Oracle<sup>®</sup> Retail Financial Integration for Oracle Retail Merchandise Operations Management and Oracle E-Business Suite or PeopleSoft Financials Installation Guide Release 14.0.3 E65422-01

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Oracle® Retail Financial Integration for Oracle Retail Merchandise Operations Management and Oracle E-Business Suite or PeopleSoft Financials Installation Guide, Release 14.0.3

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## **Send Us Your Comments**

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Oracle welcomes customers' comments and suggestions on the quality and usefulness of this document.

Your feedback is important, and helps us to best meet your needs as a user of our products. For example:

- Are the implementation steps correct and complete?
- Did you understand the context of the procedures?
- Did you find any errors in the information?
- Does the structure of the information help you with your tasks?
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If you find any errors or have any other suggestions for improvement, then please tell us your name, the name of the company who has licensed our products, the title and part number of the documentation and the chapter, section, and page number (if available).

**Note:** Before sending us your comments, you might like to check that you have the latest version of the document and if any concerns are already addressed. To do this, access the Online Documentation available on the Oracle Technology Network Web site. It contains the most current Documentation Library plus all documents revised or released recently.

Send your comments to us using the electronic mail address: retail-doc\_us@oracle.com Please give your name, address, electronic mail address, and telephone number (optional).

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If you require training or instruction in using Oracle software, then please contact your Oracle local office and inquire about our Oracle University offerings. A list of Oracle offices is available on our Web site at www.oracle.com.

### Preface

Oracle Retail Installation Guides contain the requirements and procedures that are necessary for the retailer to install Oracle Retail products.

#### **Audience**

This Installation Guide is written for the following audiences:

- Database administrators (DBA)
- System analysts and designers
- Integrators and implementation staff

#### **Documentation Accessibility**

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#### **Related Documents**

For more information, see the following documents:

- . Oracle Retail Merchandising System Release Notes
- Oracle Retail Merchandising System Installation Guide
- Oracle Retail Merchandising System Operations Guide
- Oracle Retail Merchandising System Data Model .
- . Oracle Retail Invoice Matching Release Notes
- Oracle Retail Invoice Matching Installation Guide
- Oracle Retail Financial Integration for Oracle Retail Merchandise Operations Management • and Oracle E-Business Suite or PeopleSoft Financials Release Notes

### **Customer Support**

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When contacting Customer Support, please provide the following:

- Product version and program/module name
- Functional and technical description of the problem (include business impact)
- Detailed step-by-step instructions to re-create
- Exact error message received
- Screen shots of each step you take

#### **Review Patch Documentation**

When you install the application for the first time, you install either a base release (for example, 14.0) or a later patch release (for example, 14.0.3). If you are installing the base release or additional patch releases, read the documentation for all releases that have occurred since the base release before you begin installation. Documentation for patch releases can contain critical information related to the base release, as well as information about code changes since the base release.

#### Improved Process for Oracle Retail Documentation Corrections

To more quickly address critical corrections to Oracle Retail documentation content, Oracle Retail documentation may be republished whenever a critical correction is needed. For critical corrections, the republication of an Oracle Retail document may at times **not** be attached to a numbered software release; instead, the Oracle Retail document will simply be replaced on the Oracle Technology Network Web site, or, in the case of Data Models, to the applicable My Oracle Support Documentation container where they reside.

This process will prevent delays in making critical corrections available to customers. For the customer, it means that before you begin installation, you must verify that you have the most recent version of the Oracle Retail documentation set. Oracle Retail documentation is available on the Oracle Technology Network at the following URL:

http://www.oracle.com/technetwork/documentation/oracle-retail-100266.html

An updated version of the applicable Oracle Retail document is indicated by Oracle part number, as well as print date (month and year). An updated version uses the same part number, with a higher-numbered suffix. For example, part number E123456-02 is an updated version of a document with part number E123456-01.

If a more recent version of a document is available, that version supersedes all previous versions.

#### **Oracle Retail Documentation on the Oracle Technology Network**

Oracle Retail product documentation is available on the following web site: http://www.oracle.com/technetwork/documentation/oracle-retail-100266.html (Data Model documents are not available through Oracle Technology Network. You can obtain them through My Oracle Support.)

### Conventions

**Navigate:** This is a navigate statement. It tells you how to get to the start of the procedure and ends with a screen shot of the starting point and the statement "the Window Name window opens."

This is a code sample

It is used to display examples of code

This chapter explains the tasks required prior to installation.

#### **Requesting Infrastructure Software**

If you are unable to find the necessary version of the required Oracle infrastructure software (database server, application server, WebLogic, etc.) on the Oracle Software Delivery Cloud, you should file a non-technical 'Contact Us' Service Request (SR) and request access to the media. For instructions on filing a non-technical SR, see My Oracle Support Note 1071023.1 – *Requesting Physical Shipment or Download URL for Software Media*.

#### **Check Supported Database Server Requirements**

Supported on	Versions Supported
Database Server OS	OS certified with Oracle Database 11gR2 and 12cR1 Enterprise Edition. Options are:
	<ul> <li>Oracle Linux 6 for x86-64 (Actual hardware or Oracle virtual machine)</li> </ul>
	<ul> <li>Red Hat Enterprise Linux 6 for x86-64 (Actual hardware or Oracle virtual machine)</li> </ul>
	<ul> <li>AIX 7.1 (Actual hardware or LPARs)</li> </ul>
	<ul> <li>Solaris 11 SPARC (Actual hardware or logical domains)</li> </ul>
	<ul> <li>HP-UX 11.31 Integrity (Actual hardware, HPVM, or vPars)</li> </ul>
Database Server 11gR2	Oracle Database Enterprise Edition 11gR2 (11.2.0.4) with the following specifications:
	Components:
	Oracle Partitioning
	Examples CD
	Oneoff Patches:
	<ul> <li>18465025: MERGE REQUEST ON TOP OF 11.2.0.4.0 FOR BUGS 18016963 18302329.</li> </ul>
	Other components:
	<ul> <li>X-Windows interface</li> </ul>
	Perl interpreter 5.0 or higher

General requirements for a database server running Oracle Retail Financial Integration Pack include:

Supported on	Versions Supported
Database Server 12cR1	Oracle Database Enterprise Edition 12cR1 (12.1.0.2) with the following specifications:
	Components:
	Oracle Partitioning
	<ul> <li>Examples CD</li> </ul>
	Oneoffs:
	<ul> <li>Patch 19623450: MISSING JAVA CLASSES AFTER UPGRADE TO JDK 7</li> </ul>
	Other components:
	<ul> <li>Perl interpreter 5.0 or later</li> </ul>
	<ul> <li>X-Windows interface</li> </ul>
	• JDK 1.7

**Note:** On 12c, by default JDK is at 1.6. After installing the rdbms binary, apply patch 19623450. Then follow the instructions on Oracle Database Java Developer's Guide 12c Release 1 to upgrade JDK to 1.7. The document is available at:

http://docs.oracle.com/database/121/JJDEV/chone.htm#JJ DEV01000

#### **Check Supported ODI Requirements**

General requirements for an Oracle Data Integrator running Oracle Retail Financial Integration Pack include:

Supported on	Versions Supported
Data Integrator Server OS	OS supported with Oracle Database 11gR2 Enterprise Edition. Options are:
	<ul> <li>Oracle Linux 6 for x86-64 (Actual hardware or Oracle virtual machine).</li> </ul>
	<ul> <li>Red Hat Enterprise Linux 6 for x86-64 (Actual hardware or Oracle virtual machine).</li> </ul>
	<ul> <li>AIX 7.1 (Actual hardware or LPARs)</li> </ul>
	<ul> <li>Solaris 11 SPARC (Actual hardware or logical domains)</li> </ul>
	<ul> <li>HP-UX 11.31 Integrity (Actual hardware, HPVM, or vPars)</li> </ul>
Data Integrator 11gR1	Oracle Data Integrator Release 11gR1 (11.1.1.7) with the following specifications:
	Oracle Fusion Middleware 11g Release 1 (11.1.1.7)
	Components:
	<ul> <li>Oracle Data Integrator 11g Release 1 (11.1.1.7)</li> </ul>

### **Check Supported Application Server Requirements**

General requirements for an application server capable of running the Oracle Retail Financial Integration application include the following:

Supported on	Versions Supported
Application Server OS	OS supported with Oracle Fusion Middleware 11g Release 1 (11.1.1.7). Options are:
	<ul> <li>Oracle Linux 6 for x86-64 (Actual hardware or Oracle virtual machine).</li> </ul>
	<ul> <li>Red Hat Enterprise Linux 6 for x86-64 (Actual hardware or Oracle virtual machine).</li> </ul>
	<ul> <li>AIX 7.1 (Actual hardware or LPARs)</li> </ul>
	<ul> <li>Solaris 11 SPARC (Actual hardware or logical domains)</li> </ul>
	<ul> <li>HP-UX 11.31 Integrity (Actual hardware, HPVM, or vPars)</li> </ul>
Application Server	Oracle Fusion Middleware 11g Release 1 (11.1.1.7)
	Components:
	<ul> <li>Oracle WebLogic Server 11g Release 1 (10.3.6)</li> </ul>
	<ul> <li>Java: JDK 1.7+ 64 bit</li> </ul>
	<b>IMPORTANT</b> : If there is an existing WebLogic installation on the server, you must upgrade to WebLogic 10.3.6. All middleware components associated with WebLogic server 10.3.3 or 10.3.4 should be upgraded to 11.1.1.7.
	Back up the weblogic.policy file (\$WL_HOME/ server/lib) before upgrading your WebLogic server, because this file could be overwritten. Copy over the weblogic.policy backup file after the WebLogic upgrade is finished and the post patching installation steps are completed.
	<b>Note:</b> The installer can fail because of missing .jar in \$ORACLE_HOME/utils/ccr/lib. This issue occurs only when the application is being installed on the same WebLogic server on which forms based applications are installed. It is valid only for Linux 64-bit.

### **Check Supported Client PC and Web Browser Requirements**

Requirement	Version
Operating system	Windows 7
Display resolution	1024x768 or higher
Processor	2.6GHz or higher
Memory	1GByte or higher
Networking	intranet with at least 10Mbps data rate
Oracle (Sun) Java Runtime Environment	1.7.0+
Browser	Microsoft Internet Explorer 9 or 11 Mozilla Firefox 24.0

#### **Supported Oracle Retail Products**

Requirement	Version
Oracle Retail Merchandising System (RMS)	14.0.3
Oracle Retail Sales Audit (ReSA)	14.0.3
Oracle Retail Invoice Matching (ReIM)	14.0.3
Oracle Retail Integration Bus (RIB)	14.0.3

#### **UNIX User Account Privileges to Install the Software**

A UNIX user account is needed to install the software. The UNIX user that is used to install the software should have write access to the WebLogic server installation files. For example, oretail.

**Note:** Installation steps will fail when trying to modify files under the WebLogic installation, unless the user has write access.

#### **Supported Oracle Applications**

Requirement	Version
Oracle E-Business Suite (Accounts Payable)	Oracle E-Business Suite 12.1.3 integration is supported using the Oracle Financial Operations Control Integration Pack for Oracle Retail Merchandising Suite and Oracle E-Business Suite Financials.
PeopleSoft Financials( General Ledger and Accounts Payables)	Oracle PeopleSoft 9.2 integration is supported using the Oracle Financial Operations Control Integration Pack for Oracle Retail Merchandising Suite and Oracle PeopleSoft Financials.

This guide details the steps needed to perform an installation of ORFI. This will cover the EBS Business Event Subscription setup for currency rate and suppliers if integrating with EBS12.1.3. This will cover the PeopleSoft integration broker service configuration setup for currency rate, suppliers and payterms. Along with the ORFI layer setup and creation of ODI master and work repositories, importing the ODI packages, and scheduling the scenarios.

Before validating integration services, you must ensure that Oracle Retail Merchandising System (RMS), Oracle Retail Invoice Matching (ReIM), and Oracle Retail Sales Audit (RESA) are set up properly to integrate with ORFI. For more information, see the *Oracle Retail Invoice Matching Operations Guide*, and the *Oracle Retail Merchandising System Operations Guide, Volume 3*, for setting up the Oracle Retail applications for Financials integration. Details to validate include verifying that currency rate IGS service is up, RMS supplier and payment terms services are up and running. For AP/GL invoice integrations to work, ensure that proper GL Account validation and Drill forward/backward report URL are properly configured.

The following chapters document the installation process:

- ORFI Database Installation Tasks
- ORFI Application Installation Tasks
- EBS Database Installation Tasks
- EBS Event Subscription Tasks
- PeopleSoft Database Installation Tasks
- ODI Setup Tasks

**Note:** After you have installed your supporting Oracle Retail applications and confirmed that they are functioning, you can begin the installation of ORFI.

# **ORFI** Database Installation Tasks

### **Expand the ORFI Installer Distribution**

- 1. Log in to the UNIX server as a user who has sufficient access to run sqlplus from the Oracle Database installation.
- **2.** Create a new staging directory for the ORFI installer distribution (RetailFinancialIntegrationPak14.0.3ForRfi14.0.3\_eng\_ga.zip). There should be a minimum of 50 MB disk space available for the application and database schema installation files. This location is referred to as INSTALL\_DIR for the remainder of this chapter.
- **3.** Copy RetailFinancialIntegrationPak14.0.3ForRfi14.0.3\_eng\_ga.zip to <INSTALL\_DIR> and extract its contents.

#### **Database Schema Topology**

This topology diagram shows how different schemas are integrated with each other. There are two diagrams one with EBS as integrating financial system and other Oracle PeopleSoft as integrating financial system





#### **Create Tablespaces**

Before you run the ORFI database schema installer, make sure that the RFI\_DATA tablespace has been created in the database.

Below is a sample tablespace creation statement for the RFI\_DATA tablespace. Oracle Retail recommends the use of locally managed tablespaces with automatic extent and segment space management. These tablespaces are not sized for a production environment.

```
CREATE TABLESPACE RFI_DATA DATAFILE

'<datafile_path>/rfi_data01.dbf' SIZE 500M

AUTOEXTEND ON NEXT 100M MAXSIZE 2000M

EXTENT MANAGEMENT LOCAL

SEGMENT SPACE MANAGEMENT AUTO

;
```

#### Create the ORFI Database User

The user in the database who will own the ORFI tables must be created prior to running the ORFI database schema installer. A create\_user.sql script has been provided that can be used for this:

\$INSTALL\_DIR/retail-financial-integration-solution/service-basedintegration/setup-data/ddl/create\_user.sql

After installation is completed, a detailed database user creation log file is created:

\$INSTALL\_DIR/retail-financial-integration-solution/service-based-integration/setup-data/ddl/create\_user.log

The script takes three arguments on the command line in sqlplus: username, password and ORFI tablespace name.

 Example:
 SQL> @create\_user.sql <RFI Schema> <RFI</th>

 Schema Password> <RFI Tablespace Name>

Review this script and run it as a user with adequate permissions, such as SYSTEM.

#### **Run the ORFI Database Schema Installer**

This installer installs the ORFI database schema, compiles ORFI objects, and inserts ORFI data.

- 1. Set the following environment variables:
  - Set the ORACLE\_HOME to point to an installation that contains sqlplus. It is recommended that this be the ORACLE\_HOME of the ORFI database.
  - Set the PATH to: \$ORACLE\_HOME/bin:\$PATH
  - Set the ORACLE\_SID to the name of your database
  - Set the NLS\_LANG for proper locale and character encoding

#### Example: NLS\_LANG=AMERICAN\_AMERICA.AL32UTF8

**2.** If you are using an X server such as Exceed, set the DISPLAY environment variable so that you can run the installer in GUI mode (recommended). If you are not using an X server, or the GUI is too slow over your network, unset DISPLAY for text mode.

 Based on whether integrating Oracle Financials application is EBS or PeopleSoft, run one of the initial setup scripts available in \$INSTALL\_DIR/retail-financialintegration-solution/service-based-integration/bin/. After installation is completed, a detailed installation log file is created: \$INSTALL\_DIR/retail-financial-integrationsolution/service-based-integration/bin/<timestamp>.log.

```
Example:-
For EBS integration, run the prompt$ sh ebs-load-initial-
setup-data-into-integration-schema.sh
OR
For PeopleSoft integration, run the prompt$ sh psft-load-
initial-setup-data-into-integration-schema.sh
```

The installer prompts for the following details:

- Enter the ORFI database schema details Enter ORFI Userid/Passwd:
- Enter the ORFI database server name Enter Database Server Name or IP address:
- Enter the ORFI database server port Enter Database Port Number:
- Enter the ORFI database server SID Enter Database SID:

#### Verification

Log in to the ORFI database schema in the database and query "SELECT \* FROM TAB WHERE TNAME LIKE 'RFI%'". This query should list the following tables:

- RFI\_CURR\_RATE\_STAGE
- RFI\_ODI\_LOGS
- RFI\_SUPP\_CONTACTS\_STAGE
- RFI\_SUPP\_SITES\_STAGE
- RFI\_SUPP\_STAGE
- RFI\_XREF\_DVM

If integration with PeopleSoft as Oracle Financials application, then along with above mentioned tables the below two tables should also be listed:-

- RFI\_TERMS\_HEAD
- RFI\_TERMS\_DETAIL

# **ORFI Application Installation Tasks**

#### Prerequisite

Before proceeding you must install Oracle WebLogic Server 11g 10.3.6 and any patches listed related to Weblogic Server 11g 10.3.6. Create a WebLogic domain called rfi\_domain. This WebLogic domain must be of a base domain type. Create a managed server (for example, rfi-server) inside this rfi\_domain. The ORFI application will be installed into the WebLogic managed server (for example, rfi-server). It is assumed that the Oracle database has already been configured and loaded with the appropriate ORFI, RMS, EBS, and ODI (Master, Work, and Staging Area) schema details for your installation. This server is referred to as RFI\_SERVER in this document.

You need to execute the steps in the Expand the ORFI Installer Distribution section if the UNIX environments for the ORFI database and WebLogic Server are different.

1. Update \$WEBLOGIC\_HOME/server/lib/weblogic.policy file with the following:

**Note:** If copying the following text from this guide to UNIX, ensure that it is properly formatted in UNIX. Each line entry beginning with "permission" must terminate on the same line with a semicolon.

