Oracle® Fusion Middleware

Application Adapter Upgrade Guide for Oracle WebLogic Server 11*g* Release 1 (11.1.1) **E17392-01**

April 2010



Oracle Fusion Middleware Application Adapter Upgrade Guide for Oracle WebLogic Server, 11g Release 1 (11.1.1)

E17392-01

Copyright © 2009, 2010, Oracle and/or its affiliates. All rights reserved.

Primary Author: Stefan Kostial

Contributing Authors: Sunil Gopal, Marian Jones, Vikas Anand, Sunil Wadhwa, Vishal Saxena, Vimmika Dinesh

This software and related documentation are provided under a license agreement containing restrictions on use and disclosure and are protected by intellectual property laws. Except as expressly permitted in your license agreement or allowed by law, you may not use, copy, reproduce, translate, broadcast, modify, license, transmit, distribute, exhibit, perform, publish, or display any part, in any form, or by any means. Reverse engineering, disassembly, or decompilation of this software, unless required by law for interoperability, is prohibited.

The information contained herein is subject to change without notice and is not warranted to be error-free. If you find any errors, please report them to us in writing.

If this software or related documentation is delivered to the U.S. Government or anyone licensing it on behalf of the U.S. Government, the following notice is applicable:

U.S. GOVERNMENT RIGHTS Programs, software, databases, and related documentation and technical data delivered to U.S. Government customers are "commercial computer software" or "commercial technical data" pursuant to the applicable Federal Acquisition Regulation and agency-specific supplemental regulations. As such, the use, duplication, disclosure, modification, and adaptation shall be subject to the restrictions and license terms set forth in the applicable Government contract, and, to the extent applicable by the terms of the Government contract, the additional rights set forth in FAR 52.227-19, Commercial Computer Software License (December 2007). Oracle USA, Inc., 500 Oracle Parkway, Redwood City, CA 94065.

This software is developed for general use in a variety of information management applications. It is not developed or intended for use in any inherently dangerous applications, including applications which may create a risk of personal injury. If you use this software in dangerous applications, then you shall be responsible to take all appropriate fail-safe, backup, redundancy, and other measures to ensure the safe use of this software. Oracle Corporation and its affiliates disclaim any liability for any damages caused by use of this software in dangerous applications.

Oracle is a registered trademark of Oracle Corporation and/or its affiliates. Other names may be trademarks of their respective owners.

This software and documentation may provide access to or information on content, products, and services from third parties. Oracle Corporation and its affiliates are not responsible for and expressly disclaim all warranties of any kind with respect to third-party content, products, and services. Oracle Corporation and its affiliates will not be responsible for any loss, costs, or damages incurred due to your access to or use of third-party content, products, or services.

Contents

face	v
Audience	v
Documentation Accessibility	v
Related Documents	vi
Conventions	vi
1	face Audience Documentation Accessibility Related Documents Conventions

1 General Upgrade Guidelines

Upgrading a 10.1.3.x Outbound Process to 11g	1-1
Prerequisites	1-1
Overview of 10.1.3.x BPEL JCA Outbound Workflow Process	1-2
Creating an Outbound BPEL Process Project	1-2
Migrating the 10.1.3.x BPEL JCA Outbound Process to a 11g Workflow Process	1-9
Prerequisites	1-9
Overview of Migration to 11g BPEL JCA Outbound Workflow Process	1-9
Migrating an Outbound BPEL Process Project	1-9
Post-Upgrade Requirement	1-14
Upgrading a 10.1.3.x Inbound Process to 11g	1-15
Overview of 10.1.3.x BPEL JCA Inbound Workflow Process	1-16
Creating an Inbound BPEL Process Project	1-16
Migrating an Inbound BPEL Process Project	1-18
Post-Upgrade Requirement	1-23
Overview of Oracle Upgrade Patches	1-23

2 Oracle Application Adapter for SAP R/3 Upgrade Guidelines

Upgrading a 10.1.3.x ESB J2CA Outbound Process to 11g	2-1
Upgrading a 10.1.3.x ESB J2CA Inbound Process to 11g	2-3
Upgrading a 10.1.3.x BPEL J2CA Outbound Process to 11g	2-5
Upgrading a 10.1.3.x BPEL J2CA Inbound Process to 11g	2-7

3 Oracle Application Adapter for Siebel Upgrade Guidelines

Upgrading a 10.1.3.x ESB J2CA Outbound Process to 11g	3-1
Upgrading a 10.1.3.x ESB J2CA Inbound Process to 11g	3-1
Upgrading a 10.1.3.x BPEL J2CA Outbound Process to 11g	3-9
Upgrading a 10.1.3.x BPEL J2CA Inbound Process to 11g	3-9

4 Oracle Application Adapter for PeopleSoft Upgrade Guidelines

Upgrading a 10.1.3.x ESB J2CA Outbound Process to 11g	4-1
Upgrading a 10.1.3.x ESB J2CA Inbound Process to 11g	4-1
Upgrading a 10.1.3.x BPEL J2CA Outbound Process to 11g	4-4
Upgrading a 10.1.3.x BPEL J2CA Inbound Process to 11g	4-6

5 Oracle Application Adapter for J.D. Edwards OneWorld Upgrade Guidelines

Upgrading a 10.1.3.x ESB J2CA Outbound Process to 11g	5-1
Upgrading a 10.1.3.x ESB J2CA Inbound Process to 11g	5-1
Upgrading a 10.1.3.x BPEL J2CA Outbound Process to 11g	5-6
Upgrading a 10.1.3.x BPEL J2CA Inbound Process to 11g	5-6

Index

Preface

Oracle Fusion Middleware Application Adapter Upgrade Guide for Oracle WebLogic Server describes how to upgrade Oracle Application Adapters for Oracle WebLogic Server from 10.1.3.x to 11g.

Audience

The Oracle Fusion Middleware Application Adapter Upgrade Guide for Oracle WebLogic Server is intended for system administrators who are upgrading Oracle Application Adapters for Oracle WebLogic Server from 10.1.3.x to 11g.

Documentation Accessibility

Our goal is to make Oracle products, services, and supporting documentation accessible to all users, including users that are disabled. To that end, our documentation includes features that make information available to users of assistive technology. This documentation is available in HTML format, and contains markup to facilitate access by the disabled community. Accessibility standards will continue to evolve over time, and Oracle is actively engaged with other market-leading technology vendors to address technical obstacles so that our documentation can be accessible to all of our customers. For more information, visit the Oracle Accessibility Program Web site at http://www.oracle.com/accessibility/.

Accessibility of Code Examples in Documentation

Screen readers may not always correctly read the code examples in this document. The conventions for writing code require that closing braces should appear on an otherwise empty line; however, some screen readers may not always read a line of text that consists solely of a bracket or brace.

Accessibility of Links to External Web Sites in Documentation

This documentation may contain links to Web sites of other companies or organizations that Oracle does not own or control. Oracle neither evaluates nor makes any representations regarding the accessibility of these Web sites.

Access to Oracle Support

Oracle customers have access to electronic support through My Oracle Support. For information, visit http://www.oracle.com/support/contact.html or visit http://www.oracle.com/accessibility/support.html if you are hearing impaired.

Related Documents

For more information, see the following documents in the Oracle Enterprise Repository 11*g* Release 1 (11.1.1) documentation set:

- Oracle Fusion Middleware Application Adapters Installation Guide for Oracle WebLogic Server
- Oracle Fusion Middleware Application Adapter Best Practices Guide for Oracle WebLogic Server
- Oracle Fusion Middleware Application Adapter for SAP R/3 User's Guide for Oracle WebLogic Server
- Oracle Fusion Middleware Application Adapter for Siebel User's Guide for Oracle WebLogic Server
- Oracle Fusion Middleware Application Adapter for PeopleSoft User's Guide for Oracle WebLogic Server
- Oracle Fusion Middleware Application Adapter for J.D. Edwards OneWorld User's Guide for Oracle WebLogic Server
- Oracle's Unified Method (OUM)

A wealth of additional Governance information can be found within Oracle's Unified Method (OUM). OUM can be used by Oracle employees, Oracle Partner Network Certified Partners or Certified Advantage Partners, and Clients who either participate in the OUM Customer Program or are engaged on projects where Oracle provides consulting services. OUM is a web-deployed toolkit for planning, executing and controlling software development and implementation projects.

For more information about OUM, see the OUM FAQ at

http://my.oracle.com/portal/page/myo/ROOTCORNER/KNOWLEDGEAREAS1/BUSIN ESS_PRACTICE/Methods/Learn_about_OUM.html

Conventions

The following text conventions are used in this document:

Convention	Meaning
boldface	Boldface type indicates graphical user interface elements associated with an action, or terms defined in text or the glossary.
italic	Italic type indicates book titles, emphasis, or placeholder variables for which you supply particular values.
monospace	Monospace type indicates commands within a paragraph, URLs, code in examples, text that appears on the screen, or text that you enter.

1

General Upgrade Guidelines

This chapter lists and describes general upgrade guidelines that are common to all Oracle Application Adapters for Oracle WebLogic Server.

This chapter discusses the following topics:

- Upgrading a 10.1.3.x Outbound Process to 11g
- Upgrading a 10.1.3.x Inbound Process to 11g
- Overview of Oracle Upgrade Patches

1.1 Upgrading a 10.1.3.x Outbound Process to 11g

This section describes how to upgrade a 10.1.3.x outbound process to 11g.

Note: For demonstration purposes, Oracle Application Adapter for SAP R/3 is used as an example.

The 10.1.3.x BPEL and Mediator projects for the application adapters should not have any warning or error messages during compilation and deployment with 10.1.3.x version. If any warning or error messages are present, then they must be corrected before migrating the projects to 11g. If you have followed the 10.1.3.x user guides for creating a BPEL or Mediator project, then you would see two warning messages in Oracle JDeveloper at the time of compilation deployment. These warning messages are not acceptable in the 11g environment. Those warning messages are shown because the assign statements were assigning the BPEL/ESB project namespace to the adapter's namespace. This is an incompatible namespace assignment. As a result, any warning or error messages in 10.1.3.x projects must be corrected before migrating to 11g. This section describes how to create 10.1.3.x projects without the warning messages.

1.1.1 Prerequisites

Take a note of the adapter targets and channels that were created in the 10.1.3.x Application Explorer for your application adapters. For the migration to be successful, you must create the same adapter targets and channels in the 11g environment using the Application Explorer.

Before continuing, ensure that the following components are available:

1. Using Application Explorer, export the schemas for a particular business object for Oracle Application Adapter for SAP R/3 into the default location.

2. Using Application Explorer, generate a JCA outbound WSDL for a particular business object for Oracle Application Adapter for SAP R/3.

1.1.2 Overview of 10.1.3.x BPEL JCA Outbound Workflow Process

- 1. Create an outbound BPEL process project.
- **2.** Configure an outbound BPEL process.
- 3. Deploy the outbound BPEL process project.
- 4. Invoke the input XML using the BPEL console.

1.1.3 Creating an Outbound BPEL Process Project

To create an outbound BPEL process project:

1. Start Oracle JDeveloper 10.1.3.4.



2. Click the **Application Navigator** tab and select **New Project** from the context menu.

The New Gallery dialog is displayed.

3. Select the **BPEL Process Project** and then click **OK**.

The BPEL Project Creation Wizard - Project Settings page is displayed.

💩 BPEL Project Creation W	/izard - Project	: Settings 🛛 🗙
	The BPEL Pro design a busi Language) st	ject Creation Wizard alows you to create a project in which you can ness process based on the BPEL (Business Process Execution andard.
	N <u>a</u> me:	Isdsrv2_CC_GD_jca
	Name <u>s</u> pace:	http://xmlns.oracle.com/Isdsrv2_CC_@_jca
	<u>Т</u> уре:	Use Default Project Settings Project Name: Isdsrv2_CC_GD_jca Project Directory: www.sape.cc_GD_jca/ Template Asynchronous BPEL Process Synchronous BPEL Process Empty BPEL Process
Help		< Back Next > Finish Cancel

- 4. Enter a name for the new BPEL process project in the Name field.
- Select Synchronous BPEL Process from the Template Type list and click Next. The BPEL Project Creation Wizard - I/O Elements page is displayed.

💩 BPEL Project Creation W	izard - Input/Output Ele	ments	×
	The default input and out Wizard are listed below, y the default values.	out elements created by the BP ou can browse elements from o	EL Project Creation ther schemas to change
	_nput Schema Element: Output Schema Element:		
Help		< <u>B</u> ack <u>N</u> ext >	<u>Einish</u> <u>C</u> ancel

 Click the Browse icon to the right of the Input Schema Element field. The Select Schema dialog is displayed.

area a select Sc	hema	×
Location:	🗀 tools 🗸 🗸	🖻 🚵 🍱 🔡 🖿
GetDeta	ail_request.xsd ail_response.xsd	
File Name:	GetDetail request.xsd	
File Type:	Schema Files (*.xsd)	•
		Open Cancel

7. Navigate to the default exported schema location:

<soadp1>\adapters\application\tools

8. Select the request XML schema file (.xsd) for the corresponding business object and click **Open**.

The Type Chooser dialog is displayed.

🚖 Type Chooser		X
	*	1
Type Explorer □↓ Imported Schemas □↓ GetDetail_request.xsd □↓ CompanyCode.GetDetail		
<u>Т</u> уре: {urn:sap-com:document:sap:business}CompanyCode.GetDetai		
Show Detailed Node Information		
	⊆anc	e

- **9.** Expand **Imported Schemas**, the request XML schema (for example, **GetDetail**_ **request.xsd**), and then the method (for example, **CompanyCode.GetDetail**).
- **10.** Click **OK**.

You are returned to the BPEL Project Creation Wizard - I/O Elements page.

🚔 BPEL Project Creation Wizard - Input/Oneput Elements 🛛 🛛 🔀			
BPEL Project Creation	Wizard - Input/Output Elec The default input and outp Wizard are isted below, yo the default values. <u>I</u> nput Schema Element: <u>O</u> utput Schema Element:	ments out elements created by the BPE ou can browse elements from ol m:document:sap:business}Con	EL Project Creation ther schemas to change
Help		< Back Next >	Einish Cancel

11. Click the Browse icon to the right of the Output Schema Element field.

The Type Chooser dialog is displayed.

