1	~

\_\_\_\_b. If a profile does not already exist, create one by selecting **File > New Profile ...** If a profile does already exist skip to step d.

Connector Profile			
File Edit			
삼 New Profile Ctrl-	+N		
Exit		1	
Connector	- Jerver	User ID	Configuration File
<	I	11	>
	OK	Cancel	

\_\_\_\_ c. Browse to and select the connector configuration file, type in a Connector Name for the Profile, and select WAS for the Broker Type. Click OK.

New Profile		
Select the connecto	r configuration file:	
C:\Labfiles60\eXch	ange\PeopleSoft\ASBOs\PsftConnectorWPS	Browse
Connector		
Connector Name	PeopleSoft	
Broker Type	WAS	•
Server		
Server		1
User ID		
Password		1
	OK Cancel	

\_\_\_\_d. Select and highlight the profile and click OK

Connector Profile			
<u>File E</u> dit			
*			
Connector	Server	User ID	Configuration File
PeopleSoft			C:\Labfiles60\eXchange\P
<		Ш	>
	ОК	Cancel	

### \_\_\_\_e. Select File > Connect

Test Connector -[WAS] - [PeopleSoft]	_ 🗆 🛛
File Edit Request Help	
Treate/Select Profile Ctrl+N	
Connect Ctrl+A Business Object Request List	
Exit	
Create	
Business Object Editor	
Verb: Business Object Locale: en	
Name Type Value	
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Business Object Type	Business Object Request List
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