IBM WebSphere® Process Integration 6.0 – Lab Exercise

Maintaining Relationships Between ASBOs

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What this exercise is about

This exercise shows you how to develop and test relationships. These are used to cross-reference the PeopleSoft ASBOs with the GBOs and from the GBOs to the Siebel ASBOs.

Lab Requirements

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

- WebSphere Integration Developer V6.0.1 installed
- WebSphere Process Server V6.0 test environment installed
- Sample code in the directory C:\Labfiles60 (Windows®) or /tmp/LabFiles60 (Linux®)
- IBM WebSphere Business Integration Toolset installed

What you should be able to do

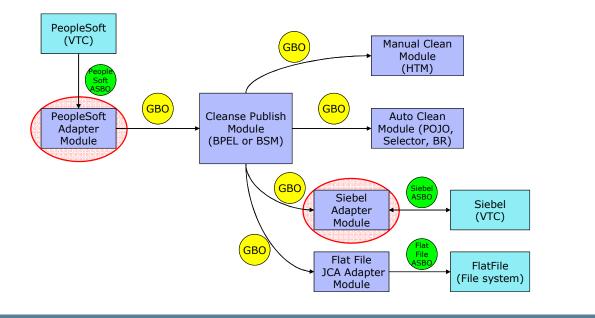
At the end of this lab you should be able to

- Design, test and utilize relationships
 - Create a relationship definition and relationship roles

• Test the relationships using Test Component

Introduction

The following diagram highlights the parts of the overall scenario that will be addressed in this lab. You will add mapping of business objects to the PeopleSoft and Siebel modules. This will build upon what you have already developed for these modules in the **WBI Adapters – Mapping** lab.



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\WBIAdapters\w orkspaceRel	/tmp/Labfiles60/eXchange//WBI Adapters\workspaceRel
<temp></temp>	C:\temp	/tmp

Windows users: When directory locations are passed as parameters to a JavaTM 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 [®] 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	
<profile_name></profile_name>	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 lab exercise is dependent upon the completion of the **WBIAdatpers – Mapping Between ASBOs** and **GBPS** lab exercise. There are two approaches you can take to performing this lab.

- 1. **Import pre-built projects** Using this approach, you will import a project which will establish your workspace with the required constructs from the previous lab exercise.
- 2. **Use your existing workspace** Using this approach, you will continue to use the workspace you were using in the previous lab exercise.

It is recommended that you use approach 1 where you import pre-built projects. This is because it prevents possible problems that might have been introduced when you completed the previous lab. In addition, the testing of the previous lab leaves some testing specific constructs that are not needed in this lab.

Perform only one of the following steps depending upon your choice of workspace.

If you want to **import pre-built projects**, follow the directions below to initialize the Workspace using the following values:

<WORKSPACE>

C:\Labfiles60\eXchange\WBIAdapters\workspaceRels

<PROJECT_INTERCHANGE>

C:\Labfiles60\eXchange\WBIAdapters\Solution\Mapping_PI.zip

<module>

n/a

<DEPENDENT_LIBRARIES>

n/a

If you want to **use your existing workspace**, follow the directions below to initialize the Workspace using the following values:

<WORKSPACE>

C:\Labfiles60\eXchange\WBIAdapters\workspaceMaps

<PROJECT_INTERCHANGE>

n/a

<MODULE>

n/a

<DEPENDENT_LIBRARIES>

n/a

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.**

🚯 Workspa	ce Launcher				×
Select a wo	rkspace				
	nere Integration Developer stores your orkspace directory to use for this session		ory called a work	space.	
<u>W</u> orkspace:	C:\Labfiles60\eXchange\WBIAdapters	\workspaceRels		•	Browse
			ОК		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).

🚯 Business Integration - IBM WebSphere Integration Developer	
<u>Eile Edit N</u> avigate Se <u>a</u> rch <u>P</u> roject <u>R</u> un <u>W</u> indow <u>H</u> elp	
Beloome ×	
WebSphere. Integration Developer	

- ____d. Ensure you are in the **Business Integration** perspective.
- ____e. If this lab requires you to import a project interchange file, set up the required libraries and modules for this lab by importing the project interchange file **<PROJECT_INTERCHANGE>**.
- ____f. Select File -> Import... from the menu bar.
- ____g. Scroll down and select **Project Interchange** in the Import dialog.

🔂 Import	×
Select Import a project and its dependent projects from a Zip file.	Ľ
Select an import source: Log File Performance Call Graph Probe Profiling file Profiling file RAR file	
< <u>B</u> ack <u>N</u> ext > Einish	Cancel

___h. Click Next.

____i. In the Import Projects dialog, initialize the From zip file: field to <PROJECT_INTERCHANGE>.

____j. Click the **Select All** button.

🚯 Import Project Intere	change Contents	×
Import Projects Import Projects from a zip	file.	
	Labfiles60\eXchange\WBIAdapters\Solution\Mapp	Browse
CleansePublishLibra		
Select All Deselect All	Select Referenced	
	< <u>B</u> ack <u>N</u> ext > <u>Finish</u>	Cancel

___ k. Click Finish.

If this lab requires that you create a Business Integration module called **<MODULE>**, complete these steps:

- ___I. Right click on the background of the Business Integration view to access the pop-up menu.
- ___ m. Select New > Module.

ta: Busine	ess Integration 🗙			- 8	
		₽	B		
+ 🔁 🖸	leansePublishLibrary				
	New		Þ	📑 Proje	:t
	Open Dependency Editor Show Files		🚝 Modu		
			😭 Librar	у	

____n. In the New Module dialog, enter **<MODULE>** for the Module Name.

Kew 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. Create a new business integration module. A module is a project that is
Module Name SampleModule
- Module Location
✓ Use <u>d</u> efault
Directory; C:\Labfiles60\eXchange\sample\workspace\SampleModule Browse
< <u>Back</u> <u>N</u> ext > <u>Finish</u> Cancel

___o. Click Finish.

If this lab requires that <**MODULE**> needs any <**DEPENDENT_LIBRARIES**>, complete these steps:

- ____p. In the Business Integration view, right click on the **<MODULE>** you just created to access the pop-up menu.
- ____q. Select Open Dependency Editor.



- ____r. In the Dependency Editor, click the **Add...** button.
- ____s. Select from the **<DEPENDENT_LIBRARIES>** list in the Library Selection dialog.
- ____t. Click OK.
- ____u. Press **Ctrl+S** to save the dependencies for this module.

Part 2: Authoring Relationships

In this section you will modify the maps created in the previous lab to contain an identity relationship that will associate a clip type from PeopleSoft with a product type in Siebel. Logically, the relationship will be between the ClipID field in Psft_ClipType and the Key field in Siebel_ProductType. To do this, the relationships are actually tied together using the clipID from the Clip generic business object and defining it as managed. This then becomes the link through which the Relationship Service ties together ClipID in Psft_ClipType and Key in Siebel_ProductType.

- 1. Create a relationship between ClipID in Psft_ClipType and clipID in Clip. To do this, you must change the already existing Move transformation for these fields to a Relationship transformation.
 - ____a. In the Business Integration view, expand **PeopleSoftAdapter > Mapping > Data Maps.**
 - ____b. Double-click on **PsftClipTypeToClip** to open it in the Mapping Editor.

siness obje PsftClip ansformati	ТуреТоСір) 🔊 🗙 두 🚔 1			· · · · · · · · · · · · · · · · · · ·		
Psft_Cli) ••• • •· •• •			○ to to te te te	Clip	
ClipID	string			Move	J.	clipID	string
Clip	string		5	Assign	🛹 Undo	GLN	string
Size	string			Move	🗣 Redo	clip	string
Color	string				Add Connection	size	string
🗉 RetailUnit	s Psft_RetailItem[]			Move	Change Transform Type	<u>، ا</u>	-
version	token			Move			string
delta	boolean		6	Assign	🖋 Cut	brand	string
locale	string		• 7	Submap	🛅 Сору	retailItem	s ClipItem[]
					💼 Paste		
					M Dalaka		
					💢 Delete		

____ c. Right click on the Move between ClipID and clipID and select Delete.

- ____ d. Draw a line from **Psft_ClipType** to **Clip.**
- ____e. Click on the left side of the **Submap** transformation rule.
- _____f. Click on the **Properties** tab in the lower panel and select the **Description** tab.

PsftClipTypeToClip	2 X							
+Business object	map							
PsftClipTyp	eToClip							
Transformations		} 🍠 🗶 🚝 🛱	醫 😑	@ 🔒 🕲	▶ 🗐 🗐	\$ 🕹		
2			-			<u> </u>		
Psft_ClipTy				7 Submap		🕞 Clip		
	ring					clipID	string	
	ring	_		4 Assign		GLN	string	
	ring	_		1 Move	•	clip	string	
	ring	_	_ └─•	2 Move	•	size	string	
	sft_RetailItem[] oken			3 Move	•	color	string	
	oolean	_		5 Assign	•	brand	string	
	ring			6 Submap		retailItem	s ClipItem []	
🔲 Properties 🗙 🖡	Problems Servers							
Description	Transform - 7							
Details	Execution order:	7				-		
Sources/Targets		Submap						
Event Monitor	Transform type:	Custom				· ·		
	1	Custom Callout						
		Custom Assign Relationship						
		Submap						

- ____g. Using the **Transform type** dropdown, change the transformation rule setting from **Submap** to **Relationship.**
- ____h. Expand the **Execution order** dropdown and change its setting to **1** for the Relationship rule.

🔲 Properties 🗙 🛛 P	roblems Servers	
Description	Transform - 7	
Details	Execution order:	
Sources/Targets	Transform type:	Relationship
Event Monitor		

- 2. Click on the **Details** tab.
 - ____a. Click the **New...** button by the Relationship Definition field.
 - ____b. Select the CleansePublishLibrary from the Module dropdown in the New Relationship prompt.
 - ____ c. Type in a **Name** for the new relationship definition: **clipIDRel**.
 - _____d. Ensure that all remaining fields are filled in as shown in the following screen capture.

🚯 New Relationship				
New Relations	-			
Module:	CleansePublishLibrary New			
Name <u>s</u> pace:	http://CleansePublishLibrary/com/clipsandtacks/scn 🔽 Default			
F <u>o</u> lder:	com/clipsandtacks/scm Browse			
N <u>a</u> me:	clipIDRel			
	< <u>Back</u> <u>Einish</u>	Cancel		

- ___e. Click Next.
- ____f. Ensure that the **one-to-one relationship** radio button is selected on the next screen.
- ___g. Click Finish.

🚯 New Relationship	×
Relationship	_
Select the type of the relationship	
A one-to-one relationship between business objects using the unique primary key	
\bigcirc A one-to-one, one-to-many or many-to-many relationship between business objects using	any attribute
Used to transform data attributes according to a static mapping	
< <u>B</u> ack <u>N</u> ext > <u>Finish</u>	Cancel

- ____h. Press Ctrl+S to save the new relationship definition, but do not close the relationship definition yet.
- ____i. You might notice that the relationship is now flagged with an error. This is because no Relationship Roles have been defined yet. This error will be resolved shortly.
- 3. Define the roles in the relationship.
 - ____a. If you closed the **clipIDRel** component, navigate to **CleansePublishLibrary > Mapping > Relationships** in the Business Integration view and double click on **clipIDRel** to open it.
 - _____b. Add a new relationship role by clicking on the **Add Role** icon.

	🚯 Data Type Selection	🚯 Data Type Selection
▼Relationship Detailed properties for this relationship.	Filter by type, namespace, or file # Matching data types:	Filter by type, namespace, or file (? = a * Matching data types:
▼Roles 💭 💭 🛊 🐲 🐲 Add Role	 boolean cleanseAndPublishClip cleanseClip cleanseClipResponse ClipItem date dateTime double 	 double float hexBinary int Psft_ClipType Psft_RetailItem publishClip Siebel_ProductPackage Siebel_ProductType
Properties Problems Servers Description		
Details Name: clipIDRel Properties Targetnamespace: http://CleansePublishLibrary/	Float hexBinary Show all XSD types	string

____ c. In the Data Type Selection dialog, select Clip and click OK.

- _____ 4. Click on the **Add Role** icon again.
 - ____a. Select **Psft_ClipType** in the Data Type Selection dialog.
 - ___b. Click OK.
 - ____c. Press Ctrl+S to save the relationship definition.
 - ____d. Click on the clipIDRel_Psft_ClipType box to select it.
 - ____e. Notice the 4 dots at the corners, indicating it is selected.
 - ____f. Click on the Add Key Attribute icon.
 - ____g. Select **ClipID** in the Select Key Attributes dialog.
 - ___ h. Click **OK.**

PsftClipTypeToClip	🚯 Select Key Attributes	×
→Relationship Detailed properties for this relationship.	Select a new KeyAttribute	
	Element	Туре
		string
Add KeyAttribute	Clip	string
🔹 🖉 🖉 👘 🐨	Size	string
👝 clipIDRel_Clip	Color	string
	RetailUnits	Psft_RetailItem
🗠 CleansePublishLibrary 🕴 🗠 PeopleSoftAdapter	version	token boolean
Clip Dsft_ClipType	delta locale	string
	locale	sang
Properties 🕅 Problems Servers		OK Cancel
Description Role		
Details Name: clipIDRel_Psft_ClipType	Display	Name: clipIDRel_Psft_ClipType
Properties	Folder:	/PeopleSoftAdapter/wbia/asbo

- ____i. Click on the **clipIDRel_Clip** box to select it.
- ___j. Click on the **Add Key Attribute** icon.
- ____k. Select **clipID** in the Select Key Attributes dialog.
- ___ I. Click **OK.**
- ____m. Press Ctrl+S to save the relationship definition.
- ___ n. Ensure that the clipIDRel_Clip box is still selected.
- ____ o. Select the **Properties** tab and then the **Details** property tab.
- ____p. Select the **Managed** checkbox.

_ q. Press Ctrl+S to save the relationship de	efinition and you can now close it.
---	-------------------------------------

-Relationship
Detailed properties for this relationship.
•Roles •
Properties × Problems Servers
Description Role
Details Properties Managed

- ____5. Add a new relationship role to the Relationship transformation in a map.
 - ____a. Switch to the map by clicking on the **PsftClipTypeToClip** tab in the top panel.
 - ____b. Select the **Relationship** transform.
 - ____c. Select **Properties** in the bottom panel and then the **Details** tab.
 - ____d. Use the dropdown box to select clipIDRel_Psft_ClipType for the Role Name.

PsftClipTypeToClip 🛛				
-Business object map				
Transformations \$ ₽ ₽	a 🕹 🖧 🏭 🖓 🕲 🔮 🔮 🖴 📽 🖏			
Psft_ClipType	1 Relationship			
ClipID string	clipID string			
Clip string	5 Assign GLN string			
Size string	2 Move clip string			
Color string	3 Move size string			
RetailUnits Psft_RetailItem[]	4 Move color string	_		
version token	6 Assign • brand string			
delta boolean locale string	• 7 Submap • • retailItems ClipItem []			
locale string				
Properties X Problems Servers				
Description Transform - 7				
Details Relationship definition	clipIDRel			
Sources/Targets Role name: clipIDR	el_Psft_ClipType			
	el Psft ClipType			

____e. Press Ctrl+S to save the map and close it.

- 6. Create a relationship between **clipID** in **Clip** and **Key** in Siebel_ProductType.
 - ____a. In the Business Integration view, expand SiebelAdapter > Mapping > Data Maps.
 - ____b. Double click on **ClipToSiebelProductType** to open it in the Mapping Editor.
 - ____ c. Draw a line from **Clip** to **Siebel_ProductType.**
 - ____d. Click on the right side of the **Submap** transformation rule label.
 - ____e. Select **Description** from the Properties view.

- 🗟 *ClipToSiebelProductType 🗙 **→**Business object map ClipToSiebelProductType ▼Transformations 🖏 🔒 🦻 × 문 😫 🔡 67 🗿 🔒 🛽 😰 🕼 🕌 Siebel ProductType 🐔 Clip 3 Submap Custom clipID string string Custom Callout GLN string 1 Join string Custom Assign Relationship string clip Submap size string s Siebel_ProductPackage [] 2 Subma color string token brand string boolean retailItems ClipItem [] string
- ____f. Change the rule from Submap to **Relationship** using the transformation dropdown.

- ____g. Select the **Properties** tab at the bottom and then click on the **Details** tab.
- ___h. Verify that the Relationship definition field is set correctly to: clipIDRel.

*	P*ClipToSiebelProductType								
₩Bu	isiness obje	ct map							
	🕤 ClipToSie	ebelProductType)						
<u>▼Tr</u>	ansformatio	ons 🗳) 🛱 🅭	X 🖓	*	🗄 🧁 🐣	9 b	\$ 18 \$ \$	
	🖄 Clip				•	3 Relationship		🔹 🕞 Siebel_Produ	ctType
	clipID	string						Key	string
	GLN	string				1 Join		 Description 	string
	clip	string							
	size	string				2 Submap		• 표 ProductPackag	es Siebel_ProductPackage[]
	color	string						version	token
	brand	string						delta	boolean
	retailItems	ClipItem []						locale	string
🔳 Pro	operties 🗙	Problems Server	s						
	ription	Transform	- 3						
Detai		Relationship d	efinition:	clipIDRel					New
	ces/Targets It Monitor	Role name:		clipIDRel				T	

- 7. Define the roles in the relationship.
 - ____a. Double click on **clipIDRel** to open it in the Relationship editor (if already closed).

- ____b. Add a role by clicking on the **Add Role** icon.
- ____ c. Select **Siebel_ProductType** in the Data Type Selection dialog.
- ___ d. Click OK.
- ____e. Click on the new ClipIDRel_Siebel_ProductType role to select it.
- _____f. Notice the 4 dots at the corners indicating it is currently selected.
- ____g. Click on the Add Key Attribute icon.
- ___h. Select Key In the Select Key Attributes dialog.
- ___i. Click OK.
- ____j. Press Ctrl+S to save the relationship definition.
- ____k. Click the X button on the **clipIDRel** relationship tab to close the saved relationship definition.

🍪 Business Integration - clipIDRel - IBM We				
File Edit Navigate Search Project Run W	indow Help			
] 📬 • 🗟 🚊] 🗟 •] 💣] 💁 •] 🛪	?]*\$⇒ ◆ → +] & ↔			
E Business Integration 🛛 🗖	ClipToSiebelProductType	ClipIDRel ×		
CleansePublishLibrary CleansePublishLibrary		ationship.	clipIDRel_Siebel_Produ SiebelAdapter Siebel_ProductType Key	
	Description	Role	ProductType Display Name	
Roles	Details Name: clipIDRel_siebel_ProductType Display Properties Iargetnamespace: http://SiebelAdapter/wbia/asbo Folder			

- 8. Add the new relationship role to the map.
 - ____a. Switch to the map by clicking on the *ClipToSiebelProductType tab in the top panel.
 - ____b. Select the **Relationship** transformation rule.
 - ____c. Select **Description** from the Properties view.
 - _____d. Change the **Execution order** setting to **1** for the Relationship rule from the drop down.
 - ____e. Select the **Properties** in the bottom panel and then the **Details** tab.

- ____f. Use the drop down box to select **clipIDRel Siebel_ProductType** for the Role Name.
- ____g. Press **Ctrl+S** to save the modified map.
- ____h. Click the **X** button on the map tab to close the saved map definition.

*	P*ClipToSiebelProductType 🛛					
₩Bu	→Business object map					
(🎒 ClipToSie	ebelProductType				
<u>▼T</u>	ransformatio	ons 4	à & ♪ × ₽ \$ \$ \$ = @ @ @ \$ 2 @ \$ =			
	🖄 Clip		1 Relationship 🔷 🛱 Siebel_ProductType			
	clipID	string	Key string			
	GLN	string	2 Join Description string			
	clip	string				
	size	string	● 3 Submap ● ① ProductPackages Siebel_ProductPackage []			
	color	string	version token			
	brand	string	delta boolean			
	retailItems ■	; ClipItem []	locale string			
💷 Pr	operties 🗙	Problems Serve	ers			
Desc	ription	Transform	1-3			
Deta	ails	Relationship	definition: clipIDRel			
I	rces/Targets ht Monitor	Role name:	clipIDRel_Siebel_ProductType clipIDRel_Psft_ClipType clipIDRel_Siebel_ProductType			
			alipiokei Siedel Producciype			

Part 3: Completing the Relationship Picture

What you did in the previous section showed you how to go through the authoring process for a Relationship. However, there is more work that is required to complete the relationship story. In this section you examine what additional work is needed without having you go through the actual authoring steps needed to create the rest of the artifacts. Then in Part 4 you will import them and run the tests.

Since you do not import these until Part 4, you will not see them in WebSphere Integration Developer at this time. Simply read through Part 3 to understand what is required.

Start by looking at the **PublishToOutboundRequest** interface map that you created in the previous lab on mapping.

🗈 PublishToOutboundRequest 🗙		6
•Operation mappings		
Connect operations to define mappings.		
Publish publishClip		OutboundRequest sendSiebel_ProductTypeRequest
➡Parameter mappings		
Connect parameters to define mappings.		
🎲 publishClip		<pre>sendSiebel_ProductTypeRequest</pre>
inClipBG ClipBG	map	Siebel_ProductTypeRequest Siebel_ProductTypeBGElement
		Siebel_ProductTypeResponse Siebel_ProductTypeBGElement
		Siebel_ProductTypeFault Siebel_ProductTypeFaultElement
Properties & Problems Servers		▼ □ □
General Parameter Mapping	J	
Advanced Business Object Map:	ClipBGToSiebelProductTypeBG	New
Event Monitor Map inputs:		Map outputs:
Map input	Input parameter	Output parameter Map output
ClipBG	inClipBG	Siebel_ProductTypeRequest Siebel_ProductTypeBG

The inClipBG parameter is mapped to the **Siebel_ProductTypeRequest** parameter on the request. However, the **Siebel_ProductTypeResponse** parameter is not mapped to anything on the response. In a create scenario, there is no key associated with the **Siebel_ProductType** business object until the response comes back from Siebel. There must be a mapping operation to map the Siebel_ProductType being returned to a Clip. It is during this mapping operation that the relationship is updated with the new key value.

Probably the best way to start explaining this would be to start with the wiring diagram. This is what your wiring diagram currently looks like.

🐣 PublishToOutboundRequest 😽 Assembly Diagram: SiebelAdapter 🗙	E			
PublishToOutboundRe	quest 🛃			
Properties 🕅 Problems Servers 🗸 🔽 🗖				
Description	interface mediation)			
Details Implementation	Details Qualifiers Event Monitor			
	Properties			

First, you are going to need three data maps to map between the Siebel ASBOs and the GBOs. In order for those maps to be invoked, the **PublishToOutboundRequest** interface map must be able to return a ClipBG. This will require a new interface on the input side. The introduction of the new interface will force another interface map to be introduced to map between the Publish interface and itself. So the list of artifacts needed would be:

- Interface
 - **RequestResponseFacadeClipBG** has ClipBG as input & output parameters.

	🕄 Assembly Diagram: SiebelAdapter	RequestResponseFa	cadeClipBG 🗙 🗖
▼Define Operation(s) Define Operations and their cor	🗱 🐉 🔊 ऺ 😹 📰	CleansePublishLibrary/c	om/clipsandtacks/scm/RequestResponseFacadeClipBG.wsdl
	Name		Туре
	5		
Input(s)	requestClipBG		ClipBG
🕼 Output(s)	responseClipBG		ClipBG
Properties & Problems S Description V Operati			▼ □
Details Operation Typ	e O One V	Way 💿 Request Respo	onse

- Interface Maps
 - **RequestResponseFacadeToOutboundRequest** replaces the existing **PublishToOutboundRequest** interface mapping.

*RequestRespor	seFacadeToOutboundRequest 🗙	6
▼Operation map Connect operation	ppings ====================================	
	estResponseFacadeClipBG esponseClipBG	OutboundRequest sendSiebel_ProductTypeRequest
▼Parameter ma Connect paramete	ppings rs to define mappings.	
🏶 Request	ResponseClipBG	sendSiebel_ProductTypeRequest
 requestCl response 		Siebel_ProductTypeRequest Siebel_ProductTypeBGElement Siebel_ProductTypeResponse Siebel_ProductTypeBGElement Siebel_ProductTypeFault Siebel_ProductTypeFaultElement
Properties 🛛	Problems Servers	• ⁻ -
General	Parameter Mapping	
Advanced	Business Object Map: ClipBGToSiebelProductTypeBG	▼ New
Event Monitor	Map inputs:	Map outputs:
	Map input Input parameter ClipBG requestClipBG	Output parameter Map output Siebel_ProductTypeReq Siebel_ProductTypeBG
	< F	₹ E

RequestRespons	seFacadeToOutboundRequ	Jest 🗙		6
▼Operation map	ppings 📃			
Connect operation	is to define mappings.			
(I) Requ	iestResponseFacadeClipB0	5		
RequestR	esponseClipBG			sendSiebel_ProductTypeRequest
→Parameter ma				
Connect paramete	ers to define mappings.			
🏶 Request	ResponseClipBG		🏶 ser	dSiebel_ProductTypeRequest
requestC	lipBG ClipBG	map	Sieb	el_ProductTypeRequest Siebel_ProductTypeBGElement
📫 response	ClipBG ClipBG	map	rito Sieb	el_ProductTypeResponse Siebel_ProductTypeBGElement
			🔀 Sieb	el_ProductTypeFault Siebel_ProductTypeFaultElement
Properties 🛛	Problems Servers			▼ □ □
Ganaval	Parameter Mapping			
General Advanced	Business Object Map:	SiebelProductTypeBGToClipBG	• New	
Event Monitor	Business Object Map;	Diepeinfounct/ypeparoclippa	New	
	Map inputs:		Map outputs:	
	Map input	Input parameter	Output parameter Ma	p output
	Siebel_ProductTypeBG	Siebel_ProductTypeResponse	responseClipBG Clip	BG ▶

• **PublishToRequestResponseFacade** – to map from the export to the new interface map.

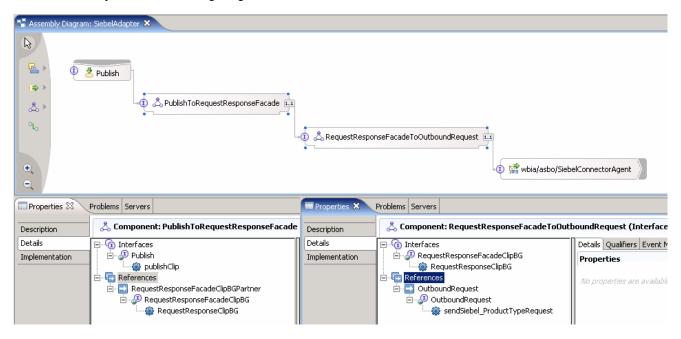
PublishToRequestResponseFacade ×	
Connect operations to define mappings.	
(I) Publish	RequestResponseFacadeClipBG
publishClip	▶ RequestResponseClipBG
Parameter mappings Connect parameters to define mappings. Parameter by the second s	 RequestResponseClipBG requestClipBG responseClipBG ClipBG
Properties 23 Problems Servers General Parameter Mapping Event Monitor Parameter Mapping Type: move	Ţ

- Data Maps
 - SiebelProductTypeBGToClipBG top-level map for the BG.

🗄 Business Integration 🛛 🛛 🖶 🗁 🖃 💌 🗖	SiebelProductTypeBGToClipBG ×	
	▼Business object map	
	▼Transformations 🔰 💭 🎝 🔰 🗶 🗦 🗮 🗦 🚔 🚇 🚇 🚇	@ ## & \$ ≡
면·월·명·원 PeopleSoftAdapter 년·원 SiebelAdapter	Vec Siebel_ProductTypeBG	ClipBG
⊕-ਉਤੇ SiebelAdapter ⊕-case Business Logic	verb string 1 Move ⁽²⁾ Siebel_ProductType ⁽²⁾ Submap	verb string
⊕-∰ Data Types ⊕-∰ Interfaces	changeSummary	changeSummary
⊡	eventSummary Key string	eventSummary
	Description string	clipID string GLN string
ClipItemToSiebelProductPackage	ProductPackages Siebel ProductPackage []	GLN string clip string
	version token	size string
	delta boolean	color string
	locale string	brand string
⊡		retailItems ClipItem []
RequestResponseFacadeToOutboundRequest Relationships ⊕-ਜ. Roles	Transform source Submap input variable Tran	nap outputs: Isform target Submap output va
References 🛛 Outline Visual Snippets 🗖 🗖	Siebel_ProductTypeBG/Siebel_ProductType Siebel_ProductType ClipE	3G/Clip Clip

• SiebelProductTypeToClip – submap for the parent BO – contains the relationship.

	BGToClipBG	SiebelProductTy	peToClip 🗙				
→Business object n	пар						
SiebelProduc	tTypeToClip						
■Transformations	\$	3 🔊 🗙	F 🛱 🕸	1 🖴 🗿 🔒 🛽	⊯ I≋ I≣	₽ 🍫	
🖄 Siebel_Produ	uctType			 1 Relationship 		🗝 🛱 Clip	
Кеу	string					clipID string	
Description	string	_				GLN string	
				• 2 Extract		 clip string 	
	jes Siebel_ProductP	Package []		 3 Extract 		 size string 	
delta	token boolean			 4 Extract 		 color string 	
locale	string					brand string	
locale	scring			 5 Submap 		• 🕀 retailItems ⊂lipItem []
Properties 🛛 Pr	oblems Servers						▼ □
Description	Transform - 1						
Details	Delevier de la de Cet	ition: clipIDRel				blaus	
Sources/Targets	Relationship defini	tion: ClipitoRei			•	New	
Event Monitor	Role name: Clip	IDRel_Siebel_Pro	ductType		•		
o Sieb	elProductPa	ackageToC	lipltem –	submap for the o	child BO.		
			•				
SiebelProductType	BGToClipBG 🛛 🕤	*SiebelProductT	ypeToClip	SiebelProductPackag	eToClipItem 🛛		
→Business object n	пар						
	:tPackageToClipItem						
	crackage rocipiten						
■Transformations	\$	3 🔊 🗙	F 🗳 🗟	🖴 🦓 😩 🛽	▶ 🕸 🕸 🖄	<i>₽</i> ₽ ≡	
🖄 Siebel_Produ	uctPackage				C	ClipItem	
GlobalIdenfier						emID string	
PackageDescri				• 1 Move		TIN string	
Price	string					ackage string	
AvailabilityStar	rt string					uantity string	
AvailabilityEnd	string			• 2 Move		ullDescription string	
Contact	string		_ └──	• 3 Move	• Р	rice string	
version	token			• 4 Move		tartDate string	
delta	boolean			 5 Move 		ndDate string	
locale	string					ontactFirstName string	
				• 6 Extract			
				• 7 Extract		ontactLastName string	
Properties X Pr	oblems Servers						▼ - □
Description	Transform - 7						
Details	Delimiter:]
Sources/Targets	[1					
	Substring index.	1]
Event Monitor		1 XXX HXH XXX					



The **SiebelAdapter** module wiring diagram would now look like this:

The new PeopleSoftToSiebelPassThru module wiring diagram would look like this:

🚯 Business Integration - Assembly Diagram: PeopleS	oftToSiebelPassThru - IBM WebSphere Integration Developer
File Edit Navigate Search Project Run Window Hel	p
] 📬 • 📄 📥 🛛 📾 🕇 🖆 🗍 🖓 • 🗍 🛷 🗍	$\leftarrow \Leftrightarrow \bullet \to \bullet \mid \diamondsuit \Leftrightarrow \equiv$
🕼 Business Integration 🛛 🕀 🗁 🖃 🖛 🖓	😵 Assembly Diagram: PeopleSoftToSiebelPassThru 🛛
CleansePublishLibrary CleansePublishLibrary Clean Clean CleansePublish Publish Publish RequestResponseFacadeClipBG PeopleSoftAdapter PeopleSoftToSiebelPassThru PeopleSoftToSiebelPassThru CleansePublish Data Types Request Types Request Types Request Types Request Types Request Types Request Types Request Types Request Types Request Types	CleansePublish CleansePublish CoPublish CoPublish CleansePublish
i⊇ 🏡 Mapping 	Properties X Problems Servers
CleansePublishToPublish → CleansePublishToPublish → Relationships → Roles B - P SiebelAdapter	Description Import: Publish (SCA Binding) Details Module name: SiebelAdapter Binding Export name: com/clipsandtacks/scm/Publish Browse

🍜 *Assembly Diagram: PeopleSoftAdapter 🗙		
		CleansePublish
Sing Wola/asbo/Psrt.connectorDeliveryHub	SCA Export Selection Choose a SCA Export (? = any character, * = any String): * Matches: CleansePublish CleansePublish Publish Qualifier: PeopleSoftToSiebelPassThru/com/clipsandtacks/scm/c	 Undo Layout Contents Redo Add Interface Replace Binding Remove Binding Select Service to Import Copy Paste Delete Rename Select All Wire References to New Wire to Existing Wire (Advanced)
	OK Cancel	Test Component

The PeopleSoftAdapter module wiring diagram would now look like this:

Part 4: Initialize the Workspace for the Testing Exercise

To complete the exercise, you would need to author everything that was described in Part 3. Rather than having you do that, a Project Interchange file has been provided which contains both of the mappings and relationships for PeopleSoft and Siebel along with the additional interfaces and mediations described in Part 3.

____1. Follow the directions below to initialize the Workspace using the following values:

<WORKSPACE>

C:\Labfiles60\eXchange\WBIAdapters\workspaceRelsComplete

<PROJECT_INTERCHANGE>

C:\Labfiles60\eXchange\WBIAdapters\Solution\ Relationships_PI.zip

<MODULE>

n/a

<DEPENDENT_LIBRARIES>

n/a

3. Start WebSphere Integration Developer V6.0.1 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 called a workspace. Select the workspace directory to use for this session.
Workspace: C:\Labfiles60\eXchange\WBIAdapters\workspaceRelsComplete 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.
- ____e. 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>.
- ____f. From the menu bar, select File -> Import...
- ____g. In the Import dialog, scroll down and select Project Interchange.

🦺 Import	×
Select Import a project and its dependent projects from a Zip file.	Ľ
Select an import source:	
 Log File Performance Call Graph Probe Profiling file Profiling filter Project Interchange RAR file 	
< <u>B</u> ack <u>N</u> ext > Einish	Cancel

- ___h. Click Next.
- ____i. In the Import Projects dialog, initialize the From zip file: field to <PROJECT_INTERCHANGE>.
- ____j. Click the Select All button.

🚯 Import Project Ir	nterchange Contents	×
Import Projects		
Import Projects from	a zip file.	J.
From zip file:	C:\Labfiles60\eXchange\WBIAdapters\Solution\Relat	Browse
Project location root:	C:\Labfiles60\eXchange\WBIAdapters\workspaceRelsCc	Browse
 ✓ (⇒ CleansePublish ✓ (⇒ PeopleSoftAda ✓ (⇒ PeopleSoftTos ✓ (⇒ SiebelAdapter ✓ (⇒ websphere_data) 	apter SiebelPassThru	
Select All Deselect	ct All Select Referenced	
	< <u>B</u> ack <u>M</u> ext > <u>Finish</u>	Cancel

- ___ k. Click Finish.
- ____3. At this point you should be able to use the editors without instructions to examine the imported artifacts. Look at:

SiebelAdapter assembly diagram

RequestResponseFacadeClipBG Interface

PublishToRequestResponseFacade Interface Map

RequestResponseFacadeToOutboundRequest Interface Map

SiebelProductTypeBGToClipBG BG Map

SiebelProductTypeToClip BO Map (submap)

SiebelProductPackageToClipItem BO Map (submap)

- _____4. Add your projects to the server configured projects
 - ____a. Right click the WebSphere Process Server v6.0 server and select Add and Remove Projects.
 - ____b. If you receive a message stating that there are no projects to configure, do the following:

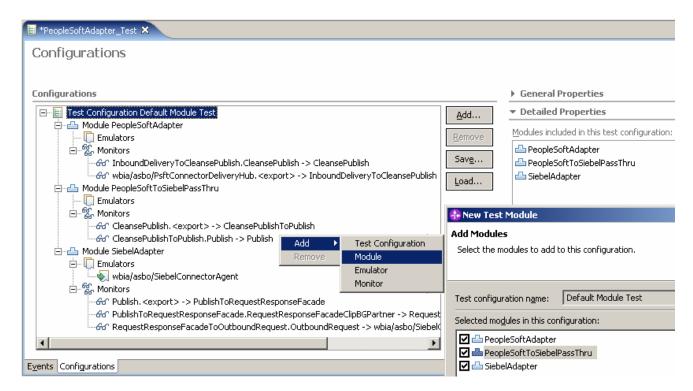
IBM WebSphere Process Integration 6.0 – Lab Exercise

- 1) From the WebSphere Integration Developer main menu, select **Project** and disable (uncheck) **Build Automatically**
- 2) From the main menu, select Project and then select Clean... then Clean All Projects
- 3) From the main menu, select Project and then select Build All
- 4) After the re-build, select **Project** in WebSphere Integration Developer menu and enable (check) **Build Automatically**
- ____ c. Click the **Add All** >> button to add the projects to the configured list.
- ____d. Click Finish.
- ____e. Wait for the server to publish the projects and to fully start (Server is ready...).

If using a remote testing environment, follow the directions provided in <u>Task: Adding Remote</u> <u>Server to 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.

Properties Problems S	5erve	ers 🧮 Console 🗙
WebSphere Process Ser	rver	v6.0 [WebSphere v6.0 Server] WebSphere Process Server v6.0 (WebSphere v6.0)
SCA	I	CWSCA3009I: The SCA module PeopleSoftAdapterApp is starting.
SCA	Ι	CWSCA3010I: The SCA module started successfully.
ApplicationMg	A	WSVR0221I: Application started: PeopleSoftAdapterApp
SystemOut	0	Connecting debugger to WebSphere Process Server v6.0 localhost:7777
SystemOut	0	Server is ready for debugging
•		

- 5. Configure the Test Component to unit test your projects.
 - ____a. Right click the PeopleSoftAdapter module and select **Test > Test Module** from the menu.
 - ____b. Select the **Configurations** tab at the bottom of the Test Component view.
 - ____ c. Right click the test configuration top level node and select **Add > Module** from the menu.
 - ____ d. Click **Next** at the initial prompt.
 - ____e. Click the Select All button to add the missing two modules to this test configuration.
 - ___f. Click Finish.



- 6. Right click the **Module SiebelAdapter** node and select **Add > Emulator** from the menu.
 - _____a. Click **Next** at the initial prompt.
 - ____b. Change the **Emulate** radio button option to **Components.**
 - ___ c. Enable (select) the wbia/asbo/SiebelConnectorAgent component.
 - ____ d. Click Finish.

🚯 New Emulator	🚯 New Emulator
Select a Module Select a module where new emulators will be created.	Add Emulators Select the references, components, and imports to emulate in this module.
Select a module to continue:	Module ngme: SiebelAdapter Emulate ©Components Emulated components and imports in this module:
< Back Next > Einish Cancel	< <u>B</u> ack <u>N</u> ext > <u>Finish</u> Cancel

- _____7. Invoke the Test Component and unit test your projects.
 - ____a. Select the **Events** tab at the bottom of the Test Component view.
 - ____b. Make sure that the **Detailed Properties** match with the following screen capture.
 - ____ c. You might have to select the **Component** under Detailed Properties as **InboundDeliveryToCleansePublish** using the drop down menu.
 - ____d. Provide sample data for the Psft_ClipTypeBGElement, you must provide the **verb** (such as Create) and a unique **ClipID** value.

Events			å⊳ 4₽ 4€ ⊞
vents	General Properties		
	▼ Detailed Propertie	;	
	<u>C</u> onfiguration: <u>Default</u>	Module Test	
	Module: People:	oftAdapter	
	Component: Inboun	dDeliveryToCleansePublish	
	Interface: Inboun	dDelivery	
		dPsft_ClipTypeDelivery_	
	I <u>n</u> vocation parameters		
	Name	Туре	Value
	Psft_ClipTypeBGEle	nent Psft_ClipTypeBG	
	verb	VerbType	Create
	□ Psft_ClipType	Psft_ClipType	
	ClipID	ClipIDType	101
	Clip	ClipType	clipp
	Size	SizeType	ssize
	Color	ColorType	collor
	RetailUnits	Psft_RetailItem [] Boolean	<null> false</null>
	locale	String	Taise
	version	String	
	Version	burng	

____e. Click the **Continue** button beneath the Invocation parameters view.

_____f. Select each module that does not have the deployment location and then click Select Location.

Deployment Location	🚯 Deployment Location 🔀
Select Deployment Location per Module For each module, specify a runtime location where this test will deploy.	Select Deployment Location This server instance is currently debugging.
Select a deployment location for each module: PeopleSoftAdapter PeopleSoftToSiebelPassThru No deployment location is selected> Select Location Select Location Select Location	Deployment location: Image: Server v6.0 Mode: Debug
Use this as the default and do not ask again	
Finish Cancel	Finish Cancel

____g. Select the appropriate WebSphere Process Server on which you want to deploy the application. This is especially true for z/OS, AIX, Solaris remote test environment, where the WebSphere Integration Developer will be remote to the test environment. Click **Finish**

Note: If you get exceptions in the test component window, stop and close the test component and then restart the server with the applications still added to the server. When the server finishes restarting, continue from step 4 in part 4. If using a remote testing environment, follow the directions provided in <u>Task: Adding Remote</u> <u>Server to WebSphere Integration Developer Test Environment</u> (at the end of this document) to restart a server.

- 8. Observe the Test Component start routine and wait for it to reach the Emulator event.
 - ____a. Examine the already run events once the Test Component pauses.

Events
Invoke (InboundDeliveryToCleansePublish:receivedPsft_ClipTypeDelivery) Started Started Invoke (InboundDeliveryToCleansePublish:receivedPsft_ClipTypeDelivery) Request (InboundDeliveryToCleansePublish:receivedPsft_ClipTypeDelivery) Request (InboundDeliveryToCleansePublish:receivedPsft_ClipTypeDelivery) Request (CleansePublish> CleansePublish:cleanseAndPublishClip) Request (CleansePublishToPublish:receivedPsft_ClipTypeDelivery) Request (CleansePublishToPublish:receivedPsft_ClipTypeDelivery) Request (CleansePublish:receivedPsft_ClipTypeDelivery) Request (CleansePublish:receivedPsft_ClipTypeDelivery) Request (CleansePublish:receivedPsft_ClipTypeDelivery) Request (CleansePublish:receivedPsft_ClipTypeDelivery) Request (CleansePublish:receivedPsft_ClipTypeDelivery) Request (Publish:receivedPsft_ClipTypeDelivery) Request (Publish:receivedPsft_ClipTypeDelivery) Request (Publish:receivedPsft_ClipTypeDelivery) Request (Publish:receivedPsft_ClipTypeDelivery) Request (Publish:receivedPsft_ClipTypeDelivery) Request (Publish:receivedPsft_ClipTypeDelivery) Request (PublishToRequestResponseFacade:publishClip) Request (PublishToRequestResponseFacade:r-> RequestResponseFacadeToOutboundRequest:RequestResponseClipBG) Pi Emulate (wbia/asbo/SiebelConnectorAgent:sendSiebel_ProductTypeRequest)
b. Select the Emulate (wbia/asbo/SiebelConnectorAgent:sendSiebel_ProductTypeRequest) event.

____ c. Scroll down in the **Detailed Properties** view and locate the **Output parameter** view.

- ____d. You must provide the response data emulating the Siebel Adapter responding to the system. This can be done by doing a copy of **Siebel_ProductTypeBGElement** in the Input Parameters and then doing a paste to **Siebel_ProductTypeBGElement** in the Output Parameters.
- ____e. Ensure you entered the correct **verb** when starting the Test Component (Create).
- _____f. Enter a unique Siebel **key** value (emulating the Siebel application creating a new entry in its data store). For example, 1001 as shown in the screen capture.

Pequest (CleansePublish> CleansePublishToPublish:deanseAndPublishClip) Pequest (CleansePublishToPublish> Publish:publishClip) Pipi Request (Publish> PublishToRequestResponseFacade:publishClip) Pipi Request (PublishToRequestResponseFacade> RequestResponseFacadeToOu Pi Request (wbia/asbo/SiebelConnectorAgent:sendSiebel_ProductTypeRequest)	Target component: <u>wbi</u> Target interface: <u>Out</u>	et component: <u>wbia/asbo/SiebelConnectorAgent</u> et interface: <u>OutboundReguest</u> et operation: <u>sendSiebel ProductTypeReguest</u>			
	Name	Туре	Value		
	Siebel_ProductTyp	Siebel_ProductTypeBG			
	verb	VerbType	Create		
	Siebel_Product	Siebel_ProductType			
	Key	КеуТуре	<null></null>		
	Description	DescriptionType	sze clp col		
	ProductPack	-	<null></null>		
	delta	Boolean	false		
	locale	String			
	version	String	0.0.0		
	Output parameters				
	Name	Туре	Value		
		Siebel_ProductTypeBG			
	verb	String	Create		
	Siebel_Product	Siebel_ProductType			
	Key	string	1001		
	Description	string	size color clip		
	I ProductPack	Siebel ProductPack	<null></null>		

- ____g. Click the **Continue** button and observe the Test Component finishing up the unit test flow.
- ____h. Select the first **Response** event and verify the response Siebel data sent back to the system.

ts	General Propertie	25	
👬 Invoke (InboundDeliveryToCleansePublish:receivedPsft_ClipTy	 Detailed Properti 	es	
Started S	Source component: Source reference: Target component: Target interface:	SiebelAdapter RequestResponseFacade DutboundRequest vbia/asbo/SiebelConnecti DutboundRequest sendSiebel ProductTypeR	or Agent
Stopped	Name	Туре	Value
	Siebel_ProductT	Siebel_ProductTyp	
	verb	VerbType	Create
	Siebel_Produc.	Siebel_ProductType	
	Key	КеуТуре	1001
	Description	DescriptionType	ssize clipp collo
	ProductPa	-	<null></null>
	delta	Boolean	false
	locale	String	
	version	String	

____i. Select the second **Response** event and verify that the response ClipBG object unique key (clipID) matches the unique key value that assigned to the request ClipBG by the RelationshipService.

🖶 *PeopleSoftAdapter_Test 🗙			
ents	General Properti	es	
Invoke (InboundDeliveryToCleansePublish:receivedPsft_ClipTyr	Detailed Properti Module:		
 Invoke (InboundDeliveryToCleansePublish:receivedPsft Request (InboundDeliveryToCleansePublish> Cleanse Request (CleansePublish> CleansePublishToPublish:cli Request (CleansePublishToPublish> Publish:publishCli Request (Publish> PublishToRequestResponseFacade Request (PublishToRequestResponseFacade> Reque Request (wbia/asbo/SiebelConnectorAgent:sendSiebel_ 	Source component: Source reference: Target component: Target interface:	SiebelAdapter PublishToRequestRe RequestResponseFa RequestResponseFa RequestResponseFa RequestResponseCli	cadeClipBGPartner cadeToOutboundRequest cadeClipBG
Response (RequestResponseFacadeToOutboundReque Response (PublishToRequestResponseFacade < Requ Stopped	Response parameters	-	Value
Stopped	responseClipBG	ClipBG	value
	verb	VerbType	Create
	clipID	ClipIDType	1
	GLN	GLNType	<null></null>
	dip	ClipType	clipp
	size	SizeType	ssize
	color	String	collor
	brand	BrandType	<null></null>
	retailItems	ClipItem []	<null></null>

- 9. Rerun the Invocation from within the already configured Test Component several times, using unique values for both PeopleSoft and Siebel BG primary keys each time.
- _____ 10. Right click the server and **Remove all** projects from your server instance.
- _____ 11. Stop the server before proceeding with the next exercise.
 - ____a. Right click on WebSphere Process Server v6.0 server from the Servers view and select Stop from the context menu.
- _____12. Examine the Relationship data stored in the WPSDB database (in Cloudscape).
 - ___a. In Windows Explorer, navigate to <WID_HOME>\runtimes\bi_v6\cloudscape\bin\embedded.
 - ____b. Double-click the cview.bat file to start the Cloudview utility to manage Cloudscape databases.
 - ___ c. Select File > Open... and navigate to <WID_HOME>\runtimes\bi_v6\cloudscape\databases.
 - _____d. Select the **WPRCSDB** database and click **Open**.
 - ____e. Expand the **Tables** node and examine the list of existing database tables.
 - ____f. Select the **CLIP_S_***** table and then select the **Data** tab in the right view pane. This table stores the sequence counter for the managed clipID relationship role.

2 <mark>77</mark> Cview		- D ×
File Edit View Help		
System C:Program Files VBMWVebSphereV CLIP_CLIP_P_A1A995D6C CLIP_CLIP_P_F5B362B99: CLIP_CLIP_RT_F5B362B99: CLIP_CLIP_RT_F5B362B99: CLIP_P_98FBE11D12ECB CLIP_S98FBE11D12ECB CLIP_S98FBE11D12ECB FAILEDEVENTBOTYPES FAILEDEVENTBOTYPES FAILEDEVENTS FAILEDEVE	Action New Delete Table Properties SOL Data D 1 2 1 1 2 1 2 1 1 2 1 1 2 1 2 1 1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1	

_____a. Select the **CLIP_CLIP_RT_***** tables and examine their content. These tables store the relationship information for the non-managed relationship roles.

2 <mark>8</mark> Cview									
File Edit View Help									
System	Table								
€ CLIP_CLIP_RT_F5B362B9	P	ROLEID	INSTANCEID	STATUS	LOGICAL_STATE	LSTATE_TSTAMP	UPDT_TSTAMP	TSTAMP	PSFT_CLIPTYPE_CLIPID
CLIP_P_98FBE11D12ECB	1	1	1	0	0			2005-07-20 09:3	3:55 101
ELIP_S_98FBE11D12ECB	2	2	2	0	0			2005-07-20 09:3	9:02 102
FAILEDEVENTBOTYPES FAILEDEVENTMESSAGE									
2 <mark>9</mark> Cview									
File Edit View Help									
System	Table								
CLIP_CLIP_RT_F5B362B9	7	ROLEID	INSTANCEID	STATUS	LOGICAL_STATE	LSTATE_TSTAMP	UPDT_TSTAMP	TSTAMP	SIEBEL_PRODUCTTYPE_KEY
CLIP_P_98FBE11D12ECB ⁴	1	1	1	0	0			05-07-20 09:35:07	1001
ELIP_S_98FBE11D12ECB		2	2	0	0			05-07-20 09:39:15	1002
⊕- FAILEDEVENTBOTYPES ⊕- FAILEDEVENTMESSAGE ⊕- FAILEDEVENTS						·			

_____13. Select **File > Exit** to close the Cloudview utility when done examining the relationship data.

What you did in this exercise

You learned how to author identity relationships and how they are associated with data maps. You also learned about the requirements for an identity relationship to be completed during a create flow. Because the original design did not account for this, the design changes required were imported.

Solution Instructions

There are no solution instructions for this lab exercise.

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.

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		🌣 🕥 🤣	🍫 🔳 🙌 📪 🗖
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	-
Select the server type:	
Image: Server v6.0 I	ew By: Vendor
Description: WebSphere Process v6.0 Server	
5	
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	
O SOAP (More firewall compatible)	
SOAP connector port: 8880	
Run server with resources within the workspace	
Kurrserver wurresources wurnnune workspace Security is enabled on this server	
Current active authentication settings;	
User ID:	
Password:	
Server name: server1	
 BASE, Express or unmanaged Network Deployment server 	
© 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.

erver		Host name	Status	State
1 WebSphere ESB Server v6.0	2	localhost	🛅 Stopped	Synchronized
WebSphere Process Server v6.0		localhost	🛅 Stopped	Synchronized
WebSphere Process v6.0 Server @ mvsxxx.rtp.ral		mvsxxx.rtp.raleigh.ibm.com	Started	Synchronized

Start the remote server if it is not already started. WebSphere Integration Developer does not support starting remote servers from the Server View.

____i. From a command prompt, telnet to the remote system if needed:

'telnet <HOSTNAME> <TELNET_PORT>'

userid : <USERID>

pw: <PASSWORD>

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

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

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

____I. Wait for status message indicating server has started:

ADMU3200I: Server launched. Waiting for initialization status.

ADMU3000I: Server cllsr01 open for e-business; process id is 000001200000002