ò Type Chooser		×
		2
V Type Explorer	True	
⊞…🤪 Imported Schemas	1111	ort
Times		=
Tybe:		
Show Detailed Node Information		
Help		

12. Click the **Import Schema** icon.

The Import Schema File dialog is displayed.

ੇ Import Schema File	×
	× 1
URL:	8
✓ Add to Project	
	<u>OK</u> <u>Cancel</u>

13. Click the **Browse** icon.

The Import Schema dialog is displayed.

े Import S	chema	×
Location:	🗀 tools 👻	🛍 🖄 🎬 🗄
GetDet	ail_request.xsd	
📄 GetDet	ail_response.xsd	
File <u>N</u> ame:	GetDetail_response.xsd	
File <u>T</u> ype:	Schema Files (*.xsd)	•
	(Open Cancel

14. Navigate to the default exported schema location:

<soadp1>\adapters</soadp1>	s\application`	tools
----------------------------	----------------	-------

15. Select the response XML schema file (.xsd) for the corresponding business object and click **Open**.

You are returned to the Import Schema File dialog.

👆 Import Schema File 🛛 🔀
URL: ::/C:/soadp1/adapters/application/tools/GetDetail_response.xsd)
Add to Project

- **16.** Uncheck the **Add to Project** option.
- **17.** Click **OK**.

The Type Chooser dialog is displayed.

े Type Chooser	×
	28 10
Type Explorer Imported Schemas Impor	
Type: {urn:sap-com:document:sap:business.response}Compa	anyCode.GetDetail.Response
Show Detailed Node Information	
Help	<u>O</u> K <u>C</u> ancel

- Expand Imported Schemas, the response XML schema (for example, GetDetail_ response.xsd), and then the method (for example, CompanyCode.GetDetail.Response).
- 19. Click OK.

You are returned to the BPEL Project Creation Wizard - I/O Elements page.

🐡 BPEL Project Creation W	izard - Input/Output Ele	ments	х
DEL Project treation w	The default input and out Wizard are isted bebw, y the default values. Input Schema Element: Output Schema Element:	ments put elements put can browse elements from other schemas to can browse elements m:document:sap:business}CompanyCode.GetDetail iness.response}CompanyCode.GetDetail.Response	
		< <u>Back</u> Next > Finish Cancel	

20. Click Finish.

Applications	ap_ccgd_outbound_upgrade	.bpel 🛛 🕌 CC_GetDetail_test.bpel	🛃 Iadarv2_CC_GD_jca.bpel 📃 🔍
k 🌆 📖 🐏 📴 🛍 🗀 3 🕀 ki	🔊 🗸 🍪 🚳 🔊	🖏 📕 🗐 📇 🚳 🛛 🕄	Dril Down Stack: 📃 📥 📣
Applications		2	
		12	
🗄 🗠 🛅 CC_GetDetail_test		receive]pout	
🚊 📲 🛅 Isdsrv2_CC_GD_jca			
🗐 - 🛅 Integration Content		10 17	
🗄 🖳 Schemas		č 🔸	
🗄 📲 Test Suites		ं लिय	
······ bpel.xml			
Isdarv2_CC_GD_jca.bpel		a Accian 1	
Isdsrv2_CC_GD_jca.wsdl		weetign_1	
MuSAB Upgrade Tecting Eab?		+	
		572 P	200
	diept 4	107 P	
			GetDetail
		Invoke_1	
		+	
		RC	
8999			
Isdsrv2_CC_GD_jca.bpel - Str		Aurice 2	
		Assign_2	

- **21.** Continue with the creation of a standard BPEL outbound process using Partnerlink, Invoke, and Assign components.
- **22.** Compile the outbound BPEL process project.

Messages	- Log					
copying			oo oqopao arreeoo	- 3		
copying	<pre>bpel/isdsrv2_0</pre>	C_GetDetail_inv	voke.wsdl to outp	ut directory	7	
convert:	ing, through na	tive2ascii, bu:	ild.properties to	output dire	ectory	
[3:43:45]	PM] Successful	compilation: 0	errors, O warnir	ıgs.		
Deploying	to http://loca	lhost:80 domain	n: default. Pleas	e wait		
[3:44:06]	[3:44:06 PM] Please check Ant log to determine whether the project deployed successfully.					
Messages						
Messages	BPEL Messages	Apache Ant				

- **23.** Verify that there are no error or warning messages during compilation.
- 24. Deploy the outbound BPEL process project.
- **25.** After the deployment is successful, go to the BPEL console and execute the deployed process.

A successful response is received.

1.1.4 Migrating the 10.1.3.x BPEL JCA Outbound Process to a 11g Workflow Process

This section describes how to migrate the 10.1.3.x BPEL JCA outbound process to a 11g workflow process.

Note: For demonstration purposes, Oracle Application Adapter for SAP R/3 is used as an example.

1.1.4.1 Prerequisites

Before continuing, ensure that you copy and paste the 10.1.3.x outbound BPEL Process Project to the 11g system location.

1.1.4.2 Overview of Migration to 11g BPEL JCA Outbound Workflow Process

- **1.** Open an application.
- **2.** Migrate the 10.1.3.x BPEL JCA outbound process to 11*g*.
- **3.** Deploy the BPEL process project.
- 4. Invoke the input XML using the Oracle Enterprise Manager console.

1.1.4.3 Migrating an Outbound BPEL Process Project

To migrate an outbound BPEL process project:

1. Start Oracle JDeveloper 11*g*.

譮 Oracle JDeveloper 11g Release 1 - FEB10.jws	: CC_GetDetail_test.jpr
<u>File Edit Yiew Application Refactor Se</u>	arch <u>N</u> avigate <u>B</u> uild
🔮 🔁 🚼 I 🕫 🥐 I 🗶 🛅 🛍 I 🔇 🔹	🔾 - 팩 - 🍓 🕍 🚽
PAP Open (Ctrl-O) Applicat	voke.wsdl
🖻 FEB10 🔹 🖻 🔹	🖌 🥖 🏷 🗄 🖶 🗶
🗢 Projects 🔄 🐼 🍸 🕶 🗉	
	Exposed Services
∎ ⊡ test1	
🗊 🛅 demo_feb10	
CC_GetDetail_test	

2. Select an available application (for example, FEB10) and click **Open** from the tool bar.

🖕 Open				×
Location: Work	C:\Isdsrv2_CC_GD_jca bpel output build.properties build.xml GetDetail_response.xsd Isdsrv2_CC_GD_jca.jpr	•		
	File name: Isdsrv2_CC_GD_jca.jpr			
	File type: All files (*.*)			-
Help		Open	Ca	incel

The Open dialog is displayed.

- **3.** Open the 10.1.3.x project (for example, Isdsrv2_CC_GD_jca) and select the .jpr extension file (for example, Isdsrv2_CC_GD_jca.jpr).
- 4. Click Open.

The Migration Wizard is displayed.

💩 Migration Wizard - Sl	tep 1 of 4
Welcome	
🥥 Welcome	Welcome to the Migration Wizard
Confirmation Component IDs Finish	This wizard will guide you through the process of migrating files that were created in an older release to the current release.
Help	

5. Click Next.

The Confirmation page is displayed.

💩 Migration Wizard - St	ep 2 of 4 X				
Confirmation					
y <u>Welcome</u>	You are about to migrate the project C:\Isdsrv2_CC_GD_jca\Isdsrv2_CC_GD_jca.jpr to .Developer version 11.1.1.2.0 file format.				
Confirmation	Once the project is migrated you will not be able to reopen it using an older release. You may want to back up the project contents before proceeding.				
O Finish	Do you want to migrate these files? • Yes • No • No				
Help	< Back Next > Firish Cancel				

6. Verify that Yes is selected (default) and click Next.

The Component IDs page is displayed.



7. Accept the default values and click Next.

The Finish page is displayed.

📥 Migration Wizard - Step	04 of 4
Finish	
Velcome Confirmation Component IDs	Migration setup is complete. Click Finish to migrate project C:\Isdsrv2_CC_6D_jca\Isdsrv2_CC_6D_jca.jpr. -ADF Faces Component ID Migration -Add component IDs and migrate instances of customization(d and testId.
Help	< Back Next > Enish Cancel

8. Click Finish.

The following message is displayed.



9. Click OK.

The 10.1.3.x project is now available in your 11g environment.



- **10.** Expand the migrated project in the left page (for example, Isdsrv2_CC_GD_jca) and double-click the **composite.xml** file to verify that the project opens without any errors.
- 11. Click Save.
- **12.** Compile and then deploy the migrated BPEL process project.

Messages - Log

		<u></u>
		2
ignoring	C:\Isdsrv2_CC_GD_jca\build.properties; not on source path	
ignoring	C:\Isdsrv2_CC_GD_jca\output\bpel\isdsrv2_CC_GetDetail_invoke.wsdl: n	
ignoring	C:\Isdsrv2_CC_GD_jca\output\bpel\Isdsrv2_CC_GD_jca.wsdl; not on sour	
ignoring	C:\Isdsrv2_CC_GD_jca\output\build.properties; not on source path	
ignoring	C:\IsdsrvZ_CC_GD_jca\IsdsrvZ_CC_GD_jca.wsdl; not on source path	
14-15-43 DW	MI Successful compilation: 0 errors 0 vernings	-
(4.10.40 H	, successful complianton, o errors, o warnings.	4
		6

- **13.** Verify that there are no error or warning messages during compilation and deployment.
- **14.** After the deployment is successful, go to the Oracle Enterprise Manager console and execute the deployed process either in Tree View or XML View and get the successful response.

Input XML in XML View

Û	Isdsrv2_CC_GD_jca [1.0] 🗓	Logged in as weblogic Host amtex-115.AP
베	SDA Composite 🗸	Page Refreshed Feb 11, 2010 5:24:50 PM GMT+
	Loops per Thread 10	
	1000	
	Input Arguments	
at L	XML View 💌	
]	<soap:envelope xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/"> <soap:body xmlns:bapi="um:sap-com:document:sap:business"> <bapi:companycode.gatdetail companycode(d="1000" =""> </bapi:companycode.gatdetail></soap:body> </soap:envelope>	
	Request Response	
		Test web bervice

Output XML that is received



1.1.5 Post-Upgrade Requirement

The following changes must be made for every outbound ESB and BPEL process after the corresponding project is migrated to 11g.

- 1. Expand the migrated project and double-click the **composite.xml** file.
- 2. Click source.
- Navigate to the reference section, check for the .jca file that has the naming 3. convention as xxxx_iway.jca and replace with xxxx_iway_3P.jca (adding _ 3P as a suffix).

Original:

```
<reference ui:wsdlLocation="isdsrv15_eaicreate_node_invoke.wsdl" name="create_
node">
<interface.wsdl
interface="http://xmlns.oracle.com/pcbpel/iWay/wsdl/Siebel/isdsrv15/create_
node#wsdl.interface(create_nodePortType)"
xmlns:ns="http://xmlns.oracle.com/sca/1.0"/>
<binding.jca config="create_node_iway.jca"/>
</reference>
```

Modified:

```
<reference ui:wsdlLocation="isdsrv15_eaicreate_node_invoke.wsdl" name="create_
node">
<interface.wsdl
interface="http://xmlns.oracle.com/pcbpel/iWay/wsdl/Siebel/isdsrv15/create_
node#wsdl.interface(create_nodePortType)"
xmlns:ns="http://xmlns.oracle.com/sca/1.0"/>
<binding.jca config="create_node_iway_3P.jca"/>
</reference>
```

posite.xm	composite.xml	e composite.xml	of composite.xml	e composite.xml	e composite.xml				
Find	₽ 1	\mathbf{N}							
< 2xml Comp	l version="1.0" encodi posite name="isdsrv15_ (import location="isds (import location="isds	ng="UTF-8"?> _eaicreatesearc rvl5_eaicreate rvl5_eaicreate	h_jca_bpel" revi: search_jca_bpel.u _node_invoke.wsd	sion="1.0" mode= wsdl" namespace= 1" namespace="ht	"active" state="o "http://xmlns.ora tp://xmlns.oracle				
	<pre></pre>								
	<pre>(component name="isdsr</pre>	vl5_eaicreates el src="isdsrv	earch_jca_bpel"> 15_eaicreatesear	ch_jca_bpel.bpel	/>				
	<pre>(reference ui:wsdlLoca</pre>	ntion="isdsrv15 nterface="http: .g="create_node	_eaicreate_node_; //xmlns.oracle.c _iway.jca"/>	invoke.wsdl″ nam om/pcbpel/iWay/w	e="create_node"> sdl/Siebel/isdsrv				
	(wire>								

4. Open the project folder and rename the same .jca properties file by adding _3P as a suffix in the .jca file (for example, create_node_iway_3P.jca).

1.2 Upgrading a 10.1.3.x Inbound Process to 11g

This section describes how to upgrade a 10.1.3.x inbound process to 11g.

Note: For demonstration purposes, Oracle Application Adapter for SAP R/3 is used as an example.

As a requirement, you must create the same adapter targets and channels in the 11*g* environment using Application Explorer that you had created in the 10.1.3.x environment. Any change in the adapter target or channel can cause issues for the projects to work in 11*g* environment.

1.2.1 Overview of 10.1.3.x BPEL JCA Inbound Workflow Process

- 1. Using Application Explorer, generate a 10.1.3.x JCA inbound WSDL document for Oracle Application Adapter for SAP R/3.
- **2.** Create a 10.1.3.x BPEL JCA inbound process using Oracle JDeveloper 10.1.3.x and deploy it successfully.
- **3.** Trigger the event messages from the ERP system (for example, SAP GUI) and verify that successful instances are received for the deployed process in the BPEL console.
- **4.** Migrate the 10.1.3.x BPEL JCA inbound process to 11*g* using Oracle JDeveloper 11*g*.
- **5.** Remove the following line from the JCA properties file in the migrated project and deploy it successfully:

```
<record-converter
className="com.iwaysoftware.afjca15.oracle.InboundXMLRecordConverterImpl"/>
```

6. Trigger the event messages from the ERP system (for example, SAP GUI) and ensure that successful instances are received in the Oracle Enterprise Manager console.

1.2.2 Creating an Inbound BPEL Process Project

To create an inbound BPEL process project:

1. Start Oracle JDeveloper 10.1.3.4.



2. Click the **Application Navigator** tab and select **New Project** from the context menu.

The New Gallery dialog is displayed.

3. Select the **BPEL Process Project** and then click **OK**.

The BPEL Project Creation Wizard - Project Settings page is displayed.

Name:	isdsrv2_matmas01_inbound_bpel
Namespace:	http://xmlns.oracle.com/isdsrv2_matmas01_inbound_bpel
<u>Т</u> уре:	Project Name: isdsrv2_matmas01_inbound_bpel Project Directory: sting/isdsrv2_matmas01_inbound_bpel/ Template Asynchronous BPEL Process Synchronous BPEL Process Empty BPEL Process

- 4. Enter a name for the new BPEL process project in the Name field.
- 5. Select **Empty BPEL Process** from the Template Type list and click **Finish**.



- **6.** Continue with the creation of a standard BPEL inbound process using Partnerlink and Receive components.
- 7. Compile the inbound BPEL process project.

Messages -	Log							
(BPEL Comp	(BPEL Compiler) Initializing compiler for first time use							
BPEL suite	ase generated	in: D:\jdevstud	iol0134\jdev\mywork	k\Upgrade_testing\mysap_matmas_inbound_wsd	ı,			
copying	bpel/MATMASO1_	receive.wsdl to	output directory					
[4:37:36 P	M] Successful	compilation: 0	errors, O warnings.					
Deploying	to http://loca	lhost:80 domain	: default. Please w	wait				
[4:39:33 P	M] Please chec	k Ant log to de	termine whether the	e project deployed successfully.				
4		11111			•			
Messages	BPEL Messages	Apache Ant 🗙		•	Þ			
project deploye	roject deployed successfully. BPEL e							

- **8.** Verify that there are no error or warning messages during compilation.
- 9. Deploy the inbound BPEL process project.
- **10.** After the deployment is successful, trigger the event messages from the ERP system (for example, SAP GUI).

The successful instances for the deployed process are received in the BPEL console.

1.2.3 Migrating an Inbound BPEL Process Project

Before continuing, ensure that you copy and paste the 10.1.3.x inbound BPEL Process Project to the 11*g* system location.

To migrate an inbound BPEL process project:

1. Start Oracle JDeveloper 11*g*.

💩 Oracle JDeveloper 11g Release 1 - Upgrade_7	esting_Feb19.jws : psft_dept_int
File Edit View Application Refactor Sea	rch <u>N</u> avigate <u>B</u> uild <u>R</u> un V
🔮 📴 🗊 🕫 🐃 🕷 🛯 😋 • 🔇) - 🕮 - 📥 🕍 🚢 💌 -
A Open (Ctrl-O) ator	composite.xml
🔁 Upgrade_Testing_Feb19 🔹 🕞 🗸	🖌 🕖 🖓 🖓 🖓 🚺
Projects Q Q V · · ariba01_acct_query_10134_jca_esb · · ariba01_act_query_10134_jca_bpel · · ariba01_eai_creatsearch_10134_jca_bpel	Exposed Services
ariba01_SA_10134_inbound_bpel ariba01_SA_10134_inbound_esb isdsrv14_customer_10134_ica_bpel isdsrv14_customer_10134_ica_bpel	
isdsrv14_costonier_10134_outbound_ica_es isdsrv14_dept_10134_outbound_ica_bpel isdsrv14_dept_query_10134_jca_esb isdsrv14_location_10134_jca_bpel isdsrv14_location_guery_10134_outbound_i	DefaultSystem Operations: DEPT_SYNC_V
Hand isdsrv14 nsft dent query 10134 hnel	

2. Select an available application and click **Open** from the tool bar.

The Open dialog is displayed.

譮 Open											×
Location:	C:\upg	grade testin	g\mysap_ma	atmas_in	bound_wsd	L_browser	_bpel.b 🔻	0	G 😭	E	
Work	bpel	t properties ml									
Project	nysap 📄)_matmas_ir	ibound_wsd	dl_brows	er_bpel.jpr						
Application											
Home											
	Eile name:	mysap_mat	mas_inboun	nd_wsdl_l	browser_bp	el.jpr					
	File type:	All files (*.*)								•
Help							Open			ancel	

- **3.** Open the 10.1.3.x project and select the **.jpr** extension file (for example, mysap_matmas_inbound_wsdl_browser_bpel.jpr).
- 4. Click Open.

The Migration Wizard is displayed.

ð٢	ligration Wizard - Ste	p 1 of 4					×
We	lcome						
Ŷ	Welcome	Welcome to	the Migration	Wizard			
	Confirmation Component IDs Finish	This wizard will gui release to the cun	de you through the p rent release.	process of migrati	ng files that we	ere created i	n an older
		Skip This Page	Next Time				
	Help			< <u>B</u> ack	<u>N</u> ext >	Einish	Cancel

5. Click Next.

The Confirmation page is displayed.

🍲 Migration Wizard - Ste	ep 2 of 4
Confirmation	
Welcome Confirmation Component IDs Finish	You are about to migrate the project C:\mysap_matmas_inbound_wsdl_browser_bpel\mysap_matmas_inbound_wsdl_browser_bpel.j pr to JDeveloper version 11.1.1.2.0 file format. Once the project is migrated you will not be able to reopen it using an older release. You may want to back up the project contents before proceeding. Do you want to migrate these files? • Yes • Ng
Help	< gack Next > Einish Cancel

6. Verify that Yes is selected (default) and click Next.

The Component IDs page is displayed.



7. Accept the default values and click Next.

The Finish page is displayed.

Migration Wizard - Sl	tep 4 of 4
Finish	
Welcome Confirmation Component IDs	Migration setup is complete. Click Finish to migrate project C:\Isdsrv2_CC_GD_jca\Isdsrv2_CC_GD_jca.jpr. B-ADF Faces Component ID Migration
Sector Finish	-Add component IDs and migrate instances of customizationId and testId.
Help	< <u>Back</u> Next > Enish Cancel

8. Click Finish.

The following message is displayed.



9. Click OK.

The 10.1.3.x project is now available in your 11g environment.

Y Projects 🔐 🖓 Y * 🚟 *			1
⊕ ☐ isdsrv14_psft_dept_sync_inbound_esb	Exposed Services	Components	External Referer
mysap_matmas_inbound_wsd_browser_bpel			
🖻 – 🦳 SOA Content			
😟 🫅 output			
Description of the second s			
• intersection intersection in the section is a section in the section in the section is a section in the section in the section is a section in the section in the section is a section in the section in the section is a section in the section is a section in the section in the section is a section in the section in the section in the section is a section in the section in the section in the section is a section in the section in			
🕀 💼 thumbnail			
🗷 🛄 xsd			
læ <mark>i i i i i i i i i i i i i i i i i i</mark>		8	
Business Rules		mysap mat	
build.properties	MATMAS01		
build.xml	Operations:		
on composite.xml	MATMAS01		
graphics.xml			
MATMASUI_Way.jca			
mysap_macmas_inbound_wsdi_browset			
ungradel on byt			
in and an			

- **10.** Expand the migrated project in the left page and double-click the **composite.xml** file to verify that the project opens without any errors.
- **11.** Double-click the JCA properties file that is associated with this project (for example, MATMAS01_iway.jca).
- **12.** Remove the XMLRecordConverter line, as shown in the following image.

<adapter-config adapter="iWay ERP Adapter" com.iwaysoftware.afjcal5.iwaforacleresourceadapte<br="" name="NATMASO1" wsdllocation="NATMASO
<resource-adapter className="><record-converter classname="com.iwaysoftware.afjcal5.oracle.InboundXMLRecord()</th><th>l_receive.wsdl?w
r"></record-converter> onverterImpl"/></adapter-config>	
<pre><connection-factory adapterf<br="" location="eis/OracleJCAAdapter/DefaultConnection"><endpoint-activation operation="MATMASOI" porttype="MATMASOIPortType"> <use-record-converter addonnamespace="urn:sap-com:document:sap:idoc"></use-record-converter> <activation-spec adaptername"="" classname="com.iwaysoftware.afjcal5.IWAFOracleActivationSpe
<property name=" value="MySAP"></activation-spec> <property name="ChannelName" value="mysap_ch"></property> </endpoint-activation></connection-factory></pre>	ef=""/> c">

13. Click Save.

14. Compile and then deploy the migrated BPEL process project.

Message	s - Log						_	
Compilation of project 'mysap_matmas_inbound_wsdl_browser_bpel.jpr' finished. Ck^ ignoring C:\mysap_matmas_inbound_wsdl_browser_bpel\build.properties; not on sc ignoring C:\mysap_matmas_inbound_wsdl_browser_bpel\output\build.properties; nc								
[5:07:05 PM] Successful compilation: 0 errors, 0 warnings.								
<	_)			-		>	
Messages	BPEL	Extensions	Deployment	SOA 😹		4	▶▼	

- **15.** Verify that there are no error or warning messages during compilation and deployment.
- **16.** After the deployment is successful, trigger the event messages from the ERP system (for example, SAP GUI).

The successful instances for the deployed process are received in the Oracle Enterprise Manager console.

1.2.4 Post-Upgrade Requirement

The following changes must be made for every inbound ESB and BPEL process after the corresponding project is migrated to 11*g*.

- 1. Expand the migrated project and double-click the **composite.xml** file.
- 2. Click source.
- **3.** Navigate to the service section, check for the .jca file that has the naming convention as xxxx_iway.jca and replace with xxxx_iway_3P.jca (adding_3P as a suffix).

Original:

```
<service ui:wsdlLocation="isdsrv22_sampleAcct_receive.wsdl" name="samp_node">
<interface.wsdl
interface="http://xmlns.oracle.com/pcbpel/iWay/wsdl/Siebel/isdsrv22/samp_
node#wsdl.interface(samp_nodePortType)"
xmlns:ns="http://xmlns.oracle.com/sca/1.0"/>
<binding.jca config="samp_node_iway.jca"/>
</service>
```

Modified:

```
<service ui:wsdlLocation="isdsrv22_sampleAcct_receive.wsdl" name="samp_node">
<interface.wsdl
interface="http://xmlns.oracle.com/pcbpel/iWay/wsdl/Siebel/isdsrv22/samp_
node#wsdl.interface(samp_nodePortType)"
xmlns:ns="http://xmlns.oracle.com/sca/1.0"/>
<binding.jca config="samp_node_iway_3P.jca"/>
</service>
```

nposit	e.xml • composite.xml	Composite.xml	Composite.xml	write_file.jca	MATMAS01_iway.jca	Composite.xml	a composi
Find	4	10					
< 23	ml version="1.0" enc	oding="UTF-8"?>					
□ < c	mposite name="isdsrv	22_SampleAccount	inbound_esb" app	plicationName="U	<pre>Jpgrade_Testing_Feb19</pre>	" mode="active"	revision="
	<pre><import 1;<="" location="1;
<import location=" pre=""></import></pre>	sdsrv22_sampleac(count_esb_receive	e_new.wsdl" name	space="http://xmins.	oracle.com/pcbpe	:1/1Way/wsd
	<pre><import http:="" location="i;</pre></th><th>sdsrv22 sampleace</th><th>sur namespace=</th><th>nccp://xmins.or</th><th>snace=" th="" xmlns.u<=""><th>oracle.com/nchne</th><th>l/iMay/wad</th></import></pre>	oracle.com/nchne	l/iMay/wad				
	<service th="" ui:wsdlloc<=""><th>ation="isdsrv22_s</th><th>sampleaccount_esh</th><th></th><th>dl" name="DefaultSys</th><th>tem.isdsrv22_ink</th><th>ound_esb"></th></service>	ation="isdsrv22_s	sampleaccount_esh		dl" name="DefaultSys	tem.isdsrv22_ink	ound_esb">
	<interface.wsdl< th=""><th>interface="http:</th><th>//xmlns.oracle.o</th><th>om/pcbpel/iWay/</th><th>/wsdl/Siebel/isdsrv22</th><th>/samp_node#wsdl.</th><th>interface(</th></interface.wsdl<>	interface="http:	//xmlns.oracle.o	om/pcbpel/iWay/	/wsdl/Siebel/isdsrv22	/samp_node#wsdl.	interface(
	<pre><binding.jca com<="" pre=""></binding.jca></pre>	nfig="samp_node_:	iway_3P.jca″/>				
		ti m-lli adami22				ter indern22 int	and ask D

4. Open the project folder and rename the same .jca properties file by adding _3P as a suffix in the .jca file (for example, samp_node_iway_3P.jca).

1.3 Overview of Oracle Upgrade Patches

This section provides an overview of Oracle upgrade patches.

BUG 9481515 Outbound

This patch must be applied when an ESB outbound process is created by selecting WSDL from Service Explorer in the Custom Adapter Service.

Open the project folder and edit the **DefaultSystem_CustomAdapter ServiceName.esbsvc** file (for example, DefaultSystem_isdsrv2_cc_gd.esbsvc) by providing the system IP address and port number (for example, 192.168.128.122:80) of the 10.1.3.4 WSDL generated system in the <wsdlURL> section that is located within <serviceDefinition>:

```
<serviceDefinition>
<wsdlURL>http://192.168.128.122:80/orainfra/wsil/adapters/applications/isdsrv2_CC_
GetDetail_invoke.wsdl?wsdl</wsdlURL>
```

```
</endpointDefinition>
</serviceDefinition>
```

BUG 9481515 Inbound

This patch must be applied when an ESB inbound process is created by selecting WSDL from Service Explorer in the Custom Adapter Service.

Open the project folder and edit the files DefaultSystem_ CustomAdapterServiceName.esbsvc (for example, DefaultSystem_matmas01_ esb.esbsvc) and DefaultSystem_CustomAdapterServiceName_RS.esbsvc (for example, DefaultSystem_matmas01_esb_RS.esbsvc) by providing the system IP address and port number (for example, 192.168.128.122:80) of the 10.1.3.4 WSDL generated system in the <wsdlurtL> section:

1. DefaultSystem_matmas01_esb.esbsvc

```
<interface>
<wsdlURL>http://192.168.128.122:80/orainfra/wsil/adapters/applications/
MATMAS01_receive.wsdl?wsdl</wsdlURL>-----
</interface>
```

2. DefaultSystem_matmas01_esb_RS.esbsvc

```
<serviceDefinition><wsdlURL>http://192.168.128.122:80/orainfra/wsil/adapters/ap
plications/ MATMAS01_receive.wsdl?wsdl</wsdlURL>------
</endpointDefinition>
</serviceDefinition>
```

BUG 9411107

This patch must be applied when an ESB inbound process is created only for the Oracle Application Adapter for PeopleSoft when selecting the WSDL from the local file system and from the Service Explorer.

Apply this patch on the11g system and migrate the ESB inbound process created for the Oracle Application Adapter for PeopleSoft.

Oracle Application Adapter for SAP R/3 Upgrade Guidelines

This chapter lists and describes upgrade guidelines that are specific to the Oracle Application Adapter for SAP R/3.

This chapter discusses the following topics:

- Upgrading a 10.1.3.x ESB J2CA Outbound Process to 11g
- Upgrading a 10.1.3.x ESB J2CA Inbound Process to 11g
- Upgrading a 10.1.3.x BPEL J2CA Outbound Process to 11g
- Upgrading a 10.1.3.x BPEL J2CA Inbound Process to 11g

2.1 Upgrading a 10.1.3.x ESB J2CA Outbound Process to 11g

Selecting a WSDL From the Local File System

- 1. On the 10.1.3.4 system, create a new target for Oracle Application Adapter for SAP R/3 using Application Explorer and connect to the target.
- **2.** Browse to a specific business object and generate an outbound WSDL for this object.
- 3. Restart the server.
- 4. Start Oracle JDeveloper 10.1.3.4 and create a JCA outbound ESB Project.
- **5.** In the Custom Adapter service, select the outbound WSDL from the local file system.
- **6.** Deploy the ESB project successfully and ensure the registration of the ESB project is successful.
- **7.** On the 11*g* system, create a target using the same name that was provided on the 10.1.3.4 system.
- **8.** Copy the deployed ESB project into the 11*g* system.
- **9.** Start Oracle JDeveloper 11g and migrate the 10.1.3.4 ESB project.
- **10.** Once the project is migrated, a successful message is received in Oracle JDeveloper.
- **11.** Expand the migrated project and double-click the composite.xml file to ensure that the project opens without any errors.
- 12. Save and then deploy the migrated ESB project.

- **13.** Ensure that there are no error or warning messages during the deployment process.
- **14.** Once the deployment is successful, navigate to the input folder and paste the input XML file.

The successful response XML is received in the specified output folder.

Selecting a WSDL Using Service Explorer

- 1. On the 10.1.3.4 system, create a new target for Oracle Application Adapter for SAP R/3 using Application Explorer and connect to the target.
- **2.** Browse to a specific business object and generate an outbound WSDL for this object.
- **3.** Restart the server.
- 4. Start Oracle JDeveloper 10.1.3.4 and create a JCA outbound ESB Project.
- 5. In the Custom Adapter service, select the outbound WSDL using Service Explorer.
- **6.** Deploy the ESB project successfully and ensure the registration of the ESB project is successful.
- **7.** On the 11*g* system, create a target using the same name that was provided on the 10.1.3.4 system.
- **8.** Copy the deployed ESB project into the 11*g* system.

Note: There is a patch BUG 9481515 - EXCEPTION THROWN WHILE MIGRATING 10.1.3.X I-WAY PROJECT FOR ALL ADPATERS New issue on Migration of ESB processes. For more information, see "BUG 9481515 Outbound" on page 1-24 on what has to be done if you apply the patch. If you do not apply the patch, then follow the next step or else skip it.

9. Open the project folder and edit the DefaultSystem CustomAdapter ServiceName.esbsvc file (for example, DefaultSystem_isdsrv2_cc_gd.esbsvc) by modifying the WSDL URL in the serviceDefinition section. For example:

Original

```
</endpointDefinition>
</serviceDefinition>
```

10. Start Oracle JDeveloper 11g and migrate the 10.1.3.4 ESB project.

- **11.** Once the project is migrated, a successful message is received in Oracle JDeveloper.
- **12.** Expand the migrated project and double-click the composite.xml file to ensure that the project opens without any errors.
- **13.** Save and then deploy the migrated ESB project.
- **14.** Ensure that there are no error or warning messages during the deployment process.
- **15.** Once the deployment is successful, navigate to the input folder and paste the input XML file.

The successful response XML is received in the specified output folder.

2.2 Upgrading a 10.1.3.x ESB J2CA Inbound Process to 11g

Selecting a WSDL From the Local File System

- 1. On the 10.1.3.4 system, create a new target for Oracle Application Adapter for SAP R/3 using Application Explorer and connect to the target.
- **2.** Create a new channel for Oracle Application Adapter for SAP R/3.
- **3.** Browse to a specific business object and generate an inbound WSDL for this object.
- **4.** Restart the server.
- 5. Start Oracle JDeveloper 10.1.3.4 and create a JCA inbound ESB Project.
- **6.** In the Custom Adapter service, select the inbound WSDL from the local file system.
- **7.** Deploy the ESB project successfully and ensure the registration of the ESB project is successful.
- **8.** On the 11*g* system, create a target and channel using the same name that was provided on the 10.1.3.4 system.
- **9.** Copy the deployed ESB project into the 11*g* system.
- **10.** Start Oracle JDeveloper 11g and migrate the 10.1.3.4 ESB project.
- **11.** Once the project is migrated, a successful message is received in Oracle JDeveloper.
- **12.** Expand the migrated project and double-click the composite.xml file to ensure that the project opens without any errors.
- **13.** Double-click the J2CA properties file under the migrated project in Oracle JDeveloper and remove the following line:

```
<record-converter
className="com.iwaysoftware.afjca15.oracle.InboundXMLRecordConverterImpl"/>
```

For example:

```
<adapter-config name="MATMAS01" adapter="iWay ERP Adapter"
wsdlLocation="MATMAS01_receive.wsdl?wsdl"
xmlns="http://platform.integration.oracle/blocks/adapter/fw/metadata">
<resource-adapter
className="com.iwaysoftware.afjca15.IWAFOracleResourceAdapter"/><record-convert
er className="com.iwaysoftware.afjca15.oracle.InboundXMLRecordConverterImpl"/>
```

- 14. Save and then deploy the migrated ESB project.
- **15.** Ensure that there are no error or warning messages during the deployment process.
- **16.** Trigger the event messages from the ERP system (for example, SAP GUI) and verify that successful response XML files are received in the specified output folder.

Selecting a WSDL Using Service Explorer

- On the 10.1.3.4 system, create a new target for Oracle Application Adapter for SAP R/3 using Application Explorer and connect to the target.
- **2.** Create a new channel for Oracle Application Adapter for SAP R/3.
- 3. Browse to a specific business object and generate an inbound WSDL for this object.
- **4.** Restart the server.
- 5. Start Oracle JDeveloper 10.1.3.4 and create a JCA inbound ESB Project.
- 6. In the Custom Adapter service, select the inbound WSDL using Service Explorer.
- **7.** Deploy the ESB project successfully and ensure the registration of the ESB project is successful.
- **8.** On the 11*g* system, create a target and channel using the same name that was provided on the 10.1.3.4 system.
- **9.** Copy the deployed ESB project into the 11*g* system.

Note: There is a patch BUG 9481515 - EXCEPTION THROWN WHILE MIGRATING 10.1.3.X I-WAY PROJECT FOR ALL ADPATERS New issue on Migration of ESB processes. For more information, see "BUG 9481515 Inbound" on page 1-24 on what has to be done if you apply the patch. If you do not apply the patch, then follow the next step or else skip it.

10. Open the project folder and edit the DefaultSystem_

CustomAdapterServiceName.esbsvc file (for example, DefaultSystem_matmas01_ esb.esbsvc) and **DefaultSystem_CustomAdapterServiceName_RS.esbsvc** file (for example, DefaultSystem_matmas01_esb_RS.esbsvc) by modifying the WSDL URL in the serviceDefinition section. For example:

Original (DefaultSystem_matmas01_esb.esbsvc)

```
<interface> <wsdlURL>http://127.0.0.1:80/orainfra/wsil/adapters/applications/
MATMAS01_receive.wsdl?wsdl</wsdlURL>-----
</interface>
```

Modified (DefaultSystem_matmas01_esb.esbsvc)

<interface><wsdlurL>MATMAS01_receive.wsdl</wsdlurL>------</interface>

Original (DefaultSystem_matmas01_esb_RS.esbsvc)

```
<serviceDefinition><wsdlURL>http://127.0.0.1:80/orainfra/wsil/adapters/applicat
ions/ MATMAS01_receive.wsdl?wsdl</wsdlURL>-----
</endpointDefinition>
</serviceDefinition>
```

Modified (DefaultSystem_matmas01_esb_RS.esbsvc)

```
<serviceDefinition><wsdlURL>MATMAS01_
receive.wsdl</wsdlURL>-----
</endpointDefinition>
</serviceDefinition>
```

- **11.** Start Oracle JDeveloper 11g and migrate the 10.1.3.4 ESB project.
- **12.** Once the project is migrated, a successful message is received in Oracle JDeveloper.
- **13.** Expand the migrated project and double-click the composite.xml file to ensure that the project opens without any errors.
- **14.** Double-click the J2CA properties file under the migrated project in Oracle JDeveloper and remove the following line:

```
<record-converter
className="com.iwaysoftware.afjca15.oracle.InboundXMLRecordConverterImpl"/>
```

For example:

```
<adapter-config name="MATMAS01" adapter="iWay ERP Adapter"
wsdlLocation="MATMAS01_receive.wsdl?wsdl"
xmlns="http://platform.integration.oracle/blocks/adapter/fw/metadata">
<resource-adapter
className="com.iwaysoftware.afjca15.IWAFOracleResourceAdapter"/><record-convert
er className="com.iwaysoftware.afjca15.oracle.InboundXMLRecordConverterImpl"/>
```

- 15. Save and then deploy the migrated ESB project.
- **16.** Ensure that there are no error or warning messages during the deployment process.
- **17.** Trigger the event messages from the ERP system (for example, SAP GUI) and verify that successful response XML files are received in the specified output folder.

2.3 Upgrading a 10.1.3.x BPEL J2CA Outbound Process to 11g

Selecting a WSDL From the Local File System

- 1. On the 10.1.3.4 system, create a new target for Oracle Application Adapter for SAP R/3 using Application Explorer and connect to the target.
- **2.** Browse to a specific business object and export the schemas into the default location.
- **3.** Generate the outbound WSDL for the specific business object.
- **4.** Restart the server.
- **5.** Start Oracle JDeveloper 10.1.3.4 and create a JCA outbound BPEL Project by uploading the request and response schema generated from Application Explorer in step 2.
- **6.** In the Partner Link, select the outbound WSDL from the local file system.
- Deploy the BPEL project successfully and ensure that there are no error or warning messages during the deployment process.
- **8.** On the 11*g* system, create a target using the same name that was provided on the 10.1.3.4 system.

- **9.** Copy the deployed BPEL project into the 11g system.
- **10.** Start Oracle JDeveloper 11g and migrate the 10.1.3.4 BPEL project.
- **11.** Once the project is migrated, a successful message is received in Oracle JDeveloper.
- **12.** Expand the migrated project and double-click the composite.xml file to ensure that the project opens without any errors.
- **13.** Save and then deploy the migrated BPEL project.
- **14.** Ensure that there are no error or warning messages during the deployment process.
- **15.** Open the Oracle Enterprise Manager console and invoke the input XML in XML / Tree view to receive a successful response XML.

Selecting a WSDL Using Service Explorer

- 1. On the 10.1.3.4 system, create a new target for Oracle Application Adapter for SAP R/3 using Application Explorer and connect to the target.
- **2.** Browse to a specific business object and export the schemas into the default location.
- 3. Generate the outbound WSDL for the specific business object.
- 4. Restart the server.
- **5.** Start Oracle JDeveloper 10.1.3.4 and create a JCA outbound BPEL Project by uploading the request and response schema generated from Application Explorer in step 2.
- 6. In the Partner Link, select the outbound WSDL from Service Explorer.
- **7.** Deploy the BPEL project successfully and ensure that there are no error or warning messages during the deployment process.
- **8.** On the 11*g* system, create a target using the same name that was provided on the 10.1.3.4 system.
- **9.** Copy the deployed BPEL project into the 11*g* system.
- **10.** Edit the bpel.xml file for the WSDL location in the 10.1.3.4 project folder (Project_Name\bpel):

```
<property
name="wsdlLocation">http://192.168.128.125:80/orainfra/wsil/adapters/applicatio
ns/isdsrv2_CC_GetDetail_invoke.wsdl?wsdl</property>
</partnerLinkBinding>
```

Where the IP address and port number refer to the 10.1.3.4 system where the WSDL was generated.

- **11.** Ensure that the 10.1.3.4 server is up and running.
- **12.** Start Oracle JDeveloper 11g and migrate the 10.1.3.4 BPEL project.
- **13.** Once the project is migrated, a successful message is received in Oracle JDeveloper.
- **14.** Expand the migrated project and double-click the composite.xml file to ensure that the project opens without any errors.
- 15. Save and then deploy the migrated BPEL project.
- **16.** Ensure that there are no error or warning messages during the deployment process.
- **17.** Open the Oracle Enterprise Manager console and invoke the input XML in XML / Tree view to receive a successful response XML.

2.4 Upgrading a 10.1.3.x BPEL J2CA Inbound Process to 11g

Selecting a WSDL From the Local File System

- 1. On the 10.1.3.4 system, create a new target for Oracle Application Adapter for SAP R/3 using Application Explorer and connect to the target.
- **2.** Create a new channel for Oracle Application Adapter for SAP R/3.
- 3. Browse to a specific business object.
- 4. Generate the inbound WSDL for the specific business object.
- **5.** Restart the server.
- **6.** Start Oracle JDeveloper 10.1.3.4 and create a JCA inbound BPEL Project by selecting the inbound WSDL from the local file system in the Partner Link
- **7.** Deploy the BPEL project successfully and ensure that there are no error or warning messages during the deployment process.
- **8.** Trigger the event messages from the SAP R/3 system and ensure that successful instances are received in the BPEL Console.
- **9.** On the 11*g* system, create a target and channel using the same name that was provided on the 10.1.3.4 system.
- **10.** Copy the deployed BPEL project into the 11*g* system.
- **11.** Start Oracle JDeveloper 11g and migrate the 10.1.3.4 BPEL project.
- **12.** Once the project is migrated, a successful message is received in Oracle JDeveloper.
- **13.** Expand the migrated project and double-click the composite.xml file to ensure that the project opens without any errors.
- **14.** Double-click the J2CA properties file under the migrated project in Oracle JDeveloper and remove the following line:

```
<record-converter
className="com.iwaysoftware.afjca15.oracle.InboundXMLRecordConverterImpl"/>
```

```
<adapter-config name="MATMAS01" adapter="iWay ERP Adapter"
wsdlLocation="MATMAS01_receive.wsdl?wsdl"
xmlns="http://platform.integration.oracle/blocks/adapter/fw/metadata">
<resource-adapter
className="com.iwaysoftware.afjca15.IWAFOracleResourceAdapter"/><record-convert
er className="com.iwaysoftware.afjca15.oracle.InboundXMLRecordConverterImpl"/>
```

- **15.** Save and then deploy the migrated BPEL project.
- **16.** Ensure that there are no error or warning messages during the deployment process.
- **17.** Trigger the event messages from the SAP R/3 system and ensure that successful instances are received in the Oracle Enterprise Manager console.

Selecting a WSDL Using Service Explorer

- On the 10.1.3.4 system, create a new target for Oracle Application Adapter for SAP R/3 using Application Explorer and connect to the target.
- 2. Create a new channel for Oracle Application Adapter for SAP R/3.
- 3. Browse to a specific business object.
- 4. Generate the inbound WSDL for the specific business object.
- **5.** Restart the server.
- **6.** Start Oracle JDeveloper 10.1.3.4 and create a JCA inbound BPEL Project by selecting the inbound WSDL from the Service Explorer in the Partner Link.
- **7.** Deploy the BPEL project successfully and ensure that there are no error or warning messages during the deployment process.
- **8.** Trigger the event messages from the SAP R/3 system and ensure that successful instances are received in the BPEL Console.
- **9.** On the 11*g* system, create a target and channel using the same name that was provided on the 10.1.3.4 system.
- **10.** Copy the deployed BPEL project into the 11*g* system.
- **11.** Edit the bpel.xml file for the WSDL location in the 10.1.3.4 project folder (Project_Name\bpel):

```
<property
name="wsdlLocation">http://192.168.128.122:80/orainfra/wsil/adapters/applicatio
ns/MATMAS01_receive.wsdl?wsdl</property>
</partnerLinkBinding>
```

Where the IP address and port number refer to the 10.1.3.4 system where the WSDL was generated.

- **12.** Ensure that the 10.1.3.4 server is up and running.
- **13.** Start Oracle JDeveloper 11g and migrate the 10.1.3.4 BPEL project.
- **14.** Once the project is migrated, a successful message is received in Oracle JDeveloper.
- **15.** Expand the migrated project and double-click the composite.xml file to ensure that the project opens without any errors.
- **16.** Double-click the J2CA properties file under the migrated project in Oracle JDeveloper and remove the following line:

```
<record-converter
className="com.iwaysoftware.afjca15.oracle.InboundXMLRecordConverterImpl"/>
```

For example:

```
<adapter-config name="MATMAS01" adapter="iWay ERP Adapter"
wsdlLocation="MATMAS01_receive.wsdl?wsdl"
xmlns="http://platform.integration.oracle/blocks/adapter/fw/metadata">
<resource-adapter
className="com.iwaysoftware.afjca15.IWAFOracleResourceAdapter"/><record-convert
er className="com.iwaysoftware.afjca15.oracle.InboundXMLRecordConverterImpl"/>
```

17. Save and then deploy the migrated BPEL project.

- **18.** Ensure that there are no error or warning messages during the deployment process.
- **19.** Trigger the event messages from the SAP R/3 system and ensure that successful instances are received in the Oracle Enterprise Manager console.

Oracle Application Adapter for Siebel Upgrade Guidelines

This chapter lists and describes upgrade guidelines that are specific to the Oracle Application Adapter for Siebel.

This chapter discusses the following topics:

- Upgrading a 10.1.3.x ESB J2CA Outbound Process to 11g
- Upgrading a 10.1.3.x ESB J2CA Inbound Process to 11g
- Upgrading a 10.1.3.x BPEL J2CA Outbound Process to 11g
- Upgrading a 10.1.3.x BPEL J2CA Inbound Process to 11g

3.1 Upgrading a 10.1.3.x ESB J2CA Outbound Process to 11g

Selecting a WSDL From the Local File System

You can follow the same procedure in "Selecting a WSDL From the Local File System" on page 2-1.

Selecting a WSDL Using Service Explorer

You can follow the same procedure in "Selecting a WSDL Using Service Explorer" on page 2-2.

3.2 Upgrading a 10.1.3.x ESB J2CA Inbound Process to 11g

Selecting a WSDL From the Local File System

This section applies to **Siebel 7.7** systems.

- 1. On the 10.1.3.4 system, create a new target for Oracle Application Adapter for Siebel using Application Explorer and connect to the target.
- 2. Browse to a specific business object.
- **3.** Create an Integration Object node by selecting a Siebel generated schema file (.xsd) using Application Explorer.
- 4. Create a new HTTP channel for Oracle Application Adapter for Siebel.
- 5. Generate an inbound WSDL for this object.
- **6.** Modify the created 10.1.3.4 WSDL by replacing **www.siebel.com** with **www.iwaysoftware.com** in the three lines as shown in the following example:

Original 10.1.3.4 WSDL

Modified 10.1.3.4 WSDL

- **7.** Restart the server.
- **8.** Start Oracle JDeveloper 10.1.3.4 and create a JCA inbound ESB Project.
- **9.** In the Custom Adapter service, select the inbound WSDL from the local file system.
- **10.** Deploy the ESB project successfully and ensure the registration of the ESB project is successful.
- **11.** On the 11*g* system, ensure the target, Integration Object node, and channel are created, and named the same as on the 10.1.3.4 system. While configuring the channel, in the PreParser tab, provide the event schema location generated from Application Explorer (right-click the Integration Object node and export the schema in 11*g*).
- **12.** Copy the deployed ESB project into the 11*g* system.
- **13.** Start Oracle JDeveloper 11g and migrate the 10.1.3.4 ESB project.
- **14.** Once the project is migrated, a successful message is received in Oracle JDeveloper.
- **15.** Expand the migrated project and double-click the composite.xml file to ensure that the project opens without any errors.
- **16.** Double-click the J2CA properties file under the migrated project in Oracle JDeveloper and remove the following line:

```
<record-converter
className="com.iwaysoftware.afjca15.oracle.InboundXMLRecordConverterImpl"/>
```

```
<adapter-config name="samp_node" adapter="iWay ERP Adapter"
wsdlLocation="isdsrv22_sampleAcct_receive.wsdl"
xmlns="http://platform.integration.oracle/blocks/adapter/fw/metadata">
```

```
<resource-adapter
className="com.iwaysoftware.afjca15.IWAFOracleResourceAdapter"/>
<record-converter
className="com.iwaysoftware.afjca15.oracle.InboundXMLRecordConverterImpl"/>
```

- 17. Save and then deploy the migrated ESB project.
- **18.** Ensure that there are no error or warning messages during the deployment process.
- **19.** Trigger the event messages from the Siebel system and verify that successful response XML files are received in the specified output folder.

This section applies to **Siebel 7.0** systems.

- 1. On the 10.1.3.4 system, create a new target for Oracle Application Adapter for Siebel using Application Explorer and connect to the target.
- **2.** Browse to a specific business object.
- **3.** Create an Integration Object node by selecting a Siebel generated schema file (.xdr) using Application Explorer.
- **4.** Create a new HTTP channel for Oracle Application Adapter for Siebel.
- 5. Generate an inbound WSDL for this object.
- Modify the created 10.1.3.4 WSDL by replacing urn:iwaysoftware:adapter:siebel:oct2004:request with http://www.iwaysoftware.com/xml/Sample%20Account, where Sample%20Account is the name of the specific Integration Object that is displayed in Application Explorer, in the following three lines:

Original 10.1.3.4 WSDL

Modified 10.1.3.4 WSDL

- **7.** Restart the server.
- **8.** Start Oracle JDeveloper 10.1.3.4 and create a JCA inbound ESB Project.

- **9.** In the Custom Adapter service, select the inbound WSDL from the local file system.
- **10.** Deploy the ESB project successfully and ensure the registration of the ESB project is successful.
- **11.** On the 11*g* system, ensure the target, Integration Object node, and channel are created, and named the same as on the 10.1.3.4 system. While configuring the channel, in the PreParser tab, provide the event schema location generated from Application Explorer (right-click the Integration Object node and export the schema in 11*g*).
- **12.** Copy the deployed ESB project into the 11*g* system.
- **13.** Start Oracle JDeveloper 11g and migrate the 10.1.3.4 ESB project.
- **14.** Once the project is migrated, a successful message is received in Oracle JDeveloper.
- **15.** Expand the migrated project and double-click the composite.xml file to ensure that the project opens without any errors.
- **16.** Double-click the J2CA properties file under the migrated project in Oracle JDeveloper and remove the following line:

```
<record-converter
className="com.iwaysoftware.afjca15.oracle.InboundXMLRecordConverterImpl"/>
```

For example:

```
<adapter-config name="samp_node" adapter="iWay ERP Adapter"
wsdlLocation="isdsrv22_sampleAcct_receive.wsdl"
xmlns="http://platform.integration.oracle/blocks/adapter/fw/metadata">
<resource-adapter
className="com.iwaysoftware.afjca15.IWAFOracleResourceAdapter"/>
<record-converter
className="com.iwaysoftware.afjca15.oracle.InboundXMLRecordConverterImpl"/>
```

- **17.** Save and then deploy the migrated ESB project.
- **18.** Ensure that there are no error or warning messages during the deployment process.
- **19.** Trigger the event messages from the Siebel system and verify that successful response XML files are received in the specified output folder.

Selecting a WSDL Using Service Explorer

This section applies to **Siebel 7.7** systems.

- 1. On the 10.1.3.4 system, create a new target for Oracle Application Adapter for Siebel using Application Explorer and connect to the target.
- 2. Browse to a specific business object.
- **3.** Create an Integration Object node by selecting a Siebel generated schema file (.xsd) using Application Explorer.
- 4. Create a new HTTP channel for Oracle Application Adapter for Siebel.
- 5. Generate an inbound WSDL for this object.
- **6.** Modify the created 10.1.3.4 WSDL by replacing **www.siebel.com** with **www.iwaysoftware.com** in the three lines as shown in the following example:

Original 10.1.3.4 WSDL

Modified 10.1.3.4 WSDL

```
<definitions name="samp_node"
targetNamespace="http://xmlns.oracle.com/pcbpel/iWay/wsdl/Siebel/isdsrv22/samp_
node"
xmlns:iWayEvent="http://www.iwaysoftware.com/xml/Sample%20Account"
-------
<xsd:schema xmlns:xsd="http://www.w3.org/2001/XMLSchema"
targetNamespace="http://www.iwaysoftware.com/xml/Sample%20Account"
xmlns:xsdLocal="http://www.iwaysoftware.com/xml/Sample%20Account"
attributeFormDefault="unqualified" elementFormDefault="qualified">
<xsd:element name="SiebelMessage" type="xsdLocal:SiebelMessage"/>
```

- 7. Restart the server.
- **8.** Start Oracle JDeveloper 10.1.3.4 and create a JCA inbound ESB Project.
- **9.** In the Custom Adapter service, select the inbound WSDL using Service Explorer.
- **10.** Deploy the ESB project successfully and ensure the registration of the ESB project is successful.
- **11.** On the 11*g* system, ensure the target, Integration Object node, and channel are created, and named the same as on the 10.1.3.4 system. While configuring the channel, in the PreParser tab, provide the event schema location generated from Application Explorer (right-click the Integration Object node and export the schema in 11*g*).
- **12.** Copy the deployed ESB project into the 11*g* system.

Note: There is a patch BUG 9481515 - EXCEPTION THROWN WHILE MIGRATING 10.1.3.X I-WAY PROJECT FOR ALL ADPATERS New issue on Migration of ESB processes. For more information, see "BUG 9481515 Inbound" on page 1-24 on what has to be done if you apply the patch. If you do not apply the patch, then follow the next step or else skip it.

13. Open the project folder and edit the **DefaultSystem**_

CustomAdapterServiceName.esbsvc file (for example, DefaultSystem_SA.esbsvc) and **DefaultSystem_CustomAdapterServiceName_RS.esbsvc** file (for example, DefaultSystem_SA_RS.esbsvc) by modifying the WSDL URL in the serviceDefinition section. For example:

Original (DefaultSystem_SA.esbsvc)

```
<interface> <wsdlURL>http://127.0.0.1:80/orainfra/wsil/adapters/applications/
isdsrv22_SA_receive.wsdl?wsdl</wsdlURL>-----
</interface>
```

Modified (DefaultSystem_SA.esbsvc)

```
<interface><wsdluRL> isdsrv22_SA_receive.wsdl
</wsdluRL>-----
</interface>
```

Original (DefaultSystem_SA_RS.esbsvc)

```
<serviceDefinition><wsdlURL>http://127.0.0.1:80/orainfra/wsil/adapters/applicat
ions/ isdsrv22_SA_receive.wsdl?wsdl</wsdlURL>-----
</endpointDefinition>
</serviceDefinition>
```

Modified (DefaultSystem_SA_RS.esbsvc)

```
<serviceDefinition><wsdlURL> isdsrv22_SA_receive.wsdl
</wsdlURL>------
</endpointDefinition>
</serviceDefinition>
```

- **14.** Start Oracle JDeveloper 11g and migrate the 10.1.3.4 ESB project.
- **15.** Once the project is migrated, a successful message is received in Oracle JDeveloper.
- **16.** Expand the migrated project and double-click the composite.xml file to ensure that the project opens without any errors.
- **17.** Double-click the J2CA properties file under the migrated project in Oracle JDeveloper and remove the following line:

<record-converter className="com.iwaysoftware.afjca15.oracle.InboundXMLRecordConverterImpl"/>

For example:

```
<adapter-config name="samp_node" adapter="iWay ERP Adapter"
wsdlLocation="isdsrv22_sampleAcct_receive.wsdl"
xmlns="http://platform.integration.oracle/blocks/adapter/fw/metadata">
<resource-adapter
className="com.iwaysoftware.afjca15.IWAFOracleResourceAdapter"/>
<record-converter
className="com.iwaysoftware.afjca15.oracle.InboundXMLRecordConverterImpl"/>
```

- **18.** Save and then deploy the migrated ESB project.
- **19.** Ensure that there are no error or warning messages during the deployment process.
- **20.** Trigger the event messages from the Siebel system and verify that successful response XML files are received in the specified output folder.

This section applies to **Siebel 7.0** systems.

- 1. On the 10.1.3.4 system, create a new target for Oracle Application Adapter for Siebel using Application Explorer and connect to the target.
- **2.** Browse to a specific business object.
- **3.** Create an Integration Object node by selecting a Siebel generated schema file (.xdr) using Application Explorer.
- 4. Create a new HTTP channel for Oracle Application Adapter for Siebel.

- 5. Generate an inbound WSDL for this object.
- Modify the created 10.1.3.4 WSDL by replacing urn:iwaysoftware:adapter:siebel:oct2004:request with http://www.iwaysoftware.com/xml/Sample%20Account, where Sample%20Account is the name of the specific Integration Object that is displayed in Application Explorer, in the following three lines:

Original 10.1.3.4 WSDL

Modified 10.1.3.4 WSDL

- **7.** Restart the server.
- 8. Start Oracle JDeveloper 10.1.3.4 and create a JCA inbound ESB Project.
- **9.** In the Custom Adapter service, select the inbound WSDL using Service Explorer.
- **10.** Deploy the ESB project successfully and ensure the registration of the ESB project is successful.
- **11.** On the 11*g* system, ensure the target, Integration Object node, and channel are created, and named the same as on the 10.1.3.4 system. While configuring the channel, in the PreParser tab, provide the event schema location generated from Application Explorer (right-click the Integration Object node and export the schema in 11*g*).
- **12.** Copy the deployed ESB project into the 11*g* system.

Note: There is a patch BUG 9481515 - EXCEPTION THROWN WHILE MIGRATING 10.1.3.X I-WAY PROJECT FOR ALL ADPATERS New issue on Migration of ESB processes. For more information, see "BUG 9481515 Inbound" on page 1-24 on what has to be done if you apply the patch. If you do not apply the patch, then follow the next step or else skip it.

 Open the project folder and edit the DefaultSystem_ CustomAdapterServiceName.esbsvc file (for example, DefaultSystem_SA.esbsvc) and **DefaultSystem_CustomAdapterServiceName_RS.esbsvc** file (for example, DefaultSystem_SA_RS.esbsvc) by modifying the WSDL URL in the serviceDefinition section. For example:

Original (DefaultSystem_SA.esbsvc)

<interface> <wsdlURL>http://127.0.0.1:80/orainfra/wsil/adapters/applications/
ariba01_SA_receive.wsdl?wsdl</wsdlURL>-----</interface>

Modified (DefaultSystem_SA.esbsvc)

<interface><wsdlURL> ariba01_SA_receive.wsdl </wsdlURL>------

Original (DefaultSystem_SA_RS.esbsvc)

```
<serviceDefinition><wsdlURL>http://127.0.0.1:80/orainfra/wsil/adapters/applicat
ions/ ariba01_SA_receive.wsdl?wsdl</wsdlURL>------
</endpointDefinition>
</serviceDefinition>
```

Modified (DefaultSystem_SA_RS.esbsvc)

```
<serviceDefinition><wsdlURL> ariba01_SA_receive.wsdl
</wsdlURL>------
</endpointDefinition>
</serviceDefinition>
```

- 14. Start Oracle JDeveloper 11g and migrate the 10.1.3.4 ESB project.
- **15.** Once the project is migrated, a successful message is received in Oracle JDeveloper.
- **16.** Expand the migrated project and double-click the composite.xml file to ensure that the project opens without any errors.
- **17.** Double-click the J2CA properties file under the migrated project in Oracle JDeveloper and remove the following line:

```
<record-converter
className="com.iwaysoftware.afjca15.oracle.InboundXMLRecordConverterImpl"/>
```

```
<adapter-config name="samp_node" adapter="iWay ERP Adapter"
wsdlLocation="ariba01_sampleAcct_receive.wsdl"
xmlns="http://platform.integration.oracle/blocks/adapter/fw/metadata">
<resource-adapter
className="com.iwaysoftware.afjca15.IWAFOracleResourceAdapter"/>
<record-converter
className="com.iwaysoftware.afjca15.oracle.InboundXMLRecordConverterImpl"/>
```

- **18.** Save and then deploy the migrated ESB project.
- **19.** Ensure that there are no error or warning messages during the deployment process.
- **20.** Trigger the event messages from the Siebel system and verify that successful response XML files are received in the specified output folder.

3.3 Upgrading a 10.1.3.x BPEL J2CA Outbound Process to 11g

Selecting a WSDL From the Local File System

You can follow the same procedure in "Selecting a WSDL From the Local File System" on page 2-5.

Selecting a WSDL Using Service Explorer

You can follow the same procedure in "Selecting a WSDL Using Service Explorer" on page 2-6.

3.4 Upgrading a 10.1.3.x BPEL J2CA Inbound Process to 11g

Selecting a WSDL From the Local File System

- 1. On the 10.1.3.4 system, create a new target for Oracle Application Adapter for Siebel using Application Explorer and connect to the target.
- **2.** Browse to the particular business object. Create an Integration Object node by selecting the Siebel generated XSD/XDR file using Application Explorer.
- **3.** Create a new HTTP channel for Oracle Application Adapter for Siebel.
- 4. Generate the inbound WSDL for the specific business object.
- 5. Restart the server.
- **6.** Start Oracle JDeveloper 10.1.3.4 and create a JCA inbound BPEL Project by selecting the inbound WSDL from the local file system in the Partner Link
- **7.** Deploy the BPEL project successfully and ensure that there are no error or warning messages during the deployment process.
- **8.** Trigger the event messages from the Siebel system and ensure that successful instances are received in the BPEL Console.
- **9.** On the 11*g* system, ensure the target, Integration Object node, and channel are created, and named the same as on the 10.1.3.4 system. While configuring the channel, in the PreParser tab, provide the event schema location generated from Application Explorer (right-click the Integration Object node and export the schema in 11*g*).
- **10.** Copy the deployed BPEL project into the 11*g* system.
- **11.** Start Oracle JDeveloper 11g and migrate the 10.1.3.4 BPEL project.
- **12.** Once the project is migrated, a successful message is received in Oracle JDeveloper.
- **13.** Expand the migrated project and double-click the composite.xml file to ensure that the project opens without any errors.
- **14.** Double-click the J2CA properties file under the migrated project in Oracle JDeveloper and remove the following line:

```
<record-converter
className="com.iwaysoftware.afjca15.oracle.InboundXMLRecordConverterImpl"/>
```

```
<adapter-config name="samp_node" adapter="iWay ERP Adapter"
wsdlLocation="isdsrv22_sampleAcct_receive.wsdl"
xmlns="http://platform.integration.oracle/blocks/adapter/fw/metadata">
```

```
<resource-adapter
className="com.iwaysoftware.afjca15.IWAFOracleResourceAdapter"/>
<record-converter
className="com.iwaysoftware.afjca15.oracle.InboundXMLRecordConverterImpl"/>
```

- **15.** Save and then deploy the migrated BPEL project.
- **16.** Ensure that there are no error or warning messages during the deployment process.
- **17.** Trigger the event messages from the Siebel system and ensure that successful instances are received in the Oracle Enterprise Manager console.

Selecting a WSDL Using Service Explorer

- 1. On the 10.1.3.4 system, create a new target for Oracle Application Adapter for Siebel using Application Explorer and connect to the target.
- **2.** Browse to the particular business object. Create an Integration Object node by selecting the Siebel generated XSD/XDR file using Application Explorer.
- 3. Create a new HTTP channel for Oracle Application Adapter for Siebel.
- 4. Generate the inbound WSDL for the specific business object.
- **5.** Restart the server.
- **6.** Start Oracle JDeveloper 10.1.3.4 and create a JCA inbound BPEL Project by selecting the inbound WSDL from the Service Explorer in the Partner Link
- **7.** Deploy the BPEL project successfully and ensure that there are no error or warning messages during the deployment process.
- **8.** Trigger the event messages from the Siebel system and ensure that successful instances are received in the BPEL Console.
- **9.** On the 11*g* system, ensure the target, Integration Object node, and channel are created, and named the same as on the 10.1.3.4 system. While configuring the channel, in the PreParser tab, provide the event schema location generated from Application Explorer (right-click the Integration Object node and export the schema in 11*g*).
- **10.** Copy the deployed BPEL project into the 11g system.
- **11.** Edit the **bpel.xml** file for the WSDL location in the 10.1.3.4 project folder (Project_Name\bpel):

```
<property
aname="wsdlLocation">http://192.168.128.125:80/orainfra/wsil/adapters/application
ns/isdsrv22_sampleAcct_receive.wsdl?wsdl</property>
</partnerLinkBinding>
```

Where the IP address and port number refer to the 10.1.3.4 system where the WSDL was generated.

- **12.** Ensure that the 10.1.3.4 server is up and running.
- **13.** Start Oracle JDeveloper 11g and migrate the 10.1.3.4 BPEL project.
- **14.** Once the project is migrated, a successful message is received in Oracle JDeveloper.
- **15.** Expand the migrated project and double-click the composite.xml file to ensure that the project opens without any errors.

16. Double-click the J2CA properties file under the migrated project in Oracle JDeveloper and remove the following line:

```
<record-converter
className="com.iwaysoftware.afjca15.oracle.InboundXMLRecordConverterImpl"/>
```

```
<adapter-config name="samp_node" adapter="iWay ERP Adapter"
wsdlLocation="isdsrv22_sampleAcct_receive.wsdl"
xmlns="http://platform.integration.oracle/blocks/adapter/fw/metadata">
<resource-adapter
className="com.iwaysoftware.afjca15.IWAFOracleResourceAdapter"/>
<record-converter
className="com.iwaysoftware.afjca15.oracle.InboundXMLRecordConverterImpl"/>
```

- 17. Save and then deploy the migrated BPEL project.
- **18.** Ensure that there are no error or warning messages during the deployment process.
- **19.** Trigger the event messages from the Siebel system and ensure that successful instances are received in the Oracle Enterprise Manager console.

Oracle Application Adapter for PeopleSoft Upgrade Guidelines

This chapter lists and describes upgrade guidelines that are specific to the Oracle Application Adapter for PeopleSoft.

This chapter includes the following topics:

- Upgrading a 10.1.3.x ESB J2CA Outbound Process to 11g
- Upgrading a 10.1.3.x ESB J2CA Inbound Process to 11g
- Upgrading a 10.1.3.x BPEL J2CA Outbound Process to 11g
- Upgrading a 10.1.3.x BPEL J2CA Inbound Process to 11g

4.1 Upgrading a 10.1.3.x ESB J2CA Outbound Process to 11g

Selecting a WSDL From the Local File System

You can follow the same procedure in "Selecting a WSDL From the Local File System" on page 2-1.

Selecting a WSDL Using Service Explorer

You can follow the same procedure in "Selecting a WSDL Using Service Explorer" on page 2-2.

4.2 Upgrading a 10.1.3.x ESB J2CA Inbound Process to 11g

Selecting a WSDL From the Local File System

- 1. On the 10.1.3.4 system, create a new target for Oracle Application Adapter for PeopleSoft using Application Explorer and connect to the target.
- 2. Create a new channel for Oracle Application Adapter for PeopleSoft.
- **3.** Browse to a specific business object and generate an inbound WSDL for this object.

Note: There is a patch BUG 9411107 - EXCEPTION THROWN WHILE MIGRATING 10.1.3.X I-WAY PROJECT. Issue on Migration of ESB processes for PeopleSoft. For more information, see "BUG 9411107" on page 1-24 on what has to be done if you apply the patch. If you do not apply the patch, then follow the next step or else skip it.

- Modify the WSDL by replacing the period (.) character in DEPT_ SYNC.VERSION_1 to some other character (for example, an underscore '_', DEPT_SYNC_VERSION_1). There are nearly 19 occurrences in the 10.1.3.4 WSDL for the DEPT_SYNC object.
- **5.** Restart the server.
- 6. Start Oracle JDeveloper 10.1.3.4 and create a JCA inbound ESB Project.
- **7.** In the Custom Adapter service, select the inbound WSDL from the local file system.
- **8.** Deploy the ESB project successfully and ensure the registration of the ESB project is successful.
- **9.** On the 11*g* system, create a target and channel using the same name that was provided on the 10.1.3.4 system.
- **10.** Copy the deployed ESB project into the 11*g* system.
- **11.** Start Oracle JDeveloper 11g and migrate the 10.1.3.4 ESB project.
- **12.** Once the project is migrated, a successful message is received in Oracle JDeveloper.
- **13.** Expand the migrated project and double-click the composite.xml file to ensure that the project opens without any errors.
- **14.** Double-click the J2CA properties file under the migrated project in Oracle JDeveloper and remove the following line:

```
<record-converter
className="com.iwaysoftware.afjca15.oracle.InboundXMLRecordConverterImpl"/>
```

For example:

```
<adapter-config name="DEPT_SYNC_VERSION_1" adapter="iWay ERP Adapter"
wsdlLocation="isdsrv14_DEPT_SYNC_receive.wsdl"
xmlns="http://platform.integration.oracle/blocks/adapter/fw/metadata">
<resource-adapter
className="com.iwaysoftware.afjca15.IWAFOracleResourceAdapter"/><record-convert
er className="com.iwaysoftware.afjca15.oracle.InboundXMLRecordConverterImpl"/>
```

- **15.** Save and then deploy the migrated ESB project.
- **16.** Ensure that there are no error or warning messages during the deployment process.
- **17.** Trigger the event messages from the ERP system (for example, PeopleTools) and verify that successful response XML files are received in the specified output folder.

Selecting a WSDL Using Service Explorer

- 1. On the 10.1.3.4 system, create a new target for Oracle Application Adapter for PeopleSoft using Application Explorer and connect to the target.
- 2. Create a new channel for Oracle Application Adapter for PeopleSoft.
- **3.** Browse to a specific business object and generate an inbound WSDL for this object.

Note: There is a patch BUG 9411107 - EXCEPTION THROWN WHILE MIGRATING 10.1.3.X I-WAY PROJECT. Issue on Migration of ESB processes for PeopleSoft. For more information, see "BUG 9411107" on page 1-24 on what has to be done if you apply the patch. If you do not apply the patch, then follow the next step or else skip it.

- Modify the WSDL by replacing the period (.) character in DEPT_ SYNC.VERSION_1 to some other character (for example, an underscore '_', DEPT_SYNC_VERSION_1). There are nearly 19 occurrences in the 10.1.3.4 WSDL for the DEPT_SYNC object.
- 5. Restart the server.
- 6. Start Oracle JDeveloper 10.1.3.4 and create a JCA inbound ESB Project.
- 7. In the Custom Adapter service, select the inbound WSDL using Service Explorer.
- **8.** Deploy the ESB project successfully and ensure the registration of the ESB project is successful.
- **9.** On the 11*g* system, create a target and channel using the same name that was provided on the 10.1.3.4 system.
- **10.** Copy the deployed ESB project into the 11*g* system.
- 11. Open the project folder and edit the DefaultSystem_ CustomAdapterServiceName.esbsvc file (for example, DefaultSystem_dept_sync_ wsdl_brows.esbsvc) and DefaultSystem_CustomAdapterServiceName_ RS.esbsvc file (for example, DefaultSystem_dept_sync_wsdl_brows_RS.esbsvc) by modifying the WSDL URL in the serviceDefinition section. For example:

Original (DefaultSystem_dept_sync_wsdl_brows.esbsvc)

```
<interface> <wsdlURL>http://127.0.0.1:80/orainfra/wsil/adapters/applications/
isdsrv14_DEPT_SYNC_receive_esb.wsdl?wsdl</wsdlURL>------
</interface>
```

Modified (DefaultSystem_dept_sync_wsdl_brows.esbsvc)

```
<interface><wsdlURL> isdsrv14_DEPT_SYNC_receive_
esb.wsdl</wsdlURL>------
</interface>
```

Original (DefaultSystem_dept_sync_wsdl_brows_RS.esbsvc)

```
<serviceDefinition><wsdlURL>http://127.0.0.1:80/orainfra/wsil/adapters/applicat
ions/ isdsrv14_DEPT_SYNC_receive_
esb.wsdl?wsdl</wsdlURL>-----
</endpointDefinition>
</serviceDefinition>
```

Modified (DefaultSystem_dept_sync_wsdl_brows_RS.esbsvc)

```
<serviceDefinition><wsdlURL> isdsrv14_DEPT_SYNC_receive_
esb.wsdl</wsdlURL>------
</endpointDefinition>
</serviceDefinition>
```

- **12.** Start Oracle JDeveloper 11g and migrate the 10.1.3.4 ESB project.
- **13.** Once the project is migrated, a successful message is received in Oracle JDeveloper.

- **14.** Expand the migrated project and double-click the composite.xml file to ensure that the project opens without any errors.
- **15.** Double-click the J2CA properties file under the migrated project in Oracle JDeveloper and remove the following line:

```
<record-converter
className="com.iwaysoftware.afjca15.oracle.InboundXMLRecordConverterImpl"/>
```

For example:

```
<adapter-config name="DEPT_SYNC_VERSION_1" adapter="iWay ERP Adapter"
wsdlLocation="isdsrv14_DEPT_SYNC_receive.wsdl"
xmlns="http://platform.integration.oracle/blocks/adapter/fw/metadata">
<resource-adapter
className="com.iwaysoftware.afjca15.IWAFOracleResourceAdapter"/><record-convert
er className="com.iwaysoftware.afjca15.oracle.InboundXMLRecordConverterImpl"/>
```

- **16.** Save and then deploy the migrated ESB project.
- **17.** Ensure that there are no error or warning messages during the deployment process.
- **18.** Trigger the event messages from the ERP system (for example, PeopleTools) and verify that successful response XML files are received in the specified output folder.

4.3 Upgrading a 10.1.3.x BPEL J2CA Outbound Process to 11g

Selecting a WSDL From the Local File System

- 1. On the 10.1.3.4 system, create a new target for Oracle Application Adapter for PeopleSoft using Application Explorer and connect to the target.
- **2.** Browse to a specific business object and export the schemas into the default location.
- 3. Generate the outbound WSDL for the specific business object.
- **4.** Modify the request and response schema that was exported from Application Explorer by changing the **elementFormDefault** value from **unqualified** to **qualified**.
- **5.** Restart the server.
- **6.** Start Oracle JDeveloper 10.1.3.4 and create a JCA outbound BPEL Project by uploading the request and response schema that is modified in step 4.
- 7. In the Partner Link, select the outbound WSDL from the local file system.
- **8.** Deploy the BPEL project successfully and ensure that there are no error or warning messages during the deployment process.
- **9.** On the 11*g* system, create a target using the same name that was provided on the 10.1.3.4 system.
- **10.** Copy the deployed BPEL project into the 11g system.
- 11. Start Oracle JDeveloper 11g and migrate the 10.1.3.4 BPEL project.
- **12.** Once the project is migrated, a successful message is received in Oracle JDeveloper.

- **13.** Expand the migrated project and double-click the composite.xml file to ensure that the project opens without any errors.
- **14.** Save and then deploy the migrated BPEL project.
- **15.** Ensure that there are no error or warning messages during the deployment process.
- **16.** Open the Oracle Enterprise Manager console and invoke the input XML in XML / Tree view to receive a successful response XML.

Selecting a WSDL Using Service Explorer

- 1. On the 10.1.3.4 system, create a new target for Oracle Application Adapter for PeopleSoft using Application Explorer and connect to the target.
- **2.** Browse to a specific business object and export the schemas into the default location.
- 3. Generate the outbound WSDL for the specific business object.
- **4.** Modify the request and response schema that was exported from Application Explorer by changing the **elementFormDefault** value from **unqualified** to **qualified**.
- 5. Restart the server.
- **6.** Start Oracle JDeveloper 10.1.3.4 and create a JCA outbound BPEL Project by uploading the request and response schema that is modified in step 4.
- 7. In the Partner Link, select the outbound WSDL from Service Explorer.
- **8.** Deploy the BPEL project successfully and ensure that there are no error or warning messages during the deployment process.
- **9.** On the 11*g* system, create a target using the same name that was provided on the 10.1.3.4 system.
- **10.** Copy the deployed BPEL project into the 11*g* system.
- **11.** Edit the bpel.xml file for the WSDL location in the 10.1.3.4 project folder (Project_Name\bpel):

```
cpartnerLinkBinding name="DEPT">
<property
name="wsdlLocation">http://192.168.128.125:80/orainfra/wsil/adapters/applicatio
ns/isdsrv14_DEPT_invoke.wsdl?wsdl </property>
</partnerLinkBinding>
```

Where the IP address and port number refer to the 10.1.3.4 system where the WSDL was generated.

- **12.** Ensure that the 10.1.3.4 server is up and running.
- **13.** Start Oracle JDeveloper 11g and migrate the 10.1.3.4 BPEL project.
- **14.** Once the project is migrated, a successful message is received in Oracle JDeveloper.
- **15.** Expand the migrated project and double-click the composite.xml file to ensure that the project opens without any errors.
- **16.** Save and then deploy the migrated BPEL project.
- **17.** Ensure that there are no error or warning messages during the deployment process.

18. Open the Oracle Enterprise Manager console and invoke the input XML in XML / Tree view to receive a successful response XML.

4.4 Upgrading a 10.1.3.x BPEL J2CA Inbound Process to 11g

Selecting a WSDL From the Local File System

You can follow the same procedure in "Selecting a WSDL From the Local File System" on page 2-7.

Selecting a WSDL Using Service Explorer

You can follow the same procedure in "Selecting a WSDL Using Service Explorer" on page 2-8.

Oracle Application Adapter for J.D. Edwards OneWorld Upgrade Guidelines

This chapter lists and describes upgrade guidelines that are specific to the Oracle Application Adapter for J.D. Edwards OneWorld.

This chapter contains the following examples:

- Upgrading a 10.1.3.x ESB J2CA Outbound Process to 11g
- Upgrading a 10.1.3.x ESB J2CA Inbound Process to 11g
- Upgrading a 10.1.3.x BPEL J2CA Outbound Process to 11g
- Upgrading a 10.1.3.x BPEL J2CA Inbound Process to 11g

5.1 Upgrading a 10.1.3.x ESB J2CA Outbound Process to 11g

Selecting a WSDL From the Local File System

You can follow the same procedure in "Selecting a WSDL From the Local File System" on page 2-1.

Selecting a WSDL Using Service Explorer

You can follow the same procedure in "Selecting a WSDL Using Service Explorer" on page 2-2.

5.2 Upgrading a 10.1.3.x ESB J2CA Inbound Process to 11g

Selecting a WSDL From the Local File System

- **1.** On the 10.1.3.4 system, create a new target for Oracle Application Adapter for J.D. Edwards OneWorld using Application Explorer and connect to the target.
- 2. Browse to a specific business object.
- **3.** Create a new port and TCP channel for Oracle Application Adapter for J.D. Edwards OneWorld.
- **4.** Trigger from the back-end and generate a schema with the response XML that was received in the port location using XMLSpy.
- 5. Copy the generated schema (.xsd file) in the following location:

<soadp1>\adapters\application\config\jca_sample\schemas\JDEdwards\target

6. Generate an inbound WSDL manually using the generated schema.

7. Make the following changes to the generated WSDL, as shown in the following examples:

Change 1

Replace **Schemas-jdedwards-com** to **iwaysoftware** in the target namespace:

```
<xs:schema
```

```
targetNamespace="urn:Schemas-jdedwards-com:trans.response.JDESOOUT"
    xmlns="urn:Schemas-jdedwards-com:trans.response.JDESOOUT"
    xmlns:xs=http://www.w3.org/2001/XMLSchema elementFormDefault="qualified">
```

to:

```
<xs:schema
    targetNamespace="urn:iwaysoftware:trans.response.JDESOOUT"
    xmlns="urn:iwaysoftware:trans.response.JDESOOUT"
xmlns:xs=http://www.w3.org/2001/XMLSchema elementFormDefault="qualified">
```

Change 2

Cut and place the **<xs:element name="jdeResponse"></xs:element>** section before the **<xs:element name="transaction">** section in the WSDL as shown in the following example:

Change 3

Replace **iWayEvent:transaction** to **iWayEvent:jdeResponse**, which is located in the <message name="event"> section:

```
<message name="event">
    <part name="event_jde_inbound" element="iWayEvent:transaction"/>
</message>
```

to:

```
<message name="event">
<part name="event_jde_inbound" element="iWayEvent:jdeResponse"/>
</message>
```

- **8.** Restart the server.
- 9. Start Oracle JDeveloper 10.1.3.4 and create a JCA inbound ESB Project.
- **10.** In the Custom Adapter service, select the inbound WSDL from the local file system.
- **11.** Deploy the ESB project successfully and ensure the registration of the ESB project is successful.
- **12.** On the 11*g* system, ensure that the target and channel that are created use the same name as specified on the 10.1.3.4 system. Copy the 10.1.3.4 schema and modify the 10.1.3.4 schema (jdeschema.xsd) as described in step 7 (only change 1 and change 2), which is used for 10.1.3.4 inbound WSDL creation. While creating the channel on the 11*g* system, in the PreParser tab, provide the modified event schema location (for example, c:\jdeschema.xsd).

- **13.** Copy the deployed ESB project into the 11*g* system.
- 14. Start the Oracle JDeveloper 11g and migrate the 10.1.3.4 ESB project.
- **15.** Once the project is migrated, a successful message is received in Oracle JDeveloper.
- **16.** Expand the migrated project and double-click the composite.xml file to ensure that the project opens without any errors.
- **17.** Double-click the J2CA properties file under the migrated project in Oracle JDeveloper and remove the following line:

```
<record-converter
className="com.iwaysoftware.afjca15.oracle.InboundXMLRecordConverterImpl"/>
```

For example:

```
<adapter-config name="jde90_schema_ori" adapter="iWay ERP Adapter"
wsdlLocation="jde9_salesorder_tcp_Feb27.wsdl"
xmlns="http://platform.integration.oracle/blocks/adapter/fw/metadata">
<resource-adapter
className="com.iwaysoftware.afjca15.IWAFOracleResourceAdapter"/>
<record-converter
className="com.iwaysoftware.afjca15.oracle.InboundXMLRecordConverterImpl"/>
```

- **18.** Save and then deploy the migrated ESB project.
- **19.** Ensure that there are no error or warning messages during the deployment process.
- **20.** Trigger the event messages from the J.D. Edwards OneWorld system and verify that successful response XML files are received in the specified output folder.

Selecting a WSDL Using Service Explorer

- 1. On the 10.1.3.4 system, create a new target for Oracle Application Adapter for J.D. Edwards OneWorld using Application Explorer and connect to the target.
- **2.** Browse to a specific business object.
- **3.** Create a new port and TCP channel for Oracle Application Adapter for J.D. Edwards OneWorld.
- **4.** Trigger from the back-end and generate a schema with the response XML that was received in the port location using XMLSpy.
- **5.** Copy the generated schema (.xsd file) in the following location:

<soadp1>\adapters\application\config\jca_sample\schemas\JDEdwards\target

- **6.** Generate an inbound WSDL manually using the generated schema.
- **7.** Make the following changes to the generated WSDL, as shown in the following examples:

Change 1

Replace **Schemas-jdedwards-com** to **iwaysoftware** in the target namespace:

```
<xs:schema
    targetNamespace="urn:iwaysoftware:trans.response.JDESOOUT"
    xmlns="urn:iwaysoftware:trans.response.JDESOOUT"
xmlns:xs=http://www.w3.org/2001/XMLSchema elementFormDefault="qualified">
```

Change 2

Cut and place the **<xs:element name="jdeResponse"></xs:element>** section before the **<xs:element name="transaction">** section in the WSDL as shown in the following example:

Change 3

Replace **iWayEvent:transaction** to **iWayEvent:jdeResponse**, which is located in the <message name="event"> section:

```
<message name="event">
    <part name="event_jde_inbound" element="iWayEvent:transaction"/>
</message>
```

to:

```
<message name="event">
    <part name="event_jde_inbound" element="iWayEvent:jdeResponse"/>
</message>
```

- **8.** Restart the server.
- 9. Start Oracle JDeveloper 10.1.3.4 and create a JCA inbound ESB Project.
- **10.** In the Custom Adapter service, select the inbound WSDL using Service Explorer.
- **11.** Deploy the ESB project successfully and ensure the registration of the ESB project is successful.
- **12.** On the 11*g* system, ensure that the target and channel that are created use the same name as specified on the 10.1.3.4 system. Copy the 10.1.3.4 schema and modify the 10.1.3.4 schema (jdeschema.xsd) as described in step 7 (only change 1 and change 2), which is used for 10.1.3.4 inbound WSDL creation. While creating the channel on the 11*g* system, in the PreParser tab, provide the modified event schema location (for example, c:\jdeschema.xsd).
- **13.** Copy the deployed ESB project into the 11*g* system.

Note: There is a patch BUG 9481515 - EXCEPTION THROWN WHILE MIGRATING 10.1.3.X I-WAY PROJECT FOR ALL ADPATERS New issue on Migration of ESB processes. For more information, see "BUG 9481515 Inbound" on page 1-24 on what has to be done if you apply the patch. If you do not apply the patch, then follow the next step or else skip it.

14. Open the project folder and edit the DefaultSystem_ CustomAdapterServiceName.esbsvc file (for example, DefaultSystem_ SalesOrder.esbsvc) and DefaultSystem_CustomAdapterServiceName_RS.esbsvc file (for example, DefaultSystem_SalesOrder_RS.esbsvc) by modifying the WSDL URL in the serviceDefinition section. For example:

Original (DefaultSystem_SalesOrder.esbsvc)

```
<interface> <wsdlURL>http://127.0.0.1:80/orainfra/wsil/adapters/applications/
jde90_SalesOrder_receive.wsdl?wsdl</wsdlURL>-----
</interface>
```

Modified (DefaultSystem_SalesOrder.esbsvc)

```
<interface><wsdluRL> jde90_SalesOrder_receive.wsdl
</wsdluRL>-----
</interface>
```

Original (DefaultSystem_SalesOrder_RS.esbsvc)

```
<serviceDefinition><wsdlURL>http://127.0.0.1:80/orainfra/wsil/adapters/applicat
ions/ jde90_SalesOrder_receive.wsdl?wsdl</wsdlURL>------
</endpointDefinition>
</serviceDefinition>
```

Modified (DefaultSystem_SalesOrder_RS.esbsvc)

- **15.** Start Oracle JDeveloper 11g and migrate the 10.1.3.4 ESB project.
- **16.** Once the project is migrated, a successful message is received in Oracle JDeveloper.
- **17.** Expand the migrated project and double-click the composite.xml file to ensure that the project opens without any errors.
- **18.** Double-click the J2CA properties file under the migrated project in Oracle JDeveloper and remove the following line:

```
<record-converter
className="com.iwaysoftware.afjca15.oracle.InboundXMLRecordConverterImpl"/>
```

```
<adapter-config name="jde90_schema_ori" adapter="iWay ERP Adapter"
wsdlLocation="jde9_salesorder_tcp_Feb27.wsdl"
xmlns="http://platform.integration.oracle/blocks/adapter/fw/metadata">
<resource-adapter
className="com.iwaysoftware.afjca15.IWAFOracleResourceAdapter"/>
<record-converter
className="com.iwaysoftware.afjca15.oracle.InboundXMLRecordConverterImpl"/>
```

- **19.** Save and then deploy the migrated ESB project.
- **20.** Ensure that there are no error or warning messages during the deployment process.
- **21.** Trigger the event messages from the J.D. Edwards OneWorld system and verify that successful response XML files are received in the specified output folder.

5.3 Upgrading a 10.1.3.x BPEL J2CA Outbound Process to 11g

Selecting a WSDL From the Local File System

You can follow the same procedure in "Selecting a WSDL From the Local File System" on page 2-5.

Selecting a WSDL Using Service Explorer

You can follow the same procedure in "Selecting a WSDL Using Service Explorer" on page 2-6.

5.4 Upgrading a 10.1.3.x BPEL J2CA Inbound Process to 11g

Selecting a WSDL From the Local File System

- 1. On the 10.1.3.4 system, create a new target for Oracle Application Adapter for J.D. Edwards OneWorld using Application Explorer and connect to the target.
- 2. Browse to a specific business object.
- **3.** Create a new port and TCP channel for Oracle Application Adapter for J.D. Edwards OneWorld.
- **4.** Trigger from the back-end and generate a schema with the response XML that was received in the port location using XMLSpy.
- **5.** Copy the generated schema (.xsd file) in the following location:

<soadp1>\adapters\application\config\jca_sample\schemas\JDEdwards\target

- 6. Generate an inbound WSDL manually using the generated schema.
- **7.** Make the following changes to the generated WSDL, as shown in the following examples:

Change 1

Replace **Schemas-jdedwards-com** to **iwaysoftware** in the target namespace:

```
<xs:schema
targetNamespace="urn:Schemas-jdedwards-com:trans.response.JDESOOUT"
xmlns="urn:Schemas-jdedwards-com:trans.response.JDESOOUT"
xmlns:xs=http://www.w3.org/2001/XMLSchema elementFormDefault="qualified">
```

to:

```
<xs:schema
```

```
targetNamespace="urn:iwaysoftware:trans.response.JDESOOUT"
    xmlns="urn:iwaysoftware:trans.response.JDESOOUT"
xmlns:xs=http://www.w3.org/2001/XMLSchema elementFormDefault="qualified">>
```

Change 2

Cut and place the **<xs:element name="jdeResponse"></xs:element>** section before the **<xs:element name="transaction">** section in the WSDL as shown in the following example:

```
</xs:element>
```

```
<xs:element name="transaction">
```

Change 3

Replace **iWayEvent:transaction** to **iWayEvent:jdeResponse**, which is located in the <message name="event"> section:

```
<message name="event">
    <part name="event_jde_inbound" element="iWayEvent:transaction"/>
</message>
```

to:

```
<message name="event">
    <part name="event_jde_inbound" element="iWayEvent:jdeResponse"/>
</message>
```

- **8.** Restart the server.
- **9.** Start Oracle JDeveloper 10.1.3.4 and create the inbound BPEL Process by selecting the inbound WSDL from the local file system in the Partner Link.
- **10.** Deploy the BPEL process successfully and ensure there are no error or warning messages during deployment.
- **11.** Trigger the event messages from the J.D. Edwards OneWorld system and ensure that successful instances are received in the BPEL Console.
- **12.** On the 11*g* system, ensure that the target and channel that are created use the same name as specified on the 10.1.3.4 system. Copy the 10.1.3.4 schema and modify the 10.1.3.4 schema (jdeschema.xsd) as described in step 7 (only change 1 and change 2), which is used for 10.1.3.4 inbound WSDL creation. While creating the channel on the 11*g* system, in the PreParser tab, provide the modified event schema location (for example, c:\jdeschema.xsd).
- **13.** Copy the deployed BPEL project into the 11g system.
- **14.** Start Oracle JDeveloper 11g and migrate the 10.1.3.4 BPEL project.
- **15.** Once the project is migrated, a successful message is received in Oracle JDeveloper.
- **16.** Expand the migrated project and double-click the composite.xml file to ensure that the project opens without any errors.
- **17.** Double-click the J2CA properties file under the migrated project in Oracle JDeveloper and remove the following line:

```
<record-converter
className="com.iwaysoftware.afjca15.oracle.InboundXMLRecordConverterImpl"/>
```

For example:

```
<adapter-config name="jde90_schema_ori" adapter="iWay ERP Adapter"
wsdlLocation="jde9_salesorder_tcp_Feb27.wsdl"
xmlns="http://platform.integration.oracle/blocks/adapter/fw/metadata">
<resource-adapter
className="com.iwaysoftware.afjca15.IWAFOracleResourceAdapter"/>
<record-converter
className="com.iwaysoftware.afjca15.oracle.InboundXMLRecordConverterImpl"/>
```

18. Save and then deploy the migrated BPEL project.

- **19.** Ensure that there are no error or warning messages during the deployment process.
- **20.** Trigger the event messages from the J.D. Edwards OneWorld system and ensure that successful instances are received in the Oracle Enterprise Manager console.

Selecting a WSDL Using Service Explorer

- 1. On the 10.1.3.4 system, create a new target for Oracle Application Adapter for J.D. Edwards OneWorld using Application Explorer and connect to the target.
- **2.** Browse to a specific business object.
- **3.** Create a new port and TCP channel for Oracle Application Adapter for J.D. Edwards OneWorld.
- **4.** Trigger from the back-end and generate a schema with the response XML that was received in the port location using XMLSpy.
- 5. Copy the generated schema (.xsd file) in the following location:

<soadp1>\adapters\application\config\jca_sample\schemas\JDEdwards\target

- 6. Generate an inbound WSDL manually using the generated schema.
- **7.** Make the following changes to the generated WSDL, as shown in the following examples:

Change 1

Replace **Schemas-jdedwards-com** to **iwaysoftware** in the target namespace:

```
<xs:schema
```

```
targetNamespace="urn:Schemas-jdedwards-com:trans.response.JDESOOUT"
    xmlns="urn:Schemas-jdedwards-com:trans.response.JDESOOUT"
    xmlns:xs=http://www.w3.org/2001/XMLSchema elementFormDefault="qualified">
```

to:

```
<xs:schema
    targetNamespace="urn:iwaysoftware:trans.response.JDESOOUT"
    xmlns="urn:iwaysoftware:trans.response.JDESOOUT"
xmlns:xs=http://www.w3.org/2001/XMLSchema elementFormDefault="qualified">
```

Change 2

Cut and place the **<xs:element name="jdeResponse"></xs:element>** section before the **<xs:element name="transaction">** section in the WSDL as shown in the following example:

Change 3

Replace **iWayEvent:transaction** to **iWayEvent:jdeResponse**, which is located in the <message name="event"> section:

```
<message name="event">
    <part name="event_jde_inbound" element="iWayEvent:transaction"/>
</message>
```

to:

```
<message name="event">
    <part name="event_jde_inbound" element="iWayEvent:jdeResponse"/>
</message>
```

- 8. Restart the server.
- **9.** Start Oracle JDeveloper 10.1.3.4 and create the inbound BPEL Process by selecting the inbound WSDL from the Service Explorer in the Partner Link.
- **10.** Deploy the BPEL process successfully and ensure there are no error or warning messages during deployment.
- **11.** Trigger the event messages from the J.D. Edwards OneWorld system and ensure that successful instances are received in the BPEL Console.
- **12.** On the 11*g* system, ensure that the target and channel that are created use the same name as specified on the 10.1.3.4 system. Copy the 10.1.3.4 schema and modify the 10.1.3.4 schema (jdeschema.xsd) as described in step 7 (only change 1 and change 2), which is used for 10.1.3.4 inbound WSDL creation. While creating the channel on the 11*g* system, in the PreParser tab, provide the modified event schema location (for example, c:\jdeschema.xsd).
- **13.** Copy the deployed BPEL project into the 11g system.
- **14.** Edit the bpel.xml file for the WSDL location in the 10.1.3.4 project folder (Project_Name\bpel):

```
<protection states and states and
```

Where the IP address and port number refer to the 10.1.3.4 system where the WSDL was generated.

- **15.** Ensure that the 10.1.3.4 server is up and running.
- **16.** Start Oracle JDeveloper 11g and migrate the 10.1.3.4 BPEL project.
- **17.** Once the project is migrated, a successful message is received in Oracle JDeveloper.
- **18.** Expand the migrated project and double-click the composite.xml file to ensure that the project opens without any errors.
- **19.** Double-click the J2CA properties file under the migrated project in Oracle JDeveloper and remove the following line:

```
<record-converter
className="com.iwaysoftware.afjca15.oracle.InboundXMLRecordConverterImpl"/>
```

```
<adapter-config name="jde90_schema_ori" adapter="iWay ERP Adapter"
wsdlLocation="jde9_salesorder_tcp_Feb27.wsdl"
xmlns="http://platform.integration.oracle/blocks/adapter/fw/metadata">
<resource-adapter
className="com.iwaysoftware.afjca15.IWAFOracleResourceAdapter"/>
<record-converter
className="com.iwaysoftware.afjca15.oracle.InboundXMLRecordConverterImpl"/>
```

- **20.** Save and then deploy the migrated BPEL project.
- **21.** Ensure that there are no error or warning messages during the deployment process.
- **22.** Trigger the event messages from the J.D. Edwards OneWorld system and ensure that successful instances are received in the Oracle Enterprise Manager console.

Glossary

adapter

Provides universal connectivity by enabling an electronic interface to be accommodated (without loss of function) to another electronic interface.

agent

Supports service protocols in listeners and documents.

business service

Also known as a Web service. A Web service is a self-contained, modularized function that can be published and accessed across a network using open standards. It is the implementation of an interface by a component and is an executable entity.

channel

Represents configured connections to particular instances of back-end systems. A channel binds one or more event ports to a particular listener managed by an adapter.

listener

A component that accepts requests from client applications.

port

Associates a particular business object exposed by the adapter with a particular disposition. A disposition is a URL that defines the protocol and location of the event data. The port defines the end point of the event consumption.

Index

G

general upgrade guidelines, 1-1

I

inbound ESB and BPEL process post-upgrade requirement, 1-23 inbound process upgrading, 1-15

0

Oracle Application Adapter for J.D. Edwards OneWorld BPEL J2CA inbound process upgrading, 5-6 BPEL J2CA outbound process upgrading, 5-6 ESB J2CA inbound process upgrading, 5-1 ESB J2CA outbound process upgrading, 5-1 Oracle Application Adapter for PeopleSoft BPEL J2CA inbound process upgrading, 4-6 BPEL J2CA outbound process upgrading, 4-4 ESB J2CA inbound process upgrading, 4-1 ESB J2CA outbound process upgrading, 4-1 Oracle Application Adapter for SAP R/3 BPEL J2CA inbound process upgrading, 2-7 BPEL J2CA outbound process upgrading, 2-5 ESB J2CA inbound process upgrading, 2-3 ESB J2CA outbound process upgrading, 2-1 Oracle Application Adapter for Siebel BPEL J2CA inbound process upgrading, 3-9 BPEL J2CA outbound process upgrading, 3-9

ESB J2CA inbound process upgrading, 3-1 ESB J2CA outbound process upgrading, 3-1 Oracle upgrade patches, 1-23 Oracle's Unified Method (OUM), vi outbound ESB and BPEL process post-upgrade requirement, 1-14 outbound process upgrading, 1-1

U

upgrade considerations, 1-23 upgrade guidelines general, 1-1 Oracle Application Adapter for J.D. Edwards OneWorld, 5-1 Oracle Application Adapter for PeopleSoft, 4-1 Oracle Application Adapter for SAP R/3, 2-1 Oracle Application Adapter for Siebel, 3-1 upgrade patches, 1-23