**Note:** <WEBLOGIC\_ HOME> in the below example is the full path to where WebLogic has been installed. "rfi\_server" is the managed server created for the App and "retail-financial-integration-ear-14.0.3.ear" correlates to the value entered for the application deployment name/context root of the application during installation. See the example. There should not be a space after file: in the following:

File:<WEBLOGIC\_HOME>.

grant codeBase

```
"file:<WEBLOGIC_HOME>/user_projects/domains/rfi_domain/servers/rfi-
server/tmp/_WL_user/ retail-financial-integration-ear-14.0.3.ear/-"
{permission java.security.AllPermission;permission
oracle.security.jps.service.credstore.CredentialAccessPermission
"credstoressp.credstore", "read,write,update,delete";permission
oracle.security.jps.service.credstore.CredentialAccessPermission
"credstoressp.credstore.", "read,write,update,delete";}
```

**Example:** An example of the full entry that might be entered is:

grant codeBase

"file:/u00/rfil/Oracle/Middleware/user\_projects/domains/rfi\_domain/servers
/rfi-server/tmp/\_WL\_user/ retail-financial-integration-ear-14.0.3.ear/-"
{permission java.security.AllPermission;permission
oracle.security.jps.service.credstore.CredentialAccessPermission
"credstoressp.credstore", "read,write,update,delete";permission
oracle.security.jps.service.credstore.CredentialAccessPermission
"credstoressp.credstore.\*", "read,write,update,delete";};

**Note:** The path "tmp/\_WL\_user/retail-financial-integrationear-14.0.3.ear" will not be available before the deployment.

**Note:** The domain must be bounced for the above change to take affect

**2.** Edit \$WL\_HOME/common/nodemanager/nodemanager.properties file to change the StartScriptEnabled property to true and make sure the StartScriptName property is set to startWebLogic.sh. Below is a sample from the file:

StartScriptName=startWebLogic.sh StartScriptEnabled=true

> **Note:** The nodemanager.properties file is created after NodeManager is started for the first time. It will not be available before that point. The NodeManager must be restarted after making changes to the nodemanager.properties file.

#### **Expand the ORFI Installer Distribution**

- 1. Log in to the UNIX server where the WebLogic server is installed as a user who has sufficient access to deploy an application from the Oracle WebLogic installation.
- 2. Create a new staging directory for the ORFI installer distribution (RetailFinancialIntegrationPak14.0.3ForRfi14.0.3\_eng\_ga.zip). There should be a minimum of 50 MB disk space available for the application and database schema installation files. This location is referred to as INSTALL\_DIR for the remainder of this chapter.
- **3.** Copy RetailFinancialIntegrationPak14.0.3ForRfi14.0.3\_eng\_ga.zip to <INSTALL\_DIR> and extract its contents.

# **Note:** Before proceeding with below installation, read through the below instructions and ensure follow the same during installation:-

1) It is highly recommended that customer first try to get it deployed with security policy "unsecure", do some mock test and only when everything is working, reconfigure to use "policyA".

2) If "policyA" is specified then SSL port must be enabled and proper https protocol has to be specified in the correct URLs. If it is not done WebLogic deployment fails with cryptic errors.

3) RFI ear hosted services providers can be configured only with policyA(no policyB) as PLSQL applications cannot call services secured with policyB. But RFI can call services secured with policyB

#### Configure the Deployment Info for JSON File

The rfi-deployment-env-info.json file serves multiple purposes. It is used by the installation process and it also acts as a single master configuration file that describes the entire topology of the integration system. The values in this file must be accurate for the system to work properly. All values in the file are not user editable; the installation process needs these fixed names to match what the compiled runtime code already expects. Some examples of these fixed values that must not be changed are constants like "GET\_FROM\_WALLET"; jndi name like "jdbc/RfiDataSource" and so on.

You need to configure the following list of deployment information to run the ORFI deployment script. This file can be found under \$INSTALL\_DIR/retail-financial-integration-solution/service-based-integration/conf/.

**Note:** Do not change "Alias" Names or any other values other than the details given below.

**Note:** You should remove the symbols "<" and ">" while entering the actual/valid values for below configurations.

Update the following details from RfiDeploymentEnvInfo  $\rightarrow$  integratingToEbsOrPsft, mentioned based on whether integration is with EBS OR PeopleSoft

- If integration is with EBS, the value should be integratingToEbsOrPsft":"EBS" OR
- If integration is with PeopleSoft, the value should be integratingToEbsOrPsft":"PSFT"

**Note:** Default configuration would be integratingToEbsOrPsft":"PSFT"

Update the following details from RfiDeploymentEnvInfo  $\rightarrow$  DataSourceDef configuration:

Based on whether the integration is with EBS or PeopleSoft enter the below mentioned details against corresponding datasource names.

- In EbsDataSource, enter the EBS database connection details: "jdbcUrl":"jdbc:oracle:thin:@//<Server Name>:<Port>/<SID>" OR In PsftDataSource , enter the PeopleSoft database connection details
- **2.** In RmsDataSource, enter the RMS database connection details:
  - "jdbcUrl":"jdbc:oracle:thin:@//<Server Name>:<Port>/<SID>"
- 3. In RfiDataSource, enter the ORFI database connection details: "jdbcUrl":"jdbc:oracle:thin:@//<Server Name>:<Port>/<SID>"
- **4.** In OdiMasterDataSource, enter the ODI Master repository database connection details:

"jdbcUrl":"jdbc:oracle:thin:@//<Server Name>:<Port>/<SID>"

- 5. In OdiWorkDataSource, enter the ODI Work repository database connection details: "jdbcUrl":"jdbc:oracle:thin:@//<Server Name>:<Port>/<SID>"
- 6. In OdiStagingAreaDataSource, enter the ODI Staging database connection details: "jdbcUrl":"jdbc:oracle:thin:@//<Server Name>:<Port>/<SID>"

**Note:** It is recommended to have the ODI Staging Schema (RFI\_ODI\_TEMP) in the EBS or PeopleSoft database.

- Update the following details from RfiDeploymentEnvInfo → MiddlewareServerDef
   → RfiAppServer configuration:
  - Enter the WebLogic domain name: "weblogicDomainName":"<RFI Domain Name>",
  - Enter the RFI Domain Home:
     "weblogicDomainHome":"<RFI Domain Name>",
  - Enter the WebLogic admin server protocol: "weblogicDomainAdminServerProtocol":"t3",
  - Enter the WebLogic admin server host name: "weblogicDomainAdminServerHost":"<Server Host Name>"
  - Enter the WebLogic server port:
     "weblogicDomainAdminServerPort":"<port>"
  - Enter the WebLogic Managed Server Name:
     "weblogicDomainTargetManagedServerName":"<Server Name>"
    - Enter the End point URL for GlAccount Service: "glAccountValidationServiceEndPointUrl":"http://myhostname:7001/GlAccountV alidationBean/GlAccountValidationService?WSDL", If integration is with peopleSoft enter the End point URL for below mentioned services. If integration is with EBS please skip 1 - 4 service configuration steps
      - a. Enter the End point URL for drillBackForward Service: drillBackForwardUrlServiceEndPointUrl":"http://myhostname:7001/DrillBa ckForwardUrlBean/DrillBackForwardUrlService?WSDL",
    - b. Enter the End point URL for Supplier Service: supplierBusinessEventHandlerServiceEndPointUrl":"http://myhostname:70 01/SupplierBusinessEventHandlerServiceBean/SupplierBusinessEventHand lerService?WSDL",
    - **c.** Enter the End point URL for Payterms Service: payTermBusinessEventHandlerServiceEndPointUrl":"http://myhostname:7 001/PayTermBusinessEventHandlerServiceBean/PayTermBusinessEventHa ndlerService?WSDL",
    - **d.** Enter the End point URL for Currency Rate Service: currencyRateBusinessEventHandlerServiceEndPointUrl":"http://myhostna me:7001/CurrencyRateBusinessEventHandlerServiceBean/CurrencyRateBus inessEventHandlerService?WSDL",
  - Enter the ORFI UI URL host name and port details: "rfiAdminUiUrl": "http://<host>:<port>/retail-financial-integration-web",
  - Enter the SMTP server host: "smtpServerHost":"<SMTP Server Host>"
  - Enter the SMTP server port: "smtpServerPort":"<SMTP Server Port>"
  - Enter the SMTP server type (for example, SSL or TSL): "smtpServerListenerType":"<SMTP Server Type>"
  - Enter "true" if authentication required for SMTP server, else "false": "smtpAuthenticationRequired":"<true/false>"

- Enter the From Email Address: "smtpMailFromAddress":"<From Address>"
- Enter the Comma (,) separated To Address list: "smtpMailToAddressList":"<To Address Email Id's>"
   For example:

"smtpMailToAddressList":"<ToAddr1@oracle.com,ToAddr2@oracle.com>"

 Update an Integrated Gateway Services detail for Currency Rate service from RfiDeploymentEnvInfo → MiddlewareServerDef → IgsAppServer configuration.

Enter the IGS Currency Rate End point URL:

"currencyRateServiceEndPointUrl":"<Currency Rate URL>"

**9.** Update RfiDeploymentEnvInfo → MiddlewareServerDef → RmsAppServer details for Supplier Service.

Enter the Supplier service End point URL:

"supplierServiceEndPointUrl":"<Supplier URL>"

- If integration is with peopleSoft enter the End point URL for below mentioned services. If integration is with EBS please skip 1 2 service configuraiton steps
- Enter the report locator service End point URL: reportLocatorServiceEndPointUrl": "http://rmshostname:19203/ReportLocatorB ean/ReportLocatorService?WSDL",
- Enter the payterm service End point URL: payTermServiceEndPointUrl":"http://rmshostname:19203/PayTermBean/PayT ermService?WSDL",
- **10.** If integrating with EBS, Update RfiDeploymentEnvInfo → MiddlewareServerDef → EbsAppServer details for Supplier Service:

```
Enter the EBS server $JAVA_TOP folder path
```

"ebsInstanceJavaTopLocation":"<JAVA\_TOP>"

For example:

"ebsInstanceJavaTopLocation":" /u01/applmgr/apps/apps\_st/comn/java/classes"

**Note:** If EBS is installed on Oracle Application Server substitute the corresponding OAS/oc4j information instead of WebLogic server information.

- **11.** If integrating with PeopleSoft, Update RfiDeploymentEnvInfo → MiddlewareServerDef → PsftAppServer
  - Enter the WebLogic domain name: "weblogicDomainName":"<PSFT Domain Name>",
  - Enter the WebLogic domain home:
     "weblogicDomainHome":"/path/<PSFT Domain Name>",
  - Enter the WebLogic domain admin server url:
     "weblogicDomainAdminServerUrl":" t3://psfthostname:7777",
  - Enter the WebLogic domain admin server useralias
     "weblogicDomainAdminServerUserAlias": "psftAppServerAdminServerUserAlias"
  - Enter the PeopleSoft Application URL:
     "psftApplicationUrl":"http://psfthostname:port/psp",
  - Enter the Combochart Field service End point URL: "comboChartFieldServiceEndPointUrl":"http://psfthostname:7777/PSIGW/People SoftServiceListeningConnector/COMBO\_CF\_EDIT\_REQUEST.1.wsdl",

- 12. Update the following details from RfiDeploymentEnvInfo → MiddlewareServerDef
   → RfiBulkServer configuration:
  - Enter the odi host name: "odiHost":"odihostname",
  - Enter the odi url : odiUrl:"/path/odi\_is\_installed",
  - Enter the odi Agent host : "odiAgentHost":"odihostname",
  - Enter the odi Agent port : odiAgentPort":"20910"
- 13. The supported configuration is for Unsecured and Policy A configuration.
- **14.** Update the application security configuration for your environment. ORFI application is certified with Policy-A (UsernameToken over HTTPS). Add one of the key words policyA or Unsecured to service settings based on the nature of security selected at the service level.

#### Example:

For Currency Rate Service, Policy A (HTTPS) setting :

Update the JSON file with policyName to policyA:

"currencyRateServiceEndPointSecurityPolicyName": "policyA".

For Supplier Service, Policy A (HTTPS) setting :

Update the JSON file with policy Name to policyA:

"supplierServiceEndPointSecurityPolicyName":"policyA".

For Currency Rate Service, unsecured setting:

Update the JSON file with policyName to spaces:

"currencyRateServiceEndPointSecurityPolicyName":" Unsecured".

For Supplier Service, Unsecured setting:

Update the JSON file with policyName to spaces:

" supplierServiceEndPointSecurityPolicyName":" unsecure".

#### Service Consumer Security

ORFI can be secured with policy-A (UsernameToken over HTTPS), if the service hosted by the ORFI application is secured, then the consumer of the service (Example : RMS) must be configured such that it can invoke the secured service. For more information on Service consumer configuration for Policy A, see the Oracle Retail Services Backbone Security Guide.

#### Generate the EBS Component

**Note:** The steps mentioned in this section should be performed only if you are integrating with EBS as Oracle Financials applications. If not, Please skip this section and continue with the "Deploy the ORFI Application".

If EBS is the Oracle Financials application: You need to generate an EBS component jar file (ebs-financial-common-14.0.0.jar). This should be placed in the EBS application environment to communicate the supplier and currency rate events to the Oracle Retail Merchandise system.

**Note:** Ensure JAVA\_HOME and WL\_HOME variables are set in the environment. WL\_HOME points to the folder location till <WebLogic Installed folder>/wlserver\_10.3. Aliases names and Admin Group name are not editable.

1. Run the rfi-deployer.sh (available in \$INSTALL\_DIR/retail-financial-integrationsolution/service-based-integration/bin/) script to configure and save the AppServer and DB credentials to ORFI wallet.

The script takes two arguments on the command line: -setup-credentials and -prepare-ebs-side-component.

**Example:** prompt\$ sh rfi-deployer.sh -setup-credentials -prepare-ebs-side-component

- **2.** The installer prompts for the following details:
  - WebLogic login credentials
    Credential required for weblogicDomainAdminServerHost (<HOST\_NAME>)
    weblogicDomainAdminServerPort (<PORT>):
    Enter username for alias (rfiAppServerAdminServerUserAlias):<Enter WebLogic Admin server Login name>
    Enter Password: <Enter WebLogic Admin server Login password>
    OBEL Admin Creater Login Creater tiple (OBEL Admin LU)

ORFI Admin Group login Credentials (ORFI Admin UI) Credential required for rfiAdminUiUrl (<Entered value in JSON file>): Enter username for alias (rfiAdminUiUserAlias):<Enter the login name for ORFI Admin>

Enter Password: <Enter ORFI Admin Login password>

ORFI Database Schema details

Credential required for jdbcUrl (<Entered value in JSON file>):

For Currency Rate Service, Policy A setting: Installer will prompt for AdminService username, Adminservice password.

- Email Details From Email Address and password
- EBS Schema details

Enter username for alias (rfiDataSourceUserAlias):<Enter the ORFI Schema user name>

Enter Password: <Enter ORFI Schema password>

Credential required for jdbcUrl(<Entered value in JSON file>):

Enter username for alias (ebsDataSourceUserAlias):apps

Enter Password: <Enter EBS APPS Schema password>

Credential required for email address (<Entered value in JSON file>):

Verify email by retyping above email address (smtpMailFromAddressAlias): <Enter From Email Address>

Enter Password: < Enter Password for the above From Email Address>

Secured Service details:

Pre-requisites - Security admin user has been configured, User name and password has been captured. If not, follow these instructions provided in the *Oracle Retail Integration Bus Security Guide*.

**Note:** For Policy A Security Admin User name and Password should be provided.

The installer will prompt for service username, service password if policyA setting is configured in the JSON file. For Unsecured settings, the following steps will be skipped.

The examples below contain a combination of service and policy settings:

**Example**: Credential required for Currency Rate service for Policy A:

currencyRateServiceUserAlias(http://samplehost:21977/igs -CurRatePublishing-AppServiceDecorator/ProxyService/CurRatePublishingAp pServiceProxy?wsdl):

Enter username for alias (currencyRateServiceEndPointUserAlias): <adminusername>

Enter Password:<adminuserpasswordserviceuserpassword>

• For Supplier Service, Policy A setting: Installer will prompt for service username and password, enter the username and password.

**Example**: Credential required for Supplier service for Policy A:

supplierServiceEndPointUserAlias(http://samplehost:21999
/SupplierBean/SupplierService?WSDL):

Enter username for alias (supplierServiceEndPointUserAlias): <adminusername>

Enter Password:<adminuserpassword>

#### Verify that the EBS jar has been Created

The generated components can be verified from the following target folders:

1. If integrating with EBS, A jar file "ebs-financial-common-14.0.3.jar" should be available in folder \$INSTALL\_DIR/retail-financial-integration-solution/service-based-integration/target/ebs-side/rfi/rfi-ebs-event-handler/.

**Note:** The "rfi" folder in \$INSTALL\_DIR/retail-financialintegration-solution/service-based-integration/target/ebsside/ should be copied to a staging folder in the EBS server which will be referred as EBS\_COMP\_DIR in EBS UNIX environment.

#### **Deploy the ORFI Application for EBS**

**Note:** The steps mentioned in this section should be performed only if you are integrating with EBS as Oracle Financials applications. If not, Please skip this section and continue with the "Deploy the ORFI Application for PeopleSoft".

Before proceeding, ensure that steps mentioned under section "Generate the EBS component" is executed successfully.

**Note:** Ensure JAVA\_HOME and WL\_HOME variables are set in the environment. WL\_HOME points to folder location till <WebLogic Installed folder>/wlserver\_10.3

1. Run the rfi-deployer.sh (available in \$INSTALL\_DIR/retail-financial-integrationsolution/service-based-integration/bin/) script to deploy the ORFI application to the WebLogic server. This script considers all the configuration values defined in previous processes.

The script takes two arguments on the command line: -use-existing-credentials and -deploy-rfi-app.

**Example:** prompt\$ sh rfi-deployer.sh -use-existing-credentials -deploy-rfi-app

2. After successful deployment of the ORFI application, restart the Weblogic server.

#### **Deploy the ORFI Application for PeopleSoft**

**Note:** The steps mentioned in this section should be performed only if you are integrating with PeopleSoft as Oracle Financials applications. If not, Please skip this section and continue with the "Deploy the ORFI Application for EBS"

**Note:** Ensure JAVA\_HOME and WL\_HOME variables are set in the environment. WL\_HOME points to folder location till <WebLogic Installed folder>/wlserver\_10.3

1. Run the rfi-deployer.sh (available in \$INSTALL\_DIR/retail-financial-integrationsolution/service-based-integration/bin/) script to deploy the ORFI application to the WebLogic server. This script considers all the configuration values defined in previous processes.

The script takes two arguments on the command line: -setup-credentials and -deploy-rfi-app.

**Example:** prompt\$ sh rfi-deployer.sh - setup-credentials - deploy-rfi-app

2. After successful deployment of the ORFI application, restart the Weblogic server.

#### Verification

Log in to the WebLogic console and verify the deployments. The ORFI application ear (retail-financial-integration-ear-14.0.3.ear) should be available.

# **EBS** Database Installation Tasks

#### Prerequisite

It is assumed Oracle database has already been configured and loaded with the appropriate EBS schema details for your installation. Skip the entire section if you are integrating with PeopleSoft

#### **Copy EBS Specific Files**

**Note:** You can skip the next steps and proceed to section "Create Tablespaces" if you can connect to EBS Database from ORFI Server using Sqlplus.

- 1. Log in to the EBS UNIX server as a user who has sufficient access to run sqlplus from the Oracle Database installation for APPS schema.
- **2.** Create the retail-financial-integration-solution/service-based-integration folder in the <INSTALL\_DIR> folder.
- **3.** From the ORFI server, copy <INSTALL\_DIR>/retail-financial-integrationsolution/service-based-integration/setup-data folder to <INSTALL\_DIR>/retailfinancial-integration-solution/service-based-integration folder in EBS server

#### **Create Tablespaces**

Before you run the ODI Staging database user, make sure that the following tablespace has been created in the database: ODI\_STAGE\_DATA. Below is a sample tablespace creation statement for this tablespace. Oracle Retail recommends the use of locally managed tablespaces with automatic extent and segment space management.

**Note:** These tablespaces are not sized for a production environment.

CREATE TABLESPACE ODI\_STAGE\_DATA DATAFILE '<datafile\_path>/odi\_stage\_data01.dbf' SIZE 500M AUTOEXTEND ON NEXT 100M MAXSIZE 2000M EXTENT MANAGEMENT LOCAL SEGMENT SPACE MANAGEMENT AUTO ;

#### Create the ODI Staging Database User

You must create an ODI Staging schema using a create\_user.sql, included with the installer distribution. This will be used to execute the ODI Interface at run time. The create\_user.sql script can be used to create the schema:

\$INSTALL\_DIR/retail-financial-integration-solution/service-based-integration/setupdata/ddl/create\_user.sql

The script takes three arguments on the command line in sqlplus: username, password, and ODI Stage tablespace.

Example:	SQL> @create_user.sql RFI_ODI_TEMP
	<rfi_odi_temp password="" schema=""> <odi stage<="" th=""></odi></rfi_odi_temp>
	Tablespace name>

Please review this script and run it as a user with adequate permissions, such as SYSTEM.

Connect to RFI\_ODI\_TEMP schema as sysdba and grant all privileges to AP schema available on EBS Database. Grant all privileges will be used for CRUD operation in RFI\_ODI\_TEMP tables while running ODI interfaces.

#### **Create Database Link**

You need to create a database link to load initial data for currency rate and suppliers from Oracle E-Business Suite to the Oracle Retail Financial Integration application.

- 1. Log in to the APPS database schema in the EBS database to run create\_dblink.sql script.
- 2. Run the create\_dblink.sql script available in \$INSTALL\_DIR/retail-financialintegration-solution/service-based-integration/setup-data/ddl/from EBS APPS database schema.

The script takes four arguments on the command line: DB link name (EBS\_RFI\_DBLINK), ORFI schema name, ORFI schema password, and ORFI DB URL.

**Example:** SQL> @create\_dblink.sql <EBS\_RFI\_DBLINK> <ORFI Schema> <ORFI Schema Password> <ORFI DB Host:port/SID>

**Note:** This database link will be used to load initial data for Currency Rate and Supplier from EBS to ORFI Staging tables. If DB link name is different from default (EBS\_RFI\_DBLINK), then the user needs to update the DB link name in the SQL scripts which are available in retail-financial-integration-solution/etl-based-integration/ retail-to-ebsfin-etl-flows/setup-data/dml.

#### **Run the EBS Initial Database Setup**

This installer installs the ORFI related objects to the EBS APPS database schema.

**Note:** Ensure, sqlplus is executable with correct ths configuration information to EBS database is set in your path.

 Run the load-initial-setup-data-into-ebsfin-schema.sh script available in \$INSTALL\_DIR/ebs-financial/install/bin/. After installation is completed, a detailed installation log file is created: \$INSTALL\_DIR/ebsfinancial/install/bin//<timestamp>.log.

**Example:** prompt\$ sh load-initial-setup-data-into-ebsfin-schema.sh

sh load-initial-setup-data-into-ebsfin-schema.sh

- **2.** The installer prompts for the following details:
  - Enter the EBS database server SID Enter Database SID.
  - Enter the EBS Schema details –Enter APPS User ID/Password.
  - Enter the EBS database server name Enter Database Server Name or IP address.
  - Enter the EBS database server port Enter Database Port Number.

**Note:** If you get the following error, make sure you have downloaded latest version of the ORFI software from Oracle download site and the is configured.

ERROR: ORA-12154: TNS: could not resolve the connect identifier specified.

#### Verification

Log in to the APPS database schema in the EBS database and verify that the RFI\_GLACCT package and package body are available in the valid status using query: "SELECT \* FROM DBA\_OBJECTS WHERE OBJECT\_TYPE IN ('PACKAGE', 'PACKAGE BODY') AND OBJECT\_NAME='RFI\_GLACCT';".
# **EBS Event Subscription Tasks**

## **EBS Event Subscription Setup**

EBS raises the following oracle.apps.ap.supplier.event business event whenever there is a creation/modification of supplier, supplier sites, and supplier contacts.

- 1. Subscribe to the Supplier business event using Java subscription.
  - **a.** Log in to EBS application using sysadmin.
  - **b.** Navigate to Workflow Administrator Web Applications→Administrator Workflow→Business Events.
  - c. Search for the oracle.apps.ap.supplier.event event and click Go.
  - **d.** Click Subscription.

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A business event is an occurrence in an internet or intranet application or pr you want with each other and reference them as a group in event subscrip	ogram that might be significant to other objects in a system or b cons.	o external agents. An event group	is a type of event composed of	f a set of individual member	events. Event groups let you	associate any events
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orade.apps.ap.suppler.event	Payables Suppler Event	Event	Enabled		1 1	11

- e. Click Create Subscription.
- f. Enter the following details:
  - System Select the System name using the LOV.
  - Source Type Local
  - Event Filter oracle.apps.ap.supplier.event
  - Phase 71 (Any number less than 99)
  - Status Enabled
  - Rule Data Key
  - Action Type Custom
  - On Error Skip to Next
  - Click Next
  - Java Rule Function com.oracle.retail.rfi.ebs.SupplierBES
  - Owner Name Oracle Payables
  - Owner Tag SQLAP

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#### g. Click Apply.

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EBS raises the oracle.apps.gl.CurrencyConversionRates.dailyRate.specify business event whenever there is a creation/modification of Daily Currency Rates.

- 2. Subscribe to the Currency business event using Java subscription.
  - **a.** Log in to EBS application using sysadmin.
  - **b.** Navigate to Workflow Administrator Web Applications→Administrator Workflow→Business Events.
  - **c.** Search for the oracle.apps.gl.CurrencyConversionRates.dailyRate.specify event and click **Go**.
  - d. Click Subscription.

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- e. Click Create Subscription.
- f. Enter the following details:
  - System Select the System name using the LOV.
  - Source Type Local
  - Event Filter oracle.apps.gl.CurrencyConversionRates.dailyRate.specify
  - Phase 70 (Any number less than 99)
  - Status Enabled
  - Rule Data Key
  - Action Type Custom
  - On Error Skip to Next
  - Click Next
  - Java Rule Function com.oracle.retail.rfi.ebs.CurrencyRateBES
  - Owner Name Oracle General Ledger
  - Owner Tag SQLGL

🙊 🏘 🌈 Greate Event Subscription	💁 • 🔝 - 👘 • 🕞 Page
Nome Developer Studio Business Events Status Monitor Notifications Administration	
Events   Subscriptions   Agents   Systems	
Business Events: Events: > Business Events: Events: > Subscriptions: >	
	Cance
Update Event Subscriptions	
An event subscription is a registration indicating that a particular event is significant to a particular system. An event subscription specifies the processing to perform when the triggering event occur * Indicates required field	s.
Subscriber	
* System R12RET.US.ORACLE.COM	
Triggering Event	
* Source Type Local	
* Event Filter oracle.apps.ol. CurrencyConversionRates.del/vRate.specify	
Source Agent	
Execution Condition	
* Phase 80	
Subscription with a phase 1- 99 are run synchronously , 100 and above are deferred.	
* Status Enabled *	
" Rule Data Key M	
Action Type	
The Action Type Costonin The Action Type controls the bahariour of the subscription	
On Error Skip to Next 💌	
	Cancel
Home Developer Studio Business Events Status Monitor Notifications Administration Diagnostics Home Logout Preferences Help	and the second se
within Pana Privacy Statement	Convright (c) 2008, Oracle, A

#### g. Click Apply.

Business Events: Events	te > Businger Fighte - Fighte > Subscriptions > Undete Fight Subscriptions >	
Undate Event Subscription	intion : Custom	
opulito Erone oubourpho		Cancol Pack
		cancej bac <u>k</u>
Action		
The Rule Function controls	trols the behaviour of the subscription. Provide a Java Class name ( <package>.<class>) for Java Rule Function and a PL/SQL sto</class></package>	ored procedure ( <package>.<function>) for PL/SQL Rule Function.</function></package>
Java Rule Function	ction com.oracle.retail.rfi.ebs.CurrencyRateBES	
PL/SQL Rule Function	ction	
Workflow Type	Type	
Workflow Process		
worknow Plocess	Choose a Workflow Type, before choosing the Workflow Process for that Type	
Out Agent	igent 🔄 🔍	
To Agent	igent 🔄 🧧 🔍	
* Priority	iority Normal Y	
Subscription Paramete	leters	
Select Name		Value
No results found.	d.	
Add Another Row		
Enter parameters and their value	r values with no spaces	
Documentation		
* Owner Name	Drade Canaral Ladaer	
Owner Name		
··· Owner Tag	Tag SQLGL	
Description	ition	

- **3.** Verify that Status=ENABLED and the Licensed\_flag=Y for the event and event subscription.
  - SELECT \* FROM wf\_events where name='<Event\_Name>';
  - SELECT \* from wf\_event\_subscriptions where event\_filter\_guid=(SELECT guid FROM wf\_events where name='<Event\_Name>);

## **EBS Event Subscription Install**

- 1. Log in to the EBS UNIX server
- 2. From the ORFI server, copy the <INSTALL\_DIR>/retail-financial-integrationsolution/service-based-integration/target/ebs-side/rfi folder to a staging folder. This folder is referred to as EBS\_COMP\_DIR for the remainder of this document.

Install the Business Event Handler.

3. Log in to EBS UNIX server (telnet session) and run the env file (. ./apps.env).

**Note:** If apps.env file is not available, please check the <Instance\_name>\_<Servername>.env file in folder <APPS INSTALLED FOLDER>/ apps\_st/appl for the values of INST\_TOP, ADMIN\_SCRIPTS\_HOME, APPL\_CONFIG\_HOME. JAVA\_TOP folder is <APPS INSTALLED FOLDER>/apps\_st/comn/java/classes

**Example:** R12RET\_rstnssiovm0050.env file in folder /u01/app/R12RET/apr12ret/applmgr/apps\_st/appl

4. Copy the ebs-side "rfi" folder from \$EBS\_COMP\_DIR to \$JAVA\_TOP

**Note:** The "rfi" folder is generated in the ORFI server \$INSTALL\_DIR/retail-financial-integrationsolution/service-based-integration/target/ebs-side/

- 5. Go to the \$INST\_TOP/appl/admin/ folder cd \$INST\_TOP/appl/admin/
- Edit <INSTANCE\_SERVER>.xml (for example, R12RET\_rstnssiovm0050.xml) file vi <INSTANCE\_SERVER>.xml
- **3.** Add the ebs-financial-common-14.0.3.jar and retail-public-security-api.jar to CLASSPATH and AF\_CLASSPATH variables.
- **4.** Add the retail-public-security-api-14.0.0.jar as the first entry in AF\_CLASSPATH.

```
Note: File locations used in the example are the absolute path and must be replaced to reflect the actual paths.
```

#### For example:

```
<CLASSPATH oa_var="s_adovar_classpath"</pre>
```

osd="unix">/u01/app/R12RET/apr12ret/applmgr/apps/tech\_st/10.1.3/appsu til/jdk/lib/dt.jar:/u01/app/R12RET/apr12ret/applmgr/apps/tech\_st/10.1 .3/appsutil/jdk/lib/tools.jar:/u01/app/R12RET/apr12ret/applmgr/apps/t ech\_st/10.1.3/appsutil/jdk/jre/lib/rt.jar:/u01/app/R12RET/apr12ret/ap plmgr/apps/apps\_st/comn/java/lib/appsborg.zip:/u01/app/R12RET/apr12ret/ap t/applmgr/apps/tech\_st/10.1.2/forms/java:/u01/app/R12RET/apr12ret/app lmgr/apps/tech\_st/10.1.2/forms/java/frmall.jar:/u01/app/R12RET/apr12re t/applmgr/apps/tech\_st/10.1.2/jlib/ewt3.jar:/u01/app/R12RET/apr12ret/app formsweb/WEB-

INF/lib/frmsrv.jar:/u01/app/R12RET/apr12ret/applmgr/apps/apps\_st/comn
/java/classes:/u01/applmgr/apps/apps\_st/comn/java/classes/rfi/retailpublic-security-api/lib/commons-cli-

1.2.jar:/u01/applmgr/apps/apps\_st/comn/java/classes/rfi/retailpublic-security-api/lib/commons-logging-

1.1.1.jar:/u01/applmgr/apps/apps\_st/comn/java/classes/rfi/retailpublic-security-api/lib/jps-api-

11.1.1.jar:/u01/applmgr/apps/apps\_st/comn/java/classes/rfi/retail-public-security-api/lib/jps-internal-

11.1.1.jar:/u01/applmgr/apps/apps\_st/comn/java/classes/rfi/retail-public-security-api/lib/jps-common-

11.1.1.jar:/u01/applmgr/apps/apps\_st/comn/java/classes/rfi/retailpublic-security-api/lib/jps-unsupported-api-

11.1.1.jar:/u01/applmgr/apps/apps\_st/comn/java/classes/rfi/retail-public-security-api/lib/jacc-spi-

11.1.1.jar:/u01/applmgr/apps/apps\_st/comn/java/classes/rfi/retailpublic-securit y-api/lib/jacc-api-

10.1.3.jar:/u01/applmgr/apps/apps\_st/comn/java/classes/rfi/retail-public-security-api/lib/jps-ee-

11.1.1.jar:/u01/applmgr/apps/apps\_st/comn/java/classes/rfi/retail-public-security-api/lib/jps-manifest-

11.1.1.jar:/u01/applmgr/apps/apps\_st/comn/java/classes/rfi/retailpublic-security-api/lib/jps-mbeans-

11.1.1.jar:/u01/applmgr/apps/apps\_st/comn/java/classes/rfi/retailpublic-security-api/lib/jps-upgrade-

11.1.1.jar:/u01/applmgr/apps/apps\_st/comn/java/classes/rfi/retailpublic-security-api/lib/jps-wls-

11.1.1.jar:/u01/applmgr/apps/apps\_st/comn/java/classes/rfi/retailpublic-security-api/lib/identitystore-

11.1.1.jar:/u01/applmgr/apps/apps\_st/comn/java/classes/rfi/retailpublic-security-api/lib/oraclepki-

11.1.1.jar:/u01/applmgr/apps/apps\_st/comn/java/classes/rfi/retail-

public-security-api/lib/osdt\_core-11.1.1.jar:/u01/applmgr/apps/apps\_st/comn/java/classes/rfi/retailpublic-security-api/lib/osdt\_cert-11.1.1.jar:/u01/applmgr/apps/apps\_st/comn/java/classes/rfi/retailpublic-security-api/lib/sjsxp-1.0.2. jar:/u01/applmgr/apps/apps st/comn/java/classes/rfi/retailpublic-security-api/lib/jsr173-1.0.jar:/u01/applmgr/apps/apps\_st/comn/java/classes/rfi/rfi-ebsevent-handler/ebs-financial-common-14.0.01. jar:/u01/applmgr/apps/apps\_st/comn/java/classes/rfi/retailpublic-security-api/lib/retail-public-security-api-14.0.0.jar</CLASSPATH> <AF\_CLASSPATH oa\_var="s\_adovar\_afclasspath" osd="unix/u01/applmgr/apps/apps\_st/comn/java/classes/rfi/retailpublic-security-api/lib/commons-cli-1.2.jar:/u01/applmgr/apps/apps\_st/comn/java/classes/rfi/retailpublic-security-api/lib/commons-logging-1.1.1.jar:/u01/applmgr/apps/apps\_st/comn/java/classes/rfi/retailpublic-security-api/lib/jps-api-11.1.1.jar:/u01/applmgr/apps/apps\_st/comn/java/classes/rfi/retailpublic-security-api/lib/jps-internal-11.1.1.jar:/u01/applmgr/apps/apps\_st/comn/java/classes/rfi/retailpublic-security-api/lib/jps-common-11.1.1. jar:/u01/applmgr/apps/apps st/comn/java/classes/rfi/retailpublic-security-api/lib/jps-unsupported-api-11.1.1.jar:/u01/applmgr/apps/apps\_st/comn/java/classes/rfi/retailpublic-security-api/lib/jacc-spi-11.1.1.jar:/u01/applmgr/apps/apps\_st/comn/java/classes/rfi/retailpublic-security-api/lib/jacc-api-10.1.3.jar:/u01/applmgr/apps/apps\_st/comn/java/classes/rfi/retailpublic-security-api/lib/jps-ee-11.1.1.jar:/u01/applmgr/apps/apps\_st/comn/java/classes/rfi/retailpublic-security-api/lib/jps-manifest-11.1.1.jar:/u01/applmgr/apps/apps\_st/comn/java/classes/rfi/retailpublic-security-api/lib/jps-mbeans-11.1.1.jar:/u01/applmgr/apps/apps\_st/comn/java/classes/rfi/retailpublic-security-api/lib/jps-upgrade-11.1.1.jar:/u01/applmgr/apps/apps\_st/comn/java/classes/rfi/retailpublic-security-api/lib/jps-wls-11.1.1.jar:/u01/applmgr/apps/apps\_st/comn/java/classes/rfi/retailpublic-security-api/lib/identitystore-11.1.1.jar:/u01/applmgr/apps/apps\_st/comn/java/classes/rfi/retailpublic-security-api/lib/oraclepki-11.1.1.jar:/u01/applmgr/apps/apps\_st/comn/java/classes/rfi/retailpublic-security-api/lib/osdt\_core-11.1.1.jar:/u01/applmgr/apps/apps\_st/comn/java/classes/rfi/retailpublic-security-api/lib/osdt\_cert-11.1.1.jar:/u01/applmgr/apps/apps\_st/comn/java/classes/rfi/retailpublic-security-api/lib/sjsxp-1.0.2.jar:/u01/applmgr/apps/apps\_st/comn/java/classes/rfi/retailpublic-security-api/lib/jsr173-1.0.jar:/u01/applmgr/apps/apps\_st/comn/java/classes/rfi/retailpublic-security-api/lib/retail-public-security-api-14.0.0.jar:/u01/app/R12RET/apr12ret/applmgr/apps/tech st/10.1.3/appsu til/jdk/lib/dt.jar:/u01/app/R12RET/apr12ret/applmgr/apps/tech\_st/10.1 .3/appsutil/jdk/lib/tools.jar:/u01/app/R12RET/apr12ret/applmgr/apps/t

ech\_st/10.1.3/appsutil/jdk/jre/lib/rt.jar:/u01/app/R12RET/apr12ret/ap

plmgr/apps/apps\_st/comn/java/lib/appsborg2.zip:/u01/app/R12RET/apr12r et/applmgr/apps/apps\_st/comn/java/classes:/u01/app/R12RET/apr12ret/ap plmgr/apps/apps\_st/comn/java/classes/rfi/rfi-ebs-event-handler/ebsfinancial-common-14.0.01.jar</AF\_CLASSPATH>

- 7. Go to \$ADMIN\_SCRIPTS\_HOME and run adautocfg.sh (Auto config). cd \$ADMIN\_SCRIPTS\_HOME sh adautocfg.sh
- **8.** Enter the APPS user password.
- 9. To verify the values, go to the \$APPL\_CONFIG\_HOME/admin folder and check CLASSPATH and AF\_CLASSPATH in adovars.env. cd \$APPL\_CONFIG\_HOME/admin view adovars.env
- **10.** Stop and restart Concurrent Manager.
  - a. Go to \$ADMIN\_SCRIPTS\_HOME cd \$ADMIN\_SCRIPTS\_HOME
  - **b.** Run sh adcmctl stop <*db\_user*>/<*db\_password*> (sh adcmctl.sh stop apps/\*\*\*\*)
  - **c.** Make sure the Concurrent Manager is in "Not Active" status before running the next command. sh adcmctl status <*db\_user*>/<*db\_password*> (sh adcmctl.sh status apps/\*\*\*\*)
  - **d.** Run sh adcmctl start <*db\_user*>/<*db\_password*> \*\*\*\* )
  - e. Stop and restart the server sh adstpall.sh apps/\*\*\*\* sh adstrtal.sh apps/\*\*\*\*

**Note:** If the Concurrent Manager is Not Active, start Concurrent Manager – sh adcmctl start apps/\*\*\*\*

- f. Verify the values.
  - **a.** Close the telnet session, start a new telnet session, and run the env file (. ./apps.env)
  - **b.** echo \$CLASSPATH and \$AF\_CLASSPATH The added jar file should be there.
- 11. Stop and restart the web server.

Go to \$ADMIN\_SCRIPTS\_HOME.

```
adapcctl.sh stopall
adapcctl.sh startall
```

# **PeopleSoft Database Installation Tasks**

## Prerequisite

It is assumed Oracle database has already been configured and loaded with the appropriate PeopleSoft schema details for your installation. Skip the entire section if you are integrating with EBS.

# **Copy PeopleSoft Specific Files**

**Note:** You can skip the next steps and proceed to section "Create Tablespaces" if you can connect to PeopleSoft Database from ORFI Server using Sqlplus.

- **1.** Log in to the PeopleSoft UNIX server as a user who has sufficient access to run sqlplus from the Oracle Database installation for SYSADM schema.
- **2.** Create the retail-financial-integration-solution/service-based-integration folder in the <INSTALL\_DIR> folder.
- **3.** From the ORFI server, copy <INSTALL\_DIR>/retail-financial-integrationsolution/service-based-integration/setup-data folder to <INSTALL\_DIR>/retailfinancial-integration-solution/service-based-integration folder in PeopleSoft server.

## **Create Tablespaces**

Before you run the ODI Staging database user, make sure that the following tablespace has been created in the database: ODI\_STAGE\_DATA. Below is a sample tablespace creation statement for this tablespace. Oracle Retail recommends the use of locally managed tablespaces with automatic extent and segment space management.

**Note:** These tablespaces are not sized for a production environment.

CREATE TABLESPACE ODI\_STAGE\_DATA DATAFILE '<datafile\_path>/odi\_stage\_data01.dbf' SIZE 500M AUTOEXTEND ON NEXT 100M MAXSIZE 2000M EXTENT MANAGEMENT LOCAL SEGMENT SPACE MANAGEMENT AUTO ;

## Create the ODI Staging Database User

You must create an ODI Staging schema using a create\_user.sql, included with the installer distribution. This will be used to execute the ODI Interface at run time. The create\_user.sql script can be used to create the schema:

\$INSTALL\_DIR/retail-financial-integration-solution/service-based-integration/setupdata/ddl/create\_user.sql

The script takes three arguments on the command line in sqlplus: username, password, and ODI Stage tablespace.

Example:	SQL>@create_user.sql RFI_ODI_TEMP
	<rfi_odi_temp password="" schema=""> <odi stage<="" th=""></odi></rfi_odi_temp>
	Tablespace name>

Please review this script and run it as a user with adequate permissions, such as SYSTEM.

Connect to RFI\_ODI\_TEMP schema as sysdba and grant all privileges to AP schema available on PeopleSoft Database. Grant all privileges will be used for CRUD operation in RFI\_ODI\_TEMP tables while running ODI interfaces.

#### **Create Database Link**

You need to create a database link to load initial data for currency rate, suppliers and payment terms from Oracle PeopleSoft Suite to the Oracle Retail Financial Integration application.

- 1. Log in to the SYSADM database schema in the PeopleSoft database to run create\_dblink.sql script.
- 2. Run the create\_dblink.sql script available in \$INSTALL\_DIR/retail-financialintegration-solution/service-based-integration/setup-data/ddl/from PeopleSoft SYSADM database schema.

The script takes four arguments on the command line: DB link name (PSFT\_RFI\_DBLINK), ORFI schema name, ORFI schema password, and ORFI DB URL.

**Example:** SQL> @create\_dblink.sql <*PSFT\_RFI\_DBLINK*> <*ORFI Schema*> <*ORFI Schema Password*> <*ORFI DB Host:port/SID*>

**Note:** This database link will be used to load initial data for Currency Rate ,Suppliers and Payment Terms from PeopleSoft to ORFI Staging tables. If DB link name is different from default (PSFT\_RFI\_DBLINK), then the user needs to update the DB link name in the SQL scripts which are available in retail-financial-integration-solution/etl-based-integration/

retail-to-psftfin-etl-flows/setup-data/dml.

## Run the PeopleSoft Initial Database Setup

This installer installs the ORFI related objects to the PeopleSoft SYADM database schema.

**Note:** Ensure, sqlplus is executable with correct ths configuration information to PeopleSoft database is set in your path.

 Run the load-initial-setup-data-into-psftfin-schema.sh script available in \$INSTALL\_DIR/psft-financial/install/bin/. After installation is completed, a detailed installation log file is created: \$INSTALL\_DIR/ebsfinancial/install/bin//<timestamp>.log.

**Example:** prompt\$ sh load-initial-setup-data-into-psftfin-schema.sh

sh load-initial-setup-data-into-psftfin-schema.sh

- **2.** The installer prompts for the following details:
  - Enter the PeopleSoft database server SID Enter Database SID.
  - Enter the PeopleSoft Schema details –Enter APPS User ID/Password.
  - Enter the PeopleSoft database server name Enter Database Server Name or IP address.
  - Enter the PeopleSoft database server port Enter Database Port Number.

**Note:** If you get the following error, make sure you have downloaded latest version of the ORFI software from Oracle download site and the is configured.

ERROR: ORA-12154: TNS: could not resolve the connect identifier specified.

## Verification

Log in to the SYSADM database schema in the PeopleSoft database and verify that the RFI\_PS\_ORT\_ACCT\_ENTRY\_SEQ sequence is available using below query: "SELECT \* FROM ALL\_OBJECTS WHERE OBJECT\_NAME='RFI\_PS\_ORT\_ACCT\_ENTRY\_SEQ' AND OBJECT\_TYPE='SEQUENCE';".

# **PeopleSoft Setup Tasks**

To enable the PeopleSoft – RFI Integration the following tasks need to be completed on PeopleSoft (PSFT) side

- Integration Broker (IB) Configuration
- Importing PSFT project
- Security configuration
- Service Configuration
- Providing Web Service GL Account Validation
- Providing permission to required services

## **Integration Broker Configuration**

## Prerequisites to configure IB

For more information on Installation, Please refer to PeopleTools installation guide 8.5x. Database, Web Server, PeopleTools and PIA are all installed.

- 1. Application server Domain Configuration
  - Application server should have been booted with Pub/Sub Servers Yes value

**Note:** If the Application Server is not booted with this value, it needs to be restarted after changing Pub/Sub Servers parameter value to *Yes*.

For more information on Application Server Domain configuration, Please refer to *PeopleTools installation guide 8.5x*. Section – *Configuring the PeopleSoft Application Server*.

- 3. To verify the Pub/Sub parameter value:
  - **a.** Access the PSADMIN Quick-Configure menu by launching psadmin.sh from the PS\_HOME\appserv directory

**b.** Select option 1 [Application Server]



c. Select Option 1 [Administer a domain]



d. Select the domain to configure [E.g. - fscmdmo].



- e. Select Option 4 [Configure this domain]
  - i. The system will prompt "This option will shut down the Domain. Do you want to continue? (y/n) [n] :"
  - **ii.** Select "y" to shut down the domain



```
Shutting down admin processes ...
                                  Server Id = 0 Group Id = msp52229 Machine = msp52229: shutdown succeeded
28 processes stopped.
All domain processes have stopped.
                                                                                                                                                                    _____
Quick-configure menu -- domain: fscmdmo
                                                                                                 Settings
=======
                   Features
Image: system is a series of the system is a syste
                    _____
                                                                                                                                                   _____
                       Actions
   13) Load config as shown
   14) Custom configuration
   15) Edit environment settings
     h) Help for this menu
      q) Return to previous menu
HINT: Enter 15 to edit DBNAME, then 13 to load
Enter selection (1-28, h, or q):
```

f. Confirm that Pub/Sub Servers parameter value is set to Yes. If not select 1 to change the value to Yes.

Quick-configure menu domain: fscmdmo  Features Settings 	
Features         Settings           =========         =========	
Features         Settings	
1) Pub/Sub Servers : Yes 16) DBNAME :[fscmdmo]	
2) Quick Server : No 17) DBTYPE :[ORACLE]	
3) Query Servers : No 18) UserId : [PTWEBSERVER]	
4) Jolt : Yes 19) UserPswd : [peoplesoft]	
5) Jolt Relay : No 20) DomainID :[TESTSERV]	
6) WSL : No 21) AddToPATH :[/u00/oracle/product/11.2.0.3/	bin]
7) PC Debugger : No 22) ConnectID :[PEOPLE]	
<ol> <li>Event Notification: No 23) ConnectPswd: [people]</li> </ol>	
9) MCF Servers : No 24) ServerName :[]	
10) Perf Collator : No 25) DomainConnectPswd:[]	
11) Analytic Servers : No 26) WSL Port :[7000]	
12) Domains Gateway : No 27) JSL Port :[9000]	
28) JRAD Port :[9100]	

**g.** If the value is changed ,**select option 13 to load the new configuration**. If it is not changed, **select q to return to previous menu.** 

Actions
13) Load config as shown
14) Custom configuration
<ol><li>Edit environment settings</li></ol>
h) Help for this menu
q) Return to previous menu
HINT: Enter 15 to edit DBNAME, then 13 to load
Enter selection (1-28, h, or q):

- **h.** Select Option 1 to boot the domain.
  - i. System will prompt for user Options
    - 1) Boot (Serial Boot)
    - 2) Parallel boot
    - q) Quit
  - ii. Select Option 1 [Serial Boot] to boot.

```
_____
PeopleSoft Domain Administration
    Domain Name: fscmdmo
 1) Boot this domain
 2) Domain shutdown menu
 3) Domain status menu
 4) Configure this domain
 5) TUXEDO command line (tmadmin)
 6) Edit configuration/log files menu
 7) Messaging Server Administration menu
 8) Purge Cache
 9) Preload Cache
10) Clean IPC resources of this domain
 q) Quit
Command to execute (1-10, q) : 1
           _____
PeopleSoft Domain Boot Menu
    Domain Name: fscmdmo
 1) Boot (Serial Boot)
 2) Parallel Boot
 q) Quit
Command to execute (1-2, q) [q]: 1
```

- i. Exit from Configuration
  - Enter q to exit from Domain Administration menu
  - Enter q to exit from Application Server Administration menu
  - Enter q to exit from PeopleSoft Server Administration menu

```
27 processes started.
             _____
PeopleSoft Domain Administration
    Domain Name: fscmdmo
 1) Boot this domain
 2) Domain shutdown menu
 3) Domain status menu
 4) Configure this domain
 5) TUXEDO command line (tmadmin)
 6) Edit configuration/log files menu
 7) Messaging Server Administration menu
 8) Purge Cache
 9) Preload Cache
10) Clean IPC resources of this domain
 q) Quit
Command to execute (1-10, q) : q
PeopleSoft Application Server Administration
      _____
 1) Administer a domain
 2) Create a domain
 3) Delete a domain
 4) Import domain configuration
 q) Quit
Command to execute (1-4, q) : q
```

```
_____
PeopleSoft Application Server Administration
        _____
  1) Administer a domain
  2) Create a domain
 3) Delete a domain
 4) Import domain configuration
  q) Quit
Command to execute (1-4, q) : q
PeopleSoft Server Administration
             PS_CFG_HOME /u00/oracle/product/PT8.53/pscfghome
 PS_HOME /u00/oracle/product/PT8.53
PS_APP_HOME /u00/oracle/product/FSCM92
  1) Application Server
  2) Process Scheduler
  3) Search Server
  4) Web (PIA) Server
  5) Switch Config Home
  6) Replicate Config Home
  q) Quit
Command to execute (1-6, q): q
msp52229:[sqlnet] /u00/oracle>
```

## **Default Node**

Each database involved in integration must contain a default local node definition which needs to be Active. The default authentication option to be set as required. In case of Password Node's UserId and Password values need to be configured.

**Navigation**: PeopleTools  $\rightarrow$  Integration Broker  $\rightarrow$  Integration Setup  $\rightarrow$  Nodes

**1.** Search and Open the default node (e.g. PSFT\_EP).

Favorites - Main Menu - PeopleTools - Integration Broker - Integration Setup - Nodes
ORACLE
Nodes
Enter any information you have and click Search. Leave fields blank for a list of all values.
Find an Existing Value Add a New Value
Search Criteria
Search by: Node Name  begins with PSFT_EP
Include History 🖉 Correct History
Search Advanced Search
Search Results
View All First () 1 of 1 () Last
Node Name Description Local Node Default Local Node Node Type PSET_EPEinancials/Supply_Chain 1YPIA
renter interesting of the second seco

#### 2. Make the changes and Save the page.

Favorites - Main Menu - F	PeopleTools *> Integration Broker *> Integration Setup	→ Nodes
ORACLE <sup>®</sup>		
Node Definitions Connectors	Portal WS Security Routings	
Node Name	PSFT_EP	Copy Node
*Description	Financials/Supply Chain	Rename Node
Node Type	PIA Default Local Node	Trename Node
	🖉 Local Node	
*Authentication Option	Password Non Repudiation	
	Segment Aware	
Node Password		
*Default User ID	VP1	
Hub Node		
Master Node		
Master Node		
Company ID		
IB Throttle Threshold		
Image Name	٩	
Codeset Group Name		
Con	tact/Notes Properties	
Save		
Return to Search		

**46** Oracle Retail Financial Integration for Oracle Retail Merchandise Operations Management and Oracle E-Business Suite or PeopleSoft Financials

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# **ANONYMOUS Node – Default User ID**

PeopleSoft uses the Anonymous node when receiving messages from third party system. The user need to verify the default user ID configured for this node is valid.

**Navigation:** Main Menu  $\rightarrow$  PeopleTools  $\rightarrow$  Integration Broker  $\rightarrow$  Integration Setup  $\rightarrow$  Nodes

1. Search for ANONYMOUS node and open it.

ORACLE         Nodes         Enter any information you have and click Search. Leave fields blank for a list of all values.         Find an Existing Value         Add a New Value         Search Criteria         Search by:       Node Name	Favorites * Main Menu * > PeopleTools * > Integration Broker * > Integration Setup * > Nodes 🧟
Nodes         Enter any information you have and click Search. Leave fields blank for a list of all values.         Find an Existing Value         Add a New Value         Search Criteria         Search by:       Node Name	
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ANONYMOUS Used internally by IB system. 0 N External	ANONYMOUS Used internally by IB system. 0 N External

Find an Existing Value | Add a New Value

2. Verity the Default User ID is valid. E.g. VP1						
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*Description	Used internally by IB system.		Rename Node			
*Node Type	External 🔻	Default Local Node	Delete Nede			
		Local Node	Delete Node			
*Authentication Option	None 🔻	Non-Repudiation				
		Segment Aware				
*Default User ID	VP1					
WSIL URL						
Hub Node						
Master Node						
Company ID						
IB Throttle Threshold						
Image Name						
Codeset Group Name						
External User ID						
External Password						
External Version						
Conte	act/Notes Prope	erties				
Save						

# **Activating Pub/Sub Server Domains**

#### Prerequisites for Activating the Pub/Sub Server Domain:

To activate the pub/sub server domains, the pub/sub server option in the PSADMIN domain configuration, 1.) Pub/Sub Servers, must be set to Yes.

For more information on Application Server Domain configuration, Please refer to Enterprise 8.5x PeopleBook: Integration Broker Administration section – Activating Pub/Sub Server Domains.

To Activate the Domain

**Navigation:** PeopleTools  $\rightarrow$  Integration Broker  $\rightarrow$  Service Operation Monitor  $\rightarrow$  Administration  $\rightarrow$  Domain Status

- 1. Click Purge domain status button.
- 2. From the Domain Status drop-down list, select Active.
- **3.** Click the Update button.
- 4. Click the Refresh button.

#### Note:

Three dispatcher processes should appear in the Dispatcher Status grid with the status of active (ACT).

On occasion it may take a few moments for the processes to start. If the processes don't immediately appear in the grid, wait a few moments and click the Refresh button again.

If the three processes appear in Dispatcher Status grid, but with the status of inactive (INACT), click the Update button.

Favorites 👻	Main Men	u≖ → People	Tools 😁	Integration Broker >> Service Operations	Monitor -> /	Adminis	tration	→ Domair	n Status	
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Domain S	Status									
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Machine Name	Dispato	her Name	Applicati	on Server Path	Status St	tring Dat	te/Time	Stamp		
msp52229	PSBRK	CDSP_dflt	/u00/orad	le/product/PT8.53/pscfghome/appserv/fscm	dmo ACT					
msp52229	PSPUE	BDSP_dflt	/u00/orad	le/product/PT8.53/pscfghome/appserv/fscm	dmo ACT					
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## **Integration Broker Configuration Activities**

Sl No	Activity	Description
1	Set up gateway	Define the gateway URL and load target connectors. Register nodes on the local gateway. Define integration gateway keystore values.
2	Add target locations.	Define the schema namespace and the service namespace. Define the target location.

#### **1.** Set up the Gateway.

a. Define the gateway URL and load Target Connectors.

The integration gateway URL specifies the location of the PeopleSoft listening connector used to "listen" for inbound request/integrations. The target connectors handle outbound requests/integrations.

**Navigation:** PeopleTools  $\rightarrow$  Integration Broker  $\rightarrow$  Configuration  $\rightarrow$  Gateways.

**b.** Configure URL field value.

Enter the gateway URL in the following format

http://<machinename>:<port>/PSIGW/PeopleSoftListeningConnector

**Note:** The machine name is the name of the machine where PIA is installed. By default the port number is 80 for HTTP and 443 for HTTPS. If using the default port number, no need to specify it in the URL. (Ensure to have the correct port numbers specified at the time of PeopleSoft installation

Favorites 👻 🛛 Main Menu 👻	> PeopleTools	Integration Broker	Configuration	on ▼≻ Gateways			
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Gateways							
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*Connector ID	Description		*Connector Clas	ss Name			
1					Properties	+	-

🔚 Save 🔯 Return to Search



Gateway Setup Properties

#### For example:

```
http://msp52229.us.oracle.com:7777/PSIGW/PeopleSoftListeningConnector
```

c. Check the Gateway Communication.

Click on "Ping Gateway" button and check the status. A successful ping means that the system can properly communicate with the gateway. If the ping is not successful, check that the correct URL is entered and that it is entered in the proper format.

Favorites 🔻	Main Menu 🔻	> PeopleTools	Integration Broker >> Configuration	n ▼> Gateways
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d. Load Gateway Connectors.

Click the Load Gateway Connectors button. A message appears that indicates the connectors were successfully loaded.

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Gateways				
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**2.** Register Nodes on the Local Gateway.

To register nodes on the local gateway:

**a.** On the Gateways page, click the **Gateway Setup Properties link**. The Gateway Properties page appears.

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Co	onnectors			Gateway Pro	operties			
1		Description		Sign on to access integrationGateway.properties file.				
2				The default user ID	) is 'administrator'.			
4								
3	FILEOUTPUT				User ID administrator			
4	FIPTARGET			Pas	ssword			
5	GETMAILTARGET				Change P	assword		
6	HTTPTARGET							
7	JMSTARGET							
8	PSFT81TARGET							
9	PSFTTARGET			01	Ornerl			
10	RIDCTARGET			UK	Cancel			
11	SFTPTARGET							
12	SMTPTARGET			SMTPTargetConne	ctor	Properties 🛨 🗕		

- Save Return to Search
  - **b.** Enter the user ID and password for the integration gateway. These credentials were defined when PIA was installed.
    - \* In the User ID field, enter the gateway user ID.
    - \* In the Password field, enter the gateway password.
    - \* Click the OK button.

#### The PeopleSoft Node Configuration page appears.

In the Gateway Default App Server grid, define the following:

- In the App Server URL field enter the machine name and Jolt port of the application server.
  - The format is //<machinename>:<port>.

For Example: //msp52229.us.oracle.com:9000.

- \* In the User ID field, enter the application server user ID.
- \* In the Password field, enter the application server password.
- \* In the Tools Release field, enter the release number of the PeopleTools version installed. For example: 8.53.06.
- \* In the Domain Password field, enter the domain password if one was defined when the application server was configured.
- **c.** In the PeopleSoft Nodes grid, define the following fields for the local default node.

**Note:** Depending on the technology you're using, you may need to define other PeopleSoft nodes in the grid.

\* In the Node Name field, enter the name of the local default node.

\* In the App Server URL field enter the machine name and Jolt port of the application server.

The format is //<machinename>:<port>.

An example is //msp52229.us.oracle.com:9000.

- \* In the User ID field, enter the application server user ID.
- \* In the Password field, enter the application server password.
- \* In the Tools Release field, enter the release number of the PeopleTools version installed. For example, 8.53.06.
- \* In the Domain Password field, enter the domain password if one was defined when the application server was configured.
- **d.** Click the Ping Node button.

A successful ping means that the integration gateway can communicate with the node. If the ping is not successful, PSAdmin needs to check the installation details regarding the gateway.

DRACLE									Home
Gateways									
Gateway ID LOC	AL.		Inbound Gate	ways					
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1 AS2TARGET			App Server URL	UserID	Password	Tools Release	Domain Password	Virtual Server Nod	ie
2 EXAMPLETARGETCO	uru£[		/imsp52229 us oracle com 900(	VP1		8.53.05			
3 FLEOUTPUT		PeopleSoft Nod	15			Personalize   Find	View All   🕮   🏙	First (1) 1 of 1 (1)	Last
4 FTPTARGET		Node Name	App Server URL	User ID	Password	Tools Release	Domain Paseword		
5 GETMAIL TARGET		PSFT_EP	//msp52229 us oracle.com 900	VP1		8.53.06		Ping Node	+ -
6 HTTPTARGET		Advanced Propert	ies Page						
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1 AS2TARGET			App Server URI		User ID	Password	Tools Release	Domain Password	Virtual Server N	lode
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3 FILEOUTPUT		PeopleSoft Nodes					Personalize   Find	I VIEW ALL LED LE	First 4 1 of 1	EList
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6 WITPTAPOET		Advanced Propertie	s Page							
7 INSTARCET		Ping Node Results							8	
9 DOLTRATADOLT										
a Fortonination		Node Information								
a Partrakent		Integration Gateway ID	Connector ID	Connec	tor URL		Message Text			
10 RIDCTARGET		LOCAL	PSFTTARGET				Success (117,73)			
11 SFTPTARGET		Return								
12 SMTPTARGET									10	

3. Define Integration Gateway Keystore Values

The keystore password value in the integration gateway properties file needs to be encrypted. The path to the keystore is populated during the PIA installation process, but it is a good practice to confirm that the path is accurate during this task. **Note:** Integrations will fail if you do not enter an encrypted keystore password for the secureFileKeystorePasswd property.

For example: The following code snippet shows an example of the keystore values before they are configured:

```
secureFileKeystorePath=
/u00/oracle/product/PT8.53/webserv/FSCMDMO/piaconfig/keystore/pskey
#secureFileKeystorePasswd=
```

To configure these settings confirm that the path to the keystore is correct. Next, encrypt the keystore password with the provide encryption utility, uncomment the secureKeystorePasswd property, and set the property equal to the encrypted password.

For example: The following code snippet shows an example of the keystore values after they are properly configured:

```
secureFileKeystorePath=
secureFileKeystorePath=/u00/oracle/product/PT8.53/webserv/FSCMDMO/piaconfig/ke
ystore/pskey
secureFileKeystorePasswd={V1.1}7m40tVwMGDyLc1j6pZG69Q==
```

- **4.** Define integration gateway keystore values.
  - **a.** From the PeopleSoft Node Configuration page, click the Advanced Properties Page link.

The Gateway Properties page appears.

- **b.** Scroll to the ## Integration Gateway CERTIFICATE Section of the file.
- c. Locate the secureFileKeystorePath property.
- d. Confirm the keystore path setting:
  - i. Uncomment the secureFileKeystorePath property if it is not already uncommented.
  - ii. Confirm that the path defined for the keystore path is accurate.
- e. Enter an encrypted keystore password.
- f. Expand the Password Encryption utility at the bottom of the page.
  - i. In the Password field, enter the keystore password. **Note :-** Password should be the domain password set at time of
  - ii. In the Confirm Password field, enter the password again.
  - iii. Click the Enter button to encrypt the password.
    - The encrypted password appears in the Encrypted Password field.
  - iv. Copy the value in the Encrypted Password field to the clipboard.
  - v. Navigate back to the secureFileKeystorePasswd property in the file.
  - vi. Uncomment the property and paste the encrypted value, setting the property equal to the encrypted value.
- g. Click the OK button
- 5. Encrypt a password using the Password Encryption Utility.
  - **a.** On the page where you are working, click the Password Encryption Utility arrow to display the dialog box.
  - **b.** In the Password field, enter a password.
  - **c.** In the Confirm Password field, enter the password again.

- **d.** Click the Encrypt button. The encrypted password displays in the Encrypted Password field.
- **e.** From the Encrypted Password field, cut the encrypted password and paste it into the appropriate location

Password Encryption Utility	
Password	Confirm Password
Encrypt Encrypted Passwor	ret:

#### Favorites - Main Menu - > PeopleTools -> Integration Broker -> Configuration -> Gatewa ORACLE Gateways Inbound Gateways Gateway ID LOCAL Local Gateway JMS Administration URL http://msp52229.us.oracle.com:7777/PSIGW/PeopleSoftListeningConne Ping Gateway Load Gateway Connectors PeopleSoft Node Configuration Gateway Setup Properties Load Gateway Connectors URL: http://msp52229 us.oracle.com.7777/PSIGW/PeopleSoftListeningConnector Connectors URL: http://msp52229 us.oracle.com.7777/PSIGW/PeopleSoftListeningConnector Connector ID Description App. Server URL User ID Password 2 EXAMPLETARGETCONNE PeopleSoft Nodes PrileDUTPUT PeopleSoft Nodes PrileDUTPUT 6 ETTAIALTARGET 6 GETMALTARGET Advanced Properties Page OK Cancel Save User ID Password Tools Release Domain Password Virtual Server Node 0 VP1 8.53.06 Personalize | Find | View All | 🖉 | 🛄 First 🕚 1 of 1 🕑 Last Tools Release Domain Password 8.53.06 Ping Node 🛨 🖃 OK Cancel Save 7 JMSTARGET

Favorites - Main Menu - PeopleTools -	Integration Broker >> Configuration >> Ga	ateways
ORACLE		
Gateways		
Gateway ID LOCAL	In	IB Gateway Properties
🗹 Local Gateway	Load Balancer JI	
URL http://msp52229.us.oracle.com:77	77/PSIGW/PeopleSoftListeningConne	Gateway Properties
Gateway Setup Properties	PeopleSoft Node Configuration	URL http://msp52229.us.oracle.com:7777/PSIGW/PeopleSoftListeningConnector
Connectors Connector ID Description	URL: http://msp52229.us.oracle.com:7 Gateway Default App. Server	H#These two properties are generic setups for <u>PeopleSoft</u> certificate support. No
1 AS2TARGET	App Server URL //msp52229.us.oracle	# Use the supplied encryption utility to provide an encrypted password for the entry below # Frample:
3 FILEOUTPUT	PeopleSoft Nodes Node Name App Server URL	# #scureTuckeystorePath= <filelocation> #scureTuckeystorePasswd=<password></password></filelocation>
5 GETMAILTARGET	PSFT_EP //msp52229.us.oracle Advanced Properties Page	" secureFileKeystorePath=/u00/oracle/product/PT8.53/webserv/ESCMDMO/biaconfilg/ke ystore/pakey
7 JMSTARGET	OK Cancel Save	secureFileKeystorePasswd=iV1.1)7m4OftvwXFNyLc1j6bZG69Q== #
8 PSFT81TARGET	ApplicationMessagingT	
9 PSFTTARGET	PeopleSoftTargetConne	Password Encryption
10 RIDCTARGET	RIDCTargetConnector	OK Cancel
11 SFTPTARGET	SFTPTargetConnector	
12 SMTPTARGET	SMTPTargetConnector	Properties + -

- **6.** Add the Target Location.
  - **a**. Define the schema namespace and the service namespace

Namespaces provide a method for qualifying element and attribute names that are used in XML documents and are identified by Uniform Resource Identifier (URI) references.

To define the schema namespace and the service namespace, use the Service Configuration page. To access the page selectPeopleTools, then selectIntegration Broker, then selectIntegration Network WorkCenter, then selectIB Configure Network and click theAdd Target Location(s) link in the left navigation pane.

PeopleTools provides the following default namespaces:

Service Namespace	http://xmlns.oracle.com/Enterprise/Tools/services
Schema Namespace	http://xmlns.oracle.com/Enterprise/Tools/schemas

You can use the default values or define different values.

To define the schema namespace and the service namespace:

- i. Access the Integration Broker Configuration activity guide (selectPeopleTools, then selectIntegration Broker, then selectIntegration Network WorkCenter, then selectIB Configure Network).
- ii. In the left navigation pane click Add Target Location(s).
- iii. The Service Configuration page appears.
- iv. In the Service Namespace field, enter the service namespace.
- v. In the Schema Namespace field, enter the schema namespace.
- vi. Click the Save button.
- b. Configure Target and Secure Target Location

Target locations are URLs that PeopleSoft Integration Broker uses to build and validate XML message schemas, export WSDL documents, and as the SOAP endpoint. For REST services, target locations are URLS that PeopleSoft Integration Broker uses to export WADL documents and as the REST endpoint.

In general, the URL you specify as a target location should be an unsecured URL. If you need to enter secure target URLs, please see the product documentation for additional information before proceeding. You need to set the REST target location only if performing integrations with REST-based services.

Use the Target Locations page to define target locations. To access the page, click the Set Target Locations link on the Service Configuration page or

**Navigation:** PeopleTools  $\rightarrow$  Integration Broker  $\rightarrow$  Configuration  $\rightarrow$  Service Configuration

The Target Locations page provides examples of the format to enter for the target location.

- **c.** The primary example shows how to enter the target location if you are using a dedicated integration gateway.
- **d.** The alternate example shows the format to use if the default local node points to a different gateway where WSDL documents and XSD schemas are available. **Providing an alternate example is always optional**
- **7.** Define target locations.
  - **a.** On the Service Configuration page, click the Set Target Locations link.

- **b.** The Target Locations page appears.
- **c.** In the Web Services Target Locations box, in the Target Locations field enter the target location, following the example format shown. Note that the port value you enter is the HTTP port.( **Note :- Port should be the port number referred in application URL**)
- d. If REST Services are used: In the REST Target Locations box, in the Target Locations field enter the target location of REST services, following the example format shown. Note that the port value you enter is the HTTP port.(Note :- Port should be the port number referred in application URL)
- e. Click the OK button.

The Service Configuration page appears.

	> PeopleTools T> Integration Broker T> Configuration T> Service Configuration
Service Configuration UDD	I Configuration Restricted Services Exclude PSFT Auth Token
*Servic	e Namespace http://xmins.oracle.com/Enterprise/FSCM/service
*Schem	a Namespace http://xmlns.oracle.com/Enterprise/FSCM/schema
*Service S	ystem Status Development
*WSDL Generatio	n Alias Check None
	*Target Location(s) Required for Web Services Setup Target Locations Last Updated VP1 Last Update Date/Ti
Target Locations	
Web Services Target Locations	S
*Target Location	http://msp52229.us.oracle.com;7777/PSIGW/PeopleSoftServiceListeningConnector
Example	http:// <machine>:<port>/PSIGW/PeopleSoftServiceListeningConnector</port></machine>
Secure Target Location	
Example	https://msp52229.us.oracle.com//////PSiGW/PeopleSoftServiceListeringConnectu
Alternate Example	https:// <machine>:<port>/PSIGW/PeopleSoftServiceListeningConnector/<defaultiocalnode></defaultiocalnode></port></machine>
REST Target Locations	
Target Location	
Example	http:// <machine>:<port>/PSIGW/RESTListeningConnector</port></machine>
Alternate Example	http:// <machine>:<port>/PSIGW/RESTListeningConnector/<defaultlocalnode></defaultlocalnode></port></machine>
Secure Target Location	
Example	https:// <machine>:<port>/PSIGW/RESTListeningConnector</port></machine>
Alternate Example	https:// <machine>:<port>/PSIGW/RESTListeningConnector/<defaultlocalnode></defaultlocalnode></port></machine>
OK Cancel	

# **Verifying IB Configuration**

Navigation: Main Menu  $\rightarrow$  PeopleTools  $\rightarrow$  Integration Broker  $\rightarrow$  Integration Network  $\rightarrow$  Configuration Status

All Status should be active.

- Gateway Configured
- Node Network configured
- Domain Active



## **Importing PSFT Project**

Importing the project can be done using Application Designer tool. Open the application designer from any windows work station. Refer the below screenshots. **Navigation:** All Programs  $\rightarrow$  PeopleTools 8.x  $\rightarrow$  Application Designer



1. Enter the PeopleSoft DB name (E.g. PSDVOLS1), Application User Id and Password (E.g. VP1/VP1)

Signon	<b>••••</b>				
ORACLE'	PeopleTools 8.53.06				
Enter Signon Information Below:					
Connection Type:	Oracle				
Database Name:	PSDV0LS1				
User ID:	VP1				
Password:	•••				
	OK Cancel				
Copyright © 1988,2013, Oracle and/or its affiliates. All rights reserved.					



Opening project ...

2. Copy the project file (zip file) in any folder in the workstation available under the <INSTALL\_DIR>/psft-financial/psft-integrationbroker/src/main/resources/RFI\_PSFT\_CONNECTOR



3. Unzip the file in any folder as required

	Local Disk (C:)      tmp_psft     tmp_psft			•			
Organize 🔻 🔚 Open 🛛 Include in library 🔻 Share with 🔻 New folder							
🔶 Favorites	Name	Date modified	Туре	Size			
🧾 Desktop	RFI_PSFT_CONNECTOR	3/10/2014 11:38 PM	File folder				
🏭 Downloads	RFI_PSFT_CONNECTOR.zip	3/7/2014 9:59 PM	WinZip File	109 KB			
🖳 Recent Places							
**a.** Copying Project from a File

The Copy Project From File command in the Tools menu imports PeopleTools definitions and the project definition from a file that was previously copied by using the Copy To File feature.

This section discusses how to:

- Copy a project that does not exist in the database from a file.
- Copy a project that does exist in the database from a file.
- **b.** Copy a project that does not exist in the database from a file.
  - i. Select select Tools, then select Copy Project, then select From File.
  - ii. The Copy From File: Select Project dialog box appears.
  - iii. Browse to locate the project file or select the file from the Projects list.

**Note:** You can use the Open button to open folders while browsing. It does not open the project file and begin the copy process.

Application Designer -	Untitled						
ile Edit View Insert	Build Debug	Tools	Go Window	Help			
	X 🖻 🖻 😭	V	alidate Syntax	c.p		} 5	9
		V	alidate Project				
🐑 Untitled		V	alidate Database	WSRP			
		С	Compile all Peopl	leCode			
		C	Compile Project P	eopleCode			
		D	)iff/Merge Projec	t PeopleCode:	•		
		D	)iff/Merge Extern	al Text	×		
		С	Compare and Rep	oort	•		
		C	Copy Project		•		To Database
		D	ata Administrati	on	×.		To File
		C	hange Control		•		From File
		U	lpgrade				
		N	/liscellaneous De	finitions	•		
		В	ulk Operations		+		
		0	)ptions				
		C	Create Change Pa	ickage			
		Fi	inalize Change P	ackage			

**Note:** You can copy only one project from a file at a time.

iv. Select the Project File Folder

XX Application Designer - Untitled						8
File Edit View Insert Build Debu	g Tools Go V	/indow Help				
🗅 🚅 🗏 🎒 🍜 🕮 🛍 🗈	💐 Copy From Fil	e : Select Project				×
	Look in:	퉬 tmp_psft		•	G 🤌 📂 🛄 🗸	
Untitled	An	Name	*		Date modified	Туре
	Recent Places	RFI_PSFT_CC	ONNECTOR		3/10/2014 11:38 PM	File folder
	Desktop					
	Libraries					
	MSP52141					
		4		11		
	Network					
		File name:			• •	Open
						Cancer
▲ ▶ \ Build λ Upgrade λ Results λ	Select Project fro	m the List Below				
	Inri Part_CO	NNECTOR				
Ready						
HOME						
gram Files				Se	elect	
gram Files (						

v. Select the Override Pre-Requisites check box if required.

You can select the Override Pre-Requisites check box if you want the system not to check for project prerequisites and apply the project regardless of prerequisites that have not been applied.

vi. Click Copy.

There are two phases to the Import process: content on the XML file is written to the system cache directory (as specified in the PeopleSoft Configuration Manager) under a stage directory for the current database. Then the cache is copied to the database. When the import is complete, the cache files are deleted.

The Progress dialog box shows the progress of the Copy process as it copies each definition from the export directory into the attached database. When the Copy from File process successfully completes, the system creates a new project definition from the PeopleTools definitions in the current database. Copy process result details will be shown in Application designer local window.

Local string &RFI_Str_ResultXML;	

If you click the Cancel button before copying the project, the project becomes invalid and the system deletes the project reference from the database.

**Note:** The below mentioned section can be skippedif previously mentioned steps are executed i.e. Copy a project that does not exist in the database from a file are executed

**c.** Copy a project that does exist in the database from a file.

The process for copying a project from a file when a project of the same name exists in the database is slightly different. After selecting Tools, Copy Project, From File and a project of the same name already exists in the database to which you are currently signed on, the following dialog box appears.

C	ppy From File
	Project Q846SRCE already exists on database Q846SRCE
	Please select to use the current project definition from the database, or to overwrite the existing project with the definition from file.
	Use Project Definition from:
	© <u>File</u>
	O <u>D</u> atabase
	Selecting "File" will overwrite existing database project definition, and use the Upgrade Action and Take Action flags as set in the File project definition.
	Selecting "Database" will use the Upgrade Action and Take Action flags as set in the current database Project Definition.
	[K] C_ancel

This prompt enables you to specify which project definition to use, the one stored in the database to which you are signed on or the one stored in the file from which you intend to copy. Keep in mind that the project definition is the metadata of the project and determines which definitions (pages, fields, records, and so on) are members of the project.

4. Build Project Objects.

After importing the project, all record objects [Tables and Views] need to be built from Application Designer.

**a.** Open [Ctrl + O] project definition – RFI\_PSFT\_CONNECTOR

**Note:** If RFI\_PSFT\_CONNECTION project is already opened, skip this step. Same can be checked on the left side panel.

🌉 Application Designer - Untitled		
File Edit View Insert Build Debug Tools Go Window Help		
Untitled	Open Definition         Definition         Selection Criteria         Name       RFLPSFT_CONNECTOR         Description         Definitions matching selection criteria:         Name       Description         RFL_PSFT_CONNECTOR         RFL_PSFT_CONNECTOR	Open Cancel New Search

b. All record objects in project RFI\_PSFT\_CONNECTOR needs to be built. Select Build → Project menu.



Fig 2

🗃 🖬 🎒 🚳	X % 🖻 🗇 🖉			
RFI_PSFT_CONN	ECTOR 'ackages			
Components	Build	8	Build Settings	
Messages	Build Scope	Build	Create Alter Logging Scripts	
Records	RFLCOMM_WRK RFLWS_SEC_TBL	Cancel Settings Build Options Create Tables Create Tables Create Views Arer Tables Create Views Arer Tables Create Trigger Build Execute Options Build Execute Options Build Execute Options Build Execute Options Build Execute Options Build Execute Options Build Execute Options	Table Creation Options	

**c.** App Designer will list all the record objects to build. Select options as below.

**d.** Click on Build button to build the records.

Application Designer - RFI_PSFT_CO	NNECTOR	
ile Edit View Insert Build Debi	ug Tools Go Window Help	( · · · · · · · · · · · · · · · · · · ·
D 🖆 🗏 🍠 🍜 🕺 🖻 💼 💼	8 1 🖸	
<ul> <li>RFI_PSFT_CONNECTOR</li> <li>Application Packages</li> <li>Components</li> <li>Menus</li> <li>Messages</li> <li>Pages</li> <li>Records</li> </ul>	Build Build Scope RFI_COMM_WRK RFI_WS_SEC_TBL	Build Options Create Tables Create Indexes Create Views Alter Tables Create Trigger Build Execute Options Build Execute SQL now Execute and build script

The following system message appears: "Potential data destructive settings are active. Continue the build process?"

**e.** Click yes to continue.

Build				23
Build Scope RFI_COMM_WP RFI_INVOICE_V RFI_WS_SEC_	RK √RK TBL			Build Cancel
Application Des	igner			×
Poten	tially data destruc the buik Yes	tive setting d process? No	s are active. (76,43) Explain	Continue
		Build Build Ex © Ex	Execute Op uild script file xecute SQL xecute and l	tions ; now puild script

The log file should show one record processed, o errors, o warnings. If any error, click on PSBUILD.log to know more details.

f. If the system throws any error during Build process, refer the Error Handling / Validation section [Error When Building the Project Objects] for solution.

刘 /	pplic	ation De	signer -	RFI_PSF	T_CONN	ECT	OR			_	
File	Edit	View	Insert	Build	Debug	Тс	ools G	0	Window	Help	
D	🔒 l	8 🍠	#	よ 🖻	6 🗬	8					
-							_	1			
		PSFT_C PSFT_C Compo Menus Messag Pages Records	ONNECC tion Pace es	TOR							
Ť,	剤 De	velopr	nent	🎁 Upg	rade						
_				_		_					J
50 1 r 50 50	L Buil ecords L Buil L exe L Buil	d process process d script fo cuted on d log file	ended ed, 0 em all proc ine. written to	on 2/5/2 ors, 0 wa cesses w	014 at 3:44 mings. itten to file s\psftuser\	C:VL	AM. Jsers\ps Data\Lo	ftus	er\AppData	\Local\Te	emp\PSBUILD.SQL.

**g.** After checking the log details close the log file.



**Note:** Log shows only one record processed because system will build only physical records and views. For more detail refer Enterprise PeopleTools 8.4X, 8.5X PeopleBook: PeopleSoft Application Designer > Creating Record Definitions

# **Configuring Services**

**Note:** Some configurations listed in this section might be available already after importing the project [PeopleSoft Setup Tasks – Importing PSFT project] in Target Environment. Verify the details based on the information below and do the configuration only if required.

For all Services involved in RFI Integration, the following configurations need to be completed.

- Adding RFI\_PL\_INTEGRATION permission list to all Service Operations
- Updating the Routing Parameter based on the Target system

#### Vendor

Service: SUPPLIERBUSINESSEVENTHANDLERSE

Service Operation: HANDLEBUSINESSEVENT

**Navigation:** Main Menu  $\rightarrow$  PeopleTools  $\rightarrow$  Integration Broker  $\rightarrow$  Integration Setup  $\rightarrow$  Services

1. Search for service – SUPPLIERBUSINESSEVENTHANDLERSE and click on Service Link.

Favorites - Main Menu - > Peo	pleTools 🔹 Integration Broker 🍬	Integration S	etup 🔹 Services
			Home W
ORACLE <sup>®</sup>			
Services - Search			
Search Criteria			
Gearch Ghtena			
Service	SUP	<u>_</u>	Add a New Value
(	REST Service		
Search			
Services	Personalize	Find View A	All   🖾   🛅 👘 First 🐠 1 of 1 🛞 Last
Service	Service Alias	Object Owner ID	Description
SUPPLIERBUSINESSEVENTHANDLERSE	SupplierBusinessEventHandlerService		SUPPLIERBUSINESSEVENTHANDLERSE

**2.** From the Service Definition page, click on Service Operation link to open Service Operation.



### Services

Service 3	SUPPLIERBUSINESSEVENTHANDLE	ERSE 📃	<b>REST Servi</b>	се Туре
*Description	UPPLIERBUSINESSEVENTHANDLE	R		
Comments §	SUPPLIERBUSINESSEVENTHANDLE	RSERVICE	_/_	
Service Alias S	SupplierBusinessEventHandlerSei			
Owner ID	•			
*Namespace h	ttp://www.oracle.com/retail/rfi/psft/con	nector/servi	ce	
Link Existing Operations	View WSDL			
Service Operations				
Service Operation				
Operation Type	¥		Add	
Existing Operations Operation Message Links	Personalize   Find   View All   🖾	Firs 🗎	st 🕙 1 of 1 🤇	D Last
Operation.Default Version	Description	Active	Operation T	уре
HANDLEBUSINESSEVENT.V1	HANDLEBUSINESSEVENT	1	Synch	-
Save Return to Sear	ch			Add

**3.** From the Service Operation Definition page, click on Service Operation Security link. This will open a popup window.

General Handlers Routings Service Operation Operation Type "Operation Description Operation Comments	HANDLEBUSINESSEVENT Synchronous HANDLEBUSINESSEVENT HANDLEBUSINESSEVENT	User/Password Required     *Req Verification     Service Operation Security	•
Owner ID Operation Alias	handleBusinessEvent	Used with Think Time Methods	
Default Service Operation Version			
*Version Version F	/1 IANDLEBUSINESSEVENT	Default     Active     Routing Status	
Version Comments	DO NOT REMOVE **	Any to Lease Dage paterial	1

**4.** From the Service Operation Web Service Access page, add the permission list – RFI\_PL\_INTEGRATION (if not available already) to WebService access with full access and click Save.

Favorites - Main Menu - > People	Tools * ) Integration Broker * ) Inte	egration Setup = > Services	
ORACLE			
General Handlers Routings			PeopleSoft Employee Portal - Google Chrome
Service Operation Operation Typ *Operation Description	HANDLEBUSINESSEVENT Synchronous HANDLEBUSINESSEVENT		msp52229.us.oracle.com:7777/psp/FSCMDMO_1/EMPLOYEE/E Favorites - Main Menu -> PeopleTools -> Integration Broker -> Integra
Operation Comment	HANDLEBUSINESSEVENT	User/Pass     Req Verificatio     Service Operation Security	Web Service Access
Operation Alian	handleBusinessEvent	Used with Think Time I	Operation: HANDLEBUSINESSEVENT
Default Service Operation Version "Version	V1	🖉 Default 🛛 🗟 A	Permission Personalize   Find   🖓   🖼 First 🕸 1 of 1 🕸 Last
Version Description	HANDLEBUSINESSEVENT	Routing Status	RFI_PL_INTEGRATION
Version Comments	** DO NOT REMOVE ** Binding Style: SOAP-DOCUMENT	Any-to-Local Local-to-Local	
Ru	ntime Schema Validation	Routing Actions Upon Save	12 Care Th Datum to Careth The Province in List of Martin List
	Request Message	Generate Anv.to.l ocal	ALL SAFE OF THE PROPERTY OF THE PROPERTY OF THE OWNER OF THE

**5.** From the Routing Definition tab, go to the Routing Definition tab and click the Routing Definition Link. [Name: ~IMPORTED~10419].

RACL	E.							
neral H	andiers Routings							
	Service Operation H	NDLEBUSINESSE	EVENT					
	Default Version V1	User Exception						
	Detault Version V1	User Exception is user exception s ual routing will be	itatus is applicable on) used.	if an outbound routin	cannot be determined. If	a valid outbound rou	ing can be determined the	n the user exception status or
	Default Version V	User Exception is user exception a tual routing will be	itatus is applicable oni used.	ill an outbound routin	cannot be determined. If	a valid outbound rout	ing can be determined the	n the user exception status or
Routing De	Default Version V	User Exception is user exception s tual routing will be	status is applicable oni used.	y if an outbound routin	cannot be determined. If	a valid outbound rout Personalizi	ing can be determined the	n the user exception status of
Routing De	Default Version V	User Exception is user exception a tual routing will be Version	status is applicable onl used. Operation Type	r II an outbound routin Add Sender Node	cannol be determined. If Receiver Node	a valid outbound rout Personality Direction	ing can be determined the b   Find   View All   [2]   [1] Status	n the user exception status or First & 1 of 1 & Les Results

**6.** From the IB Routing Definitions page, click on the Connector Properties tab and change the Primary URL value based on the Target system. The primary URL is to point to the RFI service URL that needs to be invoked from PeopleSoft. Click Save.

ineral H	andlers Routings			— [	IB Routing Definit	ions		Ş	_	Ĩ
	Service Operation Default Version Note	HANDLEBUSHE V1 III User Excepte This user except actual routing will	ISSEVENT m Ion status is applicable only I be used.	if an outbound rok	Routing Definitions Ro Service Service Opera	Parameters outing Name -IMP ce Operation HAN tion Version V1	Connector Properties ORTED-10419 DLEBUSINESSEVENT	Routing Properties		
	Routing Name			Add		Gateway ID LOCA	4	a		
Routing De Selected	finitiona Name	Version	Operation Type	Sender Node	*0	elivery Mode Guar	anleed Delivery	•		
0	-IMPORTED-1041	19 V1	Synch	PSFT_EP	Connector Properties	Persona	lize   Find   View All   💷	First 3 1-5	of 5 🕘 Li	10.00
inactivat	te Selected Routings		Schvate Selected Routings	-	Property ID HEADER	Property Name	Value		10 10	
Save		Return to Service	*		HEADER	sendUncompres	sed Y		9.1	ļ
ieral   Handi	ers   Routings				HTTPPROPERTY	Method	POST		Q. 0	j
					HTTPPROPERTY	SCAPUpContent	Y		Q. (+)	
					PRIMARYURL	URL	http://msp522	29.us.orade.com 700	ia. 🛨	ī

### **Payment Terms**

Service: PAYTERMBUSINESSEVENTHANDLERSER

Service Operation: HANDLEBUSINESSEVENT10485

**Navigation:** Main Menu  $\rightarrow$  PeopleTools  $\rightarrow$  Integration Broker  $\rightarrow$  Integration Setup  $\rightarrow$  Services

1. From the Service Definition page, search for service – PAYTERMBUSINESSEVENTHANDLERSER and click the Service Link.

Favorites 👻 🛛 Main Menu 👻 > Peop	leTools 🔹 Integration Broker 🔹 Ir	ntegration	Setup -> Services
			Home W
DRACLE <sup>.</sup>			
Services - Search			
V Search Criteria			
Search Chiena			
Service P/	TERMBUSINESSEVENTHANDLERSE	2	Add a New Value
	REST Service		
Search			
Services	Personalize	Find   View	All   🖾   🛄 🛛 First 🕙 1 of 1 🛞 Last
Service	Service Alias	Object Owner ID	Description
PAYTERMBUSINESSEVENTHANDLERSEF	PayTermBusinessEventHandlerService		PAYTERMBUSINESSEVENTHANDLERSER

**2.** Click the Service Operation link to open the Service Operation.

Favorites 👻	Main Menu 👻 🔿 Pe	opleTools >> Integration Broker	→ Integr	ration Setup	> Services
	E.				
Services					
	Service PAYTE	ERMBUSINESSEVENTHANDLERS	ER 🗌	REST Service	Туре
	*Description PAYTE	RMBUSINESSEVENTHANDLERS			
	Comments PAYTE	RMBUSINESSEVENTHANDLERSE	ERVICE	7	
	Service Alias PoyTor	mBucinoccEventHandlerSe		_/_	
	Owner ID				
	*Namespace http://w	ww.oracle.com/retail/rfi/psft/connec	ctor/servic	e	
Link Existing O	perations	View WSDL		_	
Service Oper	rations				
Se	rvice Operation				
	Operation Type	<b>.</b>	۵	dd	
				luu	
Existing Ope	erations Per	sonalize   Find   View All   💷   🛄	First	t 🕙 1 of 1 🕑	Last
Operation	Message Links	•			
Operation.Def	ault Version	Description	Active	Operation Type	
HANDLEBUS	INESSEVENT10485.V1	HANDLEBUSINESSEVENT	<b>V</b>	Synch	-
Save	Return to Search				Add

**3.** From the Service Operation Definition page, click the Service Operation Security link. This will open a popup window.

General Handlers Routings			
Service Operation Operation Type "Operation Description	HANDLEBUSINESSEVENT10485 Synchronous		
Operation Comments	HANDLEBUSINESSEVENT	User/Password Required *Req Verification Service Operation Security	
Owner ID Operation Alias	▼	Used with Think Time Methods	
Default Service Operation Version			
*Version Version Description	V1 HANDLEBUSINESSEVENT	Centre C	

**4.** From the Service Operation Web Service Access page, add Permission list – RFI\_PL\_INTEGRATION (if not already available) to WebService access with full access and click on Save.

General Handlers Routinos			📔 PeopleSoft Employee Portal - Google Chro	me
Service Operation Operation Typ *Operation Description Operation Comment	HANDLEBUSINESSEVENT10485     Synchronous     HANDLEBUSINESSEVENT     HANDLEBUSINESSEVENT	Reg Verification	msp52229.us.oracle.com/7777/ Favorites - Main Menu - > PeopleT      ORACLE      Web Service Access	psp/FSCMDMO_2/EMPLOYE
Owner I Operation Alia	s handleBusinessEvent	Used with Think Time M	Operation: HANDLEBUSINESS	EVENT10485
Default Senice Operation Version			Permission Personalize   Find   C	First & 1 of 1 & Last
"Version Version Description	V1 HANDLEBUSINESSEVENT	Default     Routing Status	Permission List RFI_PL_INTEGRATION	Access Full Access
Version Comments	** DO NOT REMOVE ** Binding Style: SOAP-DOCUMENT	Any-to-Local I Local-to-Local I		
Ph	ntime Schema Validation	Routing Actions Upon Save	Save Return to Search	

**5.** From the Routing Definition tab, go to the Routing Definition tab and click the Routing Definition Link. Routing Definition Name: ~IMPORTED~13540

RACL	LE'								H
ineral H	Handlers Routings								
	Service Operation HA	NOLEBUSINESSI	EVENT10485						
	Default Version V1								
		Dens Exception							
		User Exception							
	Note Th	user exception is user exception i usl roution will be	status is applicable only i	f an outbound routing	cannot be determined. If	a valid outbound rout	ing can be determined then	the user exception st	latus on t
	Note Th act	is user exception i ual routing will be	status is applicable only i used.	f an outbound routing	cannot be determined. If	a valid outbound rout	ing can be determined then	the user exception st	latus on t
	Note Th act Routing Name	is user exception ual routing will be	status is applicable only i used.	f an outbound routing	cannot be determined. If	a valid outbound rout	ing can be determined then	the user exception st	tatus on t
Routing De	Note Tri act Routing Name	is user exception ual routing will be	status is applicable only i used.	f an outbound routing	cannot be determined. If	a valid outbound rout Personalizi	Ing can be determined then	the user exception st	Last
Routing D	Note Th act Routing Name Metinitions Name	user exception ual routing will be Version	status is applicable only i used Operation Type	f an outbound routing Add	cannot be determined. If	a valid outbound rout Personalize Direction	Ing can be determined then Find   View All   [21]   111 Status	the user exception st First (\$) 1 of 1 Results	Last
Routing Di Selected	Note Th act Routing Name Winctions Name -IMPORTED-13540	Version V1	status is applicable only i used. Operation Type Synch	Add Sender Node PSFT_EP	Receiver Node	e valid outbound rout Personalize Direction Outbound	Ing can be determined then Find   View All   (3) 155 Status Active	the user exception st First (6) 1 of 1 ( Results	Last
Routing Di Selected	Note Th act Routing Name Infinitions Name -BAPORTED-13540 ate Selected Routings	Version V1	status is applicable only i used Operation Type Sjinch	fan outbound reuting Add Sender Node PSFT_EP	Receiver Node	e valid outbound rout Personalize Direction Outbound	ing can be determined then 5   Find   View All   (21)   111 Status Active	The user exception st First (\$) 1 of 1 Results	Last

**6.** From the IB Routing Definitions page, click the Connector Properties tab and change the Primary URL value based on the Target system. Primary URL is to point to the RFI service URL that needs to be invoked from PeopleSoft. Click Save.

Favorites - Main Menu - > PeopleTools -> Integration Broker -> Int	egration Setup - > Se	Nices					
General Handlers Routings Service Operation HANDLEBUSINESSEVENT10485 Default Version V1 User Exception Note This user exception status is applicable actual routing will be used Routing Name	IB Routing Definit Routing Definitions Rev Service Opera	On'S Parameters witing Name -IMPOF e Operation HANDL tion Version V1 Gateway ID LOCAL onnector ID HTTPTA	onnector Properties RTED-13540 EBUSINESSEVENT104	Routing Properties			
Routing Definitions Selected Name Version Operation Typ	*De Connector Properties	livery Mode Guaran Personalize	e   Find   View All   🕮	<ul> <li>First 4 1-5 0</li> </ul>	159	i.	ast
Inactivate Selected Routings Activate Selected Routing	Property ID HEADER	Property Name Content-Type	Value text/kml		9.1	+	-
Save Return to Service General   Handlers   Routings	HEADER HTTPPROPERTY HTTPPROPERTY	sendUncompresse Method SOAPUpContent	d Y POST Y			+	
	PRIMARYURL Save	URL Return	http://msp523	29.us.oracle.com:7001	9 (	Ŧ	
	Routing Definitions   P	arameters   Connects	or Properties   Routing F	Properties			

### **Currency Rate**

Service: CURRENCYRATEBUSINESSEVENTHANDL

Service Operation: HANDLEBUSINESSEVENT10159

Navigation: Main Menu  $\rightarrow$  PeopleTools  $\rightarrow$  Integration Broker  $\rightarrow$  Integration Setup  $\rightarrow$  Services

1. From the Service Definition page, search for service – CURRENCYRATEBUSINESSEVENTHANDL and click the Service Link.

Favorites - Main Menu - > Peop	leTools 🔹 > Integration Broker 🔹 > Integr	ration Setup 🔹 Services
		Home Work
ORACLE <sup>®</sup>		
Services - Search		
The Search Criteria		
Service CU	RRENCYRATEBUSINESSEVENTHAND	Add a New Value
Services	Personalize   Find	View All   💷   🛄 First 🕢 1 of 1 论 Last
Service	Service Alias	Object Owner Description ID
CURRENCYRATEBUSINESSEVENTHANDL	CurrencyRateBusinessEventHandlerService	CURRENCYRATEBUSINESSEVENTHANDL

**2.** Click the Service Operation link to open the Service Operation.

Favorites 👻 Main Menu 👻	> PeopleTools >> Integration Broker	▼ > Integr	ation Setup	Services
ORACLE				
Services				
Service	CURRENCYRATEBUSINESSEVENTHAN		REST Service	Туре
*Description	CURRENCYRATEBUSINESSEVENTHAI			
Comments	CURRENCYRATEBUSINESSEVENTHAN VICE	DLERSEF	2	
Service Alias	CurrencyRateBusinessEventHandl			
Owner ID				
*Namespace		ctor/service	e	
Link Existing Operations	View WSDL			
Service Operations				
Service Operation				
Operation Type	τ	A	dd	
Existing Operations Operation Message Link	Personalize   Find   View All   🔄   🛅 s   💷	First	🕙 1 of 1 🕑	Last
Operation.Default Version	Description	Active	Operation Type	
HANDLEBUSINESSEVENT10	159.V1 HANDLEBUSINESSEVENT	<b>V</b>	Synch	-
Save Return to Sea	irch			Add

**3.** From the Service Operation Definition page, click the Service Operation Security link. This will open a popup window.

DRACLE		
General Handlers Routings		
Service Operatio Operation Typ	n HANDLEBUSINESSEVENT10159 De Synchronous	
*Operation Descriptio	n HANDLEBUSINESSEVENT	
Operation Commen	ts HANDLEBUSINESSEVENT	User/Password Required
		*Reg Verification
		Service Operation Security
Owner	ID 🔹	
Operation Alia	s handleBusinessEvent	Used with Think Time Methods
efault Service Operation Version		
*Version	V1	Default Active
Version Description	HANDLEBUSINESSEVENT	Routing Status
Version Comments	** DO NOT REMOVE ** Binding Style: SOAP-DOCUMENT	Any-to-Local Does not exist Local-to-Local Does not exist
R	Intime Schema Validation	Routing Actions Upon Save
	-	

**4.** From the Service Operation Web Service Access page, add Permission list – RFI\_PL\_INTEGRATION (if not available already) to WebService access with full access. Click Save.



**5.** From the Routing Definition tab, go to the Routing Definition tab and click the Routing Definition link. . [Name: ~IMPORTED~11751].

RACL									
nerat    H	landers Routings								
	Service Operation HAT	IDLEBUSINESSE	VENT10159						
	Default Version V1								
	manual and building and								
		Iser Exception							
	Note This	iser Exception	tatus is applicable only	if an outbound routing	cannot be determined. If	a valid outbound rou	ting can be determined th	en the user except	ion status on
	Note This actu	Iser Exception Luser exception s val routing will be	tatus is applicable only used.	if an outbound routing	cannot be determined. If	a valid outbound rou	ing can be determined th	en the user except	ion status on
	Note This actu Routing Name	Iner Exception Luser exception s rail routing will be	tatus is applicable only used.	if an outbound routing	cannot be determined. If	a valid outbound rou	ting can be determined th	en the user except	ion status on
Routing De	Routing Name	Iner Exception Luser exception s all routing will be	tatus is applicable only used.	if an outbound routing Add	cannot be determined. If	a valid outbound rou Personaliz	ting can be defermined th e   Find   View All   [2]   [	en the user except	of 1 🛞 Last
Routing De	Note This acts Routing Name efinitions Name	Inter Exception	tatus is applicable only used. Operation Type	if an outbound routing Add Sender Node	cannot be determined. If Receiver Node	a valid outbound rou Personaliz Direction	ting can be defermined th e   Find   View All ( 전)   전 Status	en the user except	of 1 <sup>(A)</sup> Last
Routing De elected	Routing Name efrictions Isame -IMPORTED-11751	Inser Exception In user exception is all routing will be Version V1	tatus is applicable only used Operation Type Synch	f an outbound routing Add Sender Node PSFT_EP	cannot be determined. If Receiver Node WSDL_NODE	a valid outbound rou Personaliz Direction Outbound	ting can be determined th a   Find   Wew All   (2)   1 Status Active	en the user except First 5/1 Results	of 1 <sup>(1)</sup> Last

**6.** From the IB Routing Definitions page, click the Connector Properties tab and change the Primary URL value based on the Target system. Primary URL is to point to the RFI service URL that needs to be invoked from PeopleSoft. Click Save.

		IB Routing Definit	ions					
General Handlers Routings		Routing Definitions	Parameters Conn	ector Properties	Routing Properties			
Service Operation HANDLEBUSINESS Default Version V1 User Exception Note: This user exception actual routing will be	EVENT10159 status is applicable only if an o used.	Re Service Opera	e Operation HANDLEB tion Version V1 Gateway ID LOCAL	D-11751 USINESSEVENT101	59  a,  a,			
Routing Name	Add	*De	elivery Mode Guarantee	d Delivery	•			
Routing Definitions Selected Name Version	Operation Type 5	Connector Properties	Personalize	Find   View All   🕮	First 🗄 1-5 o	15	i La	ast
-IMPORTED-11751 V1	Synch P	Property ID	Property Name	Value				
F and a second second second second	The local sector of the lo	HEADER	Content-Type	beat/orni		9,1	+	-
Inactivate Selected Routings Adv	ste Selected Routings	HEADER	sendUncompressed	Y		0	+	-
Save Return to Service		HTTPPROPERTY	Method	POST		0	+	-
eneral i Handlers i Routings		HTTPPROPERTY	SOAPUpContent	Y		a	+	-
		PRIMARYLIRI	LIRI	bHo Dimar 522	29 us oracle com 7003	0	+	

### **Providing Web Service – GL Account Validation**

PeopleSoft should provide GL Account Validation WSDL to third party system to consume. It needs to be generated because the WSDL is not delivered by default.

**Navigation:** Main Menu  $\rightarrow$  PeopleTools  $\rightarrow$  Integration Broker  $\rightarrow$  Integration Setup  $\rightarrow$  Services

Service Name: COMBO\_CF\_EDIT\_REQUEST

Service Operation Name: CF\_EDIT\_REQUEST

### Prerequisite to Provide Web Service

1. Verify the Request and Response messages have schemas.

**a.** Open the service definition: COMBO\_CF\_EDIT\_REQUEST.

**Navigation:** Main Menu  $\rightarrow$  PeopleTools  $\rightarrow$  Integration Broker  $\rightarrow$  Integration Setup  $\rightarrow$  Services

Favorites 👻 🛛 Main Menu 👻	> PeopleTools 💌 > Ir	tegration Broker 🔹 Integrat	ion Setup 🔹 Services
			Home W
DRACLE <sup>®</sup>			
Services - Search			
Search Criteria			
Soni		PEQUEST	Add a New Value
Servi		_KEQUEST	Add a New Value
	EST SERVICE	•	
Search			
Services		Personalize   Find   V	ïew All   🖾   🛅 🛛 First 🕙 1 of 1 🕑 Last
Service	Service Alias	Object Owner ID	Description
COMBO_CF_EDIT_REQUEST	CFComboEdit	General Ledger	CF Combination Edit Request

#### **b.** Click the Service - COMBO\_CF\_EDIT\_REQUEST link.

Favorites - Main Menu - PeopleTools - Integration	n Broker 🐤 Integration Setup 🌗 Services
ORACLE <sup>®</sup>	
Services	
Service COMBO_CF_EDIT_REQUEST	REST Service Type
*Description CF Combination Edit Request	
Comments Synchronous request for ChartField ( editing. Header record COMBO_CF_MSG_H ( the first 3 fields. Detail record COMBO_CF_MSG_D include all fields	combination only include . You can Z
Service Alias CFComboEdit	
Owner ID General Ledger	
*Namespace http://xmlns.oracle.com/Enterprise/FS	CM/service/COM
Link Existing Operations View WSDL Provide W	eb Service Generate SOAP Template
Service Operations	
Service Operation	
Operation Type	Add
Existing Operations         Personalize   Find   View All             Operation         Message Links         IIII)	계   🔚 🛛 First 🕢 1 of 1 🔍 Last
Operation.Default Version Description	Active Operation Type
COMBO_CF_EDIT_REQUEST.VERSION_1 CF Combination Edit Reque	est 🗹 Synch 🖃
Save Return to Search	Add

78 Oracle Retail Financial Integration for Oracle Retail Merchandise Operations Management and Oracle E-Business Suite or PeopleSoft Financials

DRACLE	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
Services		
Service	COMBO CF EDIT REQUEST	REST Service Type
*Description	CF Combination Edit Request	
Comments	Synchronous request for ChartField combination editing. Header record COMBO_CF_MSG_H only include the first 3 fields. Detail record COMBO_CF_MSG_D include all fields. You can	4
Service Alias	CFComboEdit	
Owner ID	General Ledger 🔹	
"Namespace	http://xmlns.oracle.com/Enterprise/FSCM/service/CC	DM
ink Existing Operations	View WSDL Provide Web Service	Generate SOAP Template
Service Operations		
Service Operation		
Operation Type	•	Add
Existing Operations	Personalize   Find   View All   🗇   🛄 First	t 🕑 1 of 1 🕑 Last
Operation Message Lin	ks 📖	
Request Message.Version	Response Message.Version	
COMBO_CF_EDIT_REQUEST.VI	ERSION_1 COMBO_CF_EDIT_REPLY.VER	SION_1

**c.** Click the Message Links tab.

**d.** Click the Request Message - **COMBO\_CF\_EDIT\_REQUEST.VERSION\_1** link. It will open a popup window.

Favorites - Main Menu	PeopleTools Integration Broker Integration	Setup Services
Services		
Service	COMBO_CF_EDIT_REQUEST	rvice Type
*Description	CF Combination Edit Request	
Comments	Synchronous request for ChartField combination editing. Header record COMBO_CF_MSG_H only include the first 3 fields. Detail record COMBO_CF_MSG_D include all fields. You can	
Service Alias	CFComboEdit	
Owner ID	General Ledger	
"Namespace	http://xmlns.oracle.com/Enterprise/FSCM/service/COM	
ink Existing Operations	View WSDL Provide Web Service Generat	e SOAP Template
Service Operations		
Service Operation		
Operation Type	▼ Add	
Existing Operations	Personalize   Find   View All   🖾   🕮 First 🚯 1 of	Last
Operation Message Lin	ks 🖽	
Request Message Version	Response Message.Version	
	COURS OF FOR DESIGNAL	

**e.** Verify the Schema Exist option is yes. If the value is No, save the message definition without any changes. It will generate the schema. A confirmation message will be displayed.

Favorites - Main Me	nu 🔹 > PeopleTools 🔹 Integration B	roker -> Integration Setup -> Services
ORACLE <sup>.</sup>		
Message Definition	Schema	
Status: Warning: Message:	Message cannot be changed. Mess Structure references work records. COMBO_CF_EDIT_REPLY	age used in exported WSDL. Explanation Schema Exists: Yes Part Message
Version: Description:	VERSION_1 CF Combination Edit Reply	<ul> <li>Exclude Description in Schema</li> <li>Single Level 0 Row</li> <li>Include Namespace</li> </ul>
Owner ID: Comments:	Synchronous reply for ChartField combination editing request. Header record COMBO_CF_MSG_H	Suppress Empty XML Tags      Message Type     Rowset-based
Service Operation Referen View Records Only Left   Right	excludes the first 3 fields. Detail record	O Nonrowset-based     Ocontainer  Add Record to Root
COMBO_CF_EDIT_R COMBO_CF_I COMBO_CF_I Save Save Return to Search	EPLY ISG_H ave As	
message Definition   Schema	1	

**2.** To provide the Web Service, the Include Namespace option needs to be enabled at the Service Operation level.

**Note:** For more details refer to E-IB: Service Response Message Namespace Does Not Match Description in WSDL (Doc ID 1147654.1). **a.** Open Service and click the Response Message link-COMBO\_CF\_EDIT\_REPLY.VERSION\_1

Favorites 👻 🛛 Main Menu 👻	PeopleTools > Inte	gration Broker 🔹 Integration Setup	> Services
ORACLE <sup>®</sup>			Home V
Services - Search			
Search Criteria			
Servi	ce COMBO	Add a	New Value
Search			
Services		Personalize   Find   View All   🔄	First 🕚 1 of 1 🕑 Last
Service	Service Alias	Object Owner ID	Description
COMBO_CF_EDIT_REQUEST	CFComboEdit	General Ledger	CF Combination Edit Request

**b.** Click the Service link – COMBO\_CF\_EDIT\_REQUEST.

Favorites 🕶	Main Menu 👻	> PeopleTools *> Integration Broker *> Integration Setup *> Services
ORACI	LE.	

Services

Service	COMBO_CF_EDIT	_REQUEST	REST Service	Туре
*Description	CF Combination Ed	lit Request		
Comments	Synchronous reque editing. Header record COM the first 3 fields. De COMBO_CF_MSG_	est for ChartField combin IBO_CF_MSG_H only in etail record D include all fields. You	clude	
Service Alias	CFComboEdit			
Owner ID	General Ledger	¥		
*Namespace	http://xmlns.oracle.c	com/Enterprise/FSCM/se	rvice/CO	
Link Existing Operations	View WSDL	Provide Web Serv	ice Generate SO/	\P Template
Service Operations				
Service Operation				
Operation Type		T	Add	
Existing Operations	Personalize   Fir	nd   View All   💷   🛅	First 🕙 1 of 1 🕑	Last
Operation Message Link	s 💷			
Request Message.Version		Response Message.Ve	rsion	
COMBO_CF_EDIT_REQUEST	.VERSION_1	COMBO_CF_EDIT_RE	PLY.VERSION_1	-
Save Return to Sea	arch			Add

**c.** Check the Include Namespace option and click Save. If the Include Namespace option is disabled with an inconsistency, a few settings need to be completed [For more details refer

 $http://docs.oracle.com/cd/E38689\_01/pt853pbr0/eng/pt/tibr/task\_ResolvingInconsistencies in Exported WSDL and WADL Documents-067f83.html$ 

essage Definition	Schema	
Warning:	Structure references work records.	Explanation
Message:	COMBO_CF_EDIT_REPLY	Schema Exists: Yes
Version:	VERSION 1	Part Message
		Exclude Description in Schema
Description:	CF Combination Edit Reply	Single Level 0 Row
Owner ID:	General Ledger	Suppress Empty XML Tags
Comments:	Synchronous reply for ChartField combination editing request. Header record COMBO_CF_MSG_H excludes the first 3 fields. Detail record	Message Type Rowset-based
ervice Operation Refer	ences	Container
ew Records Only	View Included Fields Only	Add Record to Ro
ft Right		

**d.** Click the Service Admin link on top of this window. This will open a window, which has the clear wsdl export status link. After doing this, the Include Namespace option will be enabled on the Service – Message Definition page.

IK Home	= 17 Services	Messages	X Messager		Resolving Inconsistenci	ies in Exported	-
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Status:	Exported WSDL flag inconsistency	detected. WSDI does not exist					
Warning:	Structure references work record	s. Explanation	Exported WSDL Inconsistency				
thessage	COMBO OF EDIT REPLY	Schema Exists: No					
Marsion	VERSION 4	Part Message					
	tertoren _ t	Exclude Description in Schema					
Description:	CF Combination Edit Reply	Single Level 0 Row					
Owner ID:	General Ledger	Suppress Emply XMI Teas					
Comments:	Synchronous reply for ChartField	· Message Turns					
	combination editing request. Header record COMBO, CE, MSG, H	* B Desenat based					
	excludes the first 3 fields. Detail rec	ord III O Nonrowset-based					
rvice Operation Refere	inces	Container					
ew Records Only	View Included Fields (	Add Record to Root					
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COMBO_CF_EDIT_F	MSG H						
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etum to Search							
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Lessages - Mozilla Fire [de: yew Higtory (@ msy3252 us ees Aost Visited ♀ F- Rei Main M RACLE ssage Definition Status: Varning:	fox Rockmarks Jools Lelp	Messages      Messages      Model Elli (MESSAGE, BUIL DER, GBL Prayer-B      Seck Re. ODD11g in a Service Profes      Emported WSDL Inconsistencies      Exported WSDL Inconsistencies      Massage: Sarvice operations flagged as h         repositor, if this is on the case	x Message Message QUILDERActions USAPMS ase DTT - OracL. C Developing a Kno Developing as pontation of the second second metada is inconsistent. This error is	WERLVE ☆ ♥ ♂ MSXML - 11 Home WonBst 20, to exist in the caused by impediate		uttonika. P uttom Kn Add to Favoritea New Window   Pe	× + + Sit
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### **Provide Web Service**

**Navigation:** Main Menu  $\rightarrow$  PeopleTools  $\rightarrow$  Integration Broker  $\rightarrow$  Web Service  $\rightarrow$  Provide Web Service

1. Open COMBO\_CF\_EDIT\_REQUEST and click Next.

Favorites 👻 🛛 Main Menu 👻 > Peo	pleTools >> Integration Broker >> Web Services >> Provide Web Service
ORACLE	
Provide Web Service Wizerd	Stop 1 of 4
	Step 1 01 4
	Next >
Select Services	
Enter search criteria and click Search. S	elect one or more services you would like to provide.
Search Criteria	
Service Name beg	gins with ▼ COMBO_CF
Description beg	jins with 🔻
Object Owner ID equ	ials T
	REST Service
	Search
Search Results	Find   View All   🖾 First 🕚 1 of 1 🕑 Last
Service	Description
COMBO_CF_EDIT_REQUEST	CF Combination Edit Request
Select All 🔲 Clear All	

2. Select the Service Operation - COMBO\_CF\_EDIT\_REQUEST.VERSION\_1 and click Next.

Provide Web Service Wizard			Step 2 of 4		
1-2-3-8		< Previo	us Next>		
Select Service Operations					
Select one or more operations for each service.					
Service COMBO_CF_EDIT_REQUEST		Description C	F Combination Edit Request		
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Use Secure Target Location	G	enerate WSDL 2.0			
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Service Operation	Description	Operation Type	Request Message	Response Message	Fault Message
COMBO_CF_EDIT_REQUEST.VERSION_1	CF Combination Edit Request	Synchronous	COMBO_CF_EDIT_REQUEST.VERSION_1	COMBO_CF_EDIT_REPLY.VERSION_	1.
Select All					

#### 3. View WSDL and click Next.

Favorites - Main Menu -	> PeopleTools >> Integration Br	roker 🔹	Web Services > Provide Web Servi
ORACLE <sup>®</sup>			
Provide Web Service Wizar	d		Step 3 of 4
1-2-3-4		< Pi	revious Next >
View WSDL			
View the generated WSDL for each	ch service.		
Selected Services		2	First 🕙 1 of 1 🕑 Last
Service	Description		
COMBO_CF_EDIT_REQUEST	CF Combination Edit Request		View WSDL

### **4.** Click **Finish** and the WSDL will be generated.

Favorites 👻	Main Menu 👻	> PeopleTools	Integration	Broker >>	Web Services 🔻	> Provide Web	Service
ORACI	.e <sup>.</sup>						
Provide W	eb Service Wiz	ard			Step 4 of 4		
1-2-3				< Previous	s Finish	]	

#### Specify Publishing Options

The WSDL for the selected services will be published to the PeopleSoft WSDL Repository.

Publish to UDDI

WSDL Repository

5. Consume the WSDL or make the changes as required in third party system.



For example:

http://hostname:portno/PSIGW/PeopleSoftServiceListeningConnector/COMBO\_C F\_EDIT\_REQUEST.1.wsdl

### **Providing Web Service – Drill Forward Service**

PeopleSoft should provide Drill Forward Serivice WSDL to third party system to consume. It needs to be generated because the WSDL is not delivered by default.

# Validate that you are able to look up DrillForwardBackURLService is available by following the below menu navigation

**Navigation:** Main Menu  $\rightarrow$  PeopleTools  $\rightarrow$  Integration Broker  $\rightarrow$  Integration Setup  $\rightarrow$  Services

Lookup for "**DRILLBACKFORWARDURLSERVICE**". Ensure service is configured properly and "Primary URL" is pointed to correct RFI target service.

**Note:** Refer to the "PeopleSoft service is not able to deliver messages to RFI" section under Appendix – Troubleshooting PeopleSoft Services for detailed navigation.

If above mentioned service configuration validations fails, then follow the below steps to configure the DrillBackForwardURLService in PeopleSoft else skip the below steps.

### **Provide Web Service**

**Navigation:** Main Menu  $\rightarrow$  PeopleTools  $\rightarrow$  Integration Broker  $\rightarrow$  Web Service  $\rightarrow$  Provide Web Service

1. Open RFI\_INV\_DRILLFORWARD\_SERVICE and click Next.

Favori	tes 👻 👘 Main Menu 👻 🔅	PeopleTo	ools 🔹 Integration Broker 🔹 Web Services 🔹 Provide Web Service
90			
Provid	e Web Service Wizard		Step 1 of 4
1-	2-3-4		Next >
Seleo	ct Services		
Enter s	earch criteria and click Searc	ch. Select on	one or more services you would like to provide.
Caara	h Oritorio		
Searc	in Criteria		
	Service Name	begins with	ith TRFI_INV_DRILLFORWARD_SERVICE
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	Service		Description
	RFI_INV_DRILLFORWARD_	SERVICE I	Invoice Voucher IDs

**2.** Select the Service Operation - RFIINVOICEDRILLFORWARDSERVICE.VERSION\_1 and click **Next**.

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Provide Web Service Wizard		Step 2 of 4		
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Select Service Operations				
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Use Secure Target Location	Generate	WSDL 2.0		
Operations			Find   View All   💷	First 🛞 1 of 1 🛞 Last
Service Operation	Description Operation Type	Request Message	Response Message	Fault Message
RFINVOICEDRILLFORWARDSERVICE.VERSION_1	Invoice - Voucher ID Synchrono	us RFI_INV_DRILLFORWARD_REQUEST.VERSION_1	RFI_INV_DRILLFORWARD_R	ESPONSE.VERSION_1
Select All				

#### **3.** View WSDL and click **Next**.

Favorites - Main Menu - > Peo	pleTools > Integration	Broker 🔹 Web S	ervices 🔹 Pro	vide Web Se
ORACLE <sup>®</sup>				
Provide Web Service Wizard		St	ep 3 of 4	
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View WSDL				
View the generated WSDL for each serv	ice.			
Selected Services		First 🕢	1 of 1 🛞 Last	
Service	Description	1 1100	Luor	
RFI_INV_DRILLFORWARD_SERVICE	Invoice Voucher IDs		View WSDL	

#### 4. Click Finish. The WSDL is generated.

Favorites -	Main Menu 👻 > PeopleTools 💌 > Integrati	on Broker -> Web Services -> Provide \	Neb Service
ORACL	.€'		
Provide Web	o Service Wizard	Step 4 of 4	
1-2-3	)-4	< Previous Finish	
Specify P	ublishing Options		
The WSDL for	the selected services will be published to the Peop	pleSoft WSDL Repository.	
■ Publish 1 ✓ WSDL Re	to UDDI spository		

#### 5. Consume the WSDL or make the changes as required in RFI.

Favorites * Main Menu * > PeopleTools *> Integration Broker *> Web Services *> Provide Web Service
ORACLE <sup>®</sup>
Provide Web Service Wizard
Confirm Results
View the WSDL Generation Log to confirm the results of the wizard.
WSDL Generation Log:
Service: RFI_INV_DRILLFORWARD_SERVICE has been exported.
Inserted WSDL: RFI_INV_DRILLFORWARD_SERVICE.1 in the repository
Generated WSDL URL: http://msp52229.us.oracle.com:7777/PSIGW/PeopleSoftServiceListeningConnector/RFLINV_D RILLFORWARD_SERVICE.1.wsd
Provide Another Service Generate SOAP Template

# For example:

http://hostname:portno/PSIGW/PeopleSoftServiceListeningConnector/RFI\_INV\_DRIL LFORWARD\_SERVICE.1.wsdl

# **ODI Setup Tasks**

### Prerequisite

It is assumed Oracle Data Integrator has already been configured with the appropriate details for your installation. This ODI installation location is referred to as ODI\_INSTALL\_DIR for the remainder of this chapter.

### **Copy ODI-Specific Files**

- 1. Log in to the UNIX server as a user who has sufficient access to run sqlplus from the Oracle Database installation.
- 2. Create the retail-financial-integration-solution in <INSTALL\_DIR> folder.
- **3.** From the ORFI server, copy the <INSTALL\_DIR>/retail-financial-integrationsolution/etl-based-integration folder to <INSTALL\_DIR>/retail-financialintegration-solution folder on the ODI server.

**Note:** All references to the ODI server are indicative of RfiBulkServer.

### **Create Tablespaces**

Before you run the ODI Master and Work database user, make sure that the following tablespace has been created in the database: ODI\_DATA. Below is a sample tablespace creation statement for this tablespace. Oracle Retail recommends the use of locally managed tablespaces with automatic extent and segment space management.

**Note:** These tablespaces are not sized for a production environment.

```
CREATE TABLESPACE ODI_DATA DATAFILE

'<datafile_path>/odi_data01.dbf' SIZE 500M

AUTOEXTEND ON NEXT 100M MAXSIZE 2000M

EXTENT MANAGEMENT LOCAL

SEGMENT SPACE MANAGEMENT AUTO

;
```

# Create the ODI Master Repository Database User

You must create an ODI Master Repository schema using a *creat\_user.sql* that comes with installer distribution. This will be used to execute ODI Interface at run time. This create\_user.sql script can be used for this:

 $\label{eq:sinstall_DIR/retail-financial-integration-solution/etl-based-integration/retail-to-ebsfin-etl-flows/setup-data/ddl/create_user.sql$ 

The script takes three arguments on the command line in sqlplus: username, password, and ODI Master tablespace.

**Example:** SQL> @create\_user.sql <ODI Master Schema> <ODI Master Schema Password> <ODI Master tablespace name>

Review this script and run it as a user with adequate permissions, such as SYSTEM.

# **Create the ODI Work Repository Database User**

You must create an ODI Work Repository schema using a *creat\_user.sql* that is included with the installer distribution. This will be used to execute ODI Interface at run time. This create\_user.sql script can be used for this:

 $INSTALL_DIR/\ retail-financial-integration-solution\service-based-integration\install\setup-data\ddl\ create\_user.sql$ 

Or

The script takes three arguments on the command line in sqlplus: username, password, and ODI Work tablespace.

**Example:** SQL> @create\_user.sql <ODI Work Schema> <ODI Work Schema Password> <ODI Work tablespace name>

Review this script and run it as a user with adequate permissions, such as SYSTEM.

# **ODI – Set Up Master Repository and Work Repository**

**Note:** If you have not had a master and work repository created, you need to create it beforehand as described in the Oracle Data Integrator administrator guide or follow the steps given below.

# Validation – Master Repository and Work Repository Schema creation

Run the below SQL. This should return 2 records each with name of the ODI Master & ODI Work repository schema names given in the previous two steps. Proceed further only if query gives you two records with schema names provided by you in the previous steps. If not ensure to successfully execute above two steps with help of DBA :-

SQL> select \* from all\_users where username in (<ODI Work Schema>, <ODI Master Schema > ); (Please replace <ODI Work Schema> & <ODI Master Schema> with the names given while creating Master and Work repository schema)

# **Create Master Repository**

Prerequisite:

 Make sure database schemas for Master and Work Repositories are present in the ODI database.

**Note:** These schema creation steps are done as part of ODI setup taks in the current chapter 7.

 Make sure the RFI\_ODI\_TEMP schema exists in the E-Business Suite or PeopleSoft database(Based on your integration financials application).

**Note:** These schema creation steps are done as part of "Create the ODI Staging Database User" in chapter 5.

• Make sure the ORFI infrastructure database setup is completed.

**Note:** These schema creation steps are done as part of "Create the ORFI Database User" in chapter 3.

 Give database administrator privileges to the schema in the E-Business Suite OR PeopleSoft database depending on which is your integrating Financials system

Use the following procedure to create the Master Repository:

**1.** Launch Oracle Data Integrator (ODI) Studio to create a Master Repository:

Click File→New and select "Master Repository Creation Wizard" and click OK.

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- 2. Enter the Master Repository Database connection details and click Next.
  - Database Connection Enter valid Master Repository schema details.

**Note:** In JDBC url field, use the OdiMasterDataSource/ jdbcUrl entered in rfi-deployment-env-info.json file. You have to enter sysdba credentials in DBA User and DBA Password fields.

• Repository Configuration – Enter any ID other than 804 or 805 in the Id field.

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**3.** Test your credentials information using the **Test Connection** button. If you are successful, click **OK** in the Information popup and then click **Next**.

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4. Enter *<supervisor password>* and click Next.

**Note:** This password will be used in further installation steps, so keep a record of it.

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#### 5. Click Finish.

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### 6. Click OK.

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	Master repository greation was successful. To can now connect to the master repository and create a nock repository in the topology forngator, under the Repositories accorden.
	Build Projects Operate Integration Jobs
	What's New   Release Notes   Samples   Discussion Forum   Books and Training   Online Resources

### **Create Work Repository**

Use the following procedure to create the Work Repository:

- 1. Select the ODI Menu→Connect option to log in to the Master Repository in Oracle Data Integrator (ODI) Studio to create a Work Repository.
- **2.** Create Master Repository login credentials by selecting the + button from the Oracle Data Integrator Login dialog.

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- **3.** Update the Repository Connection Information as below:
  - **a.** Oracle Data Integrator Connection:
    - Login Name: <Login Name>
    - User: <Enter "SUPERVISOR" in this field>
    - Password: <supervisor password>

**Note:** See ODI documentation for information on users with the correct (supervisor level) permissions. The SUPERVISOR user is created by ODI and has the correct permissions by default.

- **b.** Database Connection (Master Repository):
  - Enter Master Repository database credetionals for User and Password fields.
  - Select "Oracle JDBC Driver" from the drop-down list for Driver List field.
  - Enter Url (use the OdiMasterDataSource/ jdbcUrl entered in rfi-deploymentenv-info.json file) field asshown below:

jdbc:oracle:thin:@<host>:<port>:<sid>

- c. Work Repository:
  - Select the Master Repository Only option.

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		Password:				
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		User:	rfi_od_mst_1			
		Password:				
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**4.** Test your credentials information using the **Test** button. If you are successful then click **OK**.

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5. Select **OK** from Oracle Data Integrator Login dialog.

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**6.** From the Topology tab, select Repositories and then right-click on the Work Repositories. Select the New Work Repository option.

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- 7. Enter the work repository database credentials details.
- **8.** Test your credentials information using the **Test** button. If you are successful then click **Next**.

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			-		(100) Berty (10)	Cancel	

- 9. Update ODI Work Repository properties:
  - **a.** Enter any ID other than 804 or 805 (For EBS integration) / 501 or 502 (For PeopleSoft Integration) in the Id field.
  - **b.** Enter Name and Password (should be SUPERVISOR user and *<supervisor password>*) for work repository and click **Finish**.

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**10.** Click **Yes** to create an ODI login for the work repository.

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**11.** Enter the ODI work repository login name in the dialog.

**12.** Select the ODI Menu $\rightarrow$ Disconnect option to connect to the Work Repository.

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- **13.** Select the ODI Menu $\rightarrow$ Connect option.
  - **a.** From the ODI Login popup, select Login Name from dropdown list (select the name you created in step7).
  - **b.** Enter user as "SUPERVISOR".
  - c. Enter <*supervisor password*>.
  - **d.** Select the Edit option.

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**14.** Validate the Repository Connection Information:

- a. Oracle Data Integrator Connection
  - Login Name: <work repository login name>
  - User: <"SUPERVISOR">
  - Password: < supervisor password>
- b. Database Connection (Master Repository)
  - Validate the Master Repository database details.
- c. Work Repository
  - Select the Work Repository option and select the repository you just created.

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**15.** Test your credentials information using the **Test** button. If iyou are successful then click **OK**.

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16. Select OK from Oracle Data Integrator Login dialog.

# **Import ODI Interfaces**

Use the following procedure to import ODI interfaces using Smart Import:

- **1.** Log in to the Work Repository in Oracle Data Integrator (ODI) Studio to import all the interfaces:
- **2.** Select the Import option from the Designer tab.

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3. Select the Smart Import option on the Import Selection dialog and click OK.



4. If integration is with EBS, then

Select SmartExport\_RMS\_EBS\_Account\_Entry.xml file in the File Selection Field and click **Next**. This file can be found in \$INSTALL\_DIR/retail-financial-integration-solution/etl-based-integration/retail-to-ebsfin-etl-flows/retail-to-ebsfin-odi-project/WorkRepository/.

If integration is with PeopleSoft, then

Select SmartExport\_RMS\_PSFT\_Account\_Entry.xml file in the File Selection Field and click **Next**. This file can be found in \$INSTALL\_DIR/retail-financial-integration-solution/etl-based-integration/retail-to-psftfin-etl-flows/retail-to-psftfin-odi-project/WorkRepository/.

Smart Import - Step 1 of 3	X
File Selection	
File Selection       This wizard will guide you through the process of importing objects into Oracle Data Integrator. To replay a previous Smart Import wizard execution select a Response File to preset all fields.         File Selection:       Summary         Summary       Di-project/WorkRepository/SmartExport_RMS_EBS_Account_Entry.xml         Response file:       Display a previous select a Response File to preset all fields.	
Help <a>Back</a> Einish Ca	ncel

## 5. Click Next.

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Import Actions				
File Selection	🖉 No Issues			
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	Issue Type	Description	Action	Fix

**104** Oracle Retail Financial Integration for Oracle Retail Merchandise Operations Management and Oracle E-Business Suite or PeopleSoft Financials

## 6. Click Finish.

🔩 Smart Import - Step 3 of	3
Summary	
File Selection     Transit Actions	Select Finish to run the Smart Import. Select Save Response File to save a Smart Import execution
Summary	No Issues
	Save Response File D:\odi_delete_stage\SmartImportResponse.xml
Help	< <u>B</u> ack <u>N</u> ext > <u>Finish</u> Cancel

**7.** Similarly, perform Smart Import for the other ODI Interfaces listed below based on whether integrating financial applications is EBS or PeopleSoft

If EBS then,

- SmartExport\_ReIM\_EBS\_Account\_Entry.xml
- SmartExport\_ReIM\_EBS\_Invoice\_Entry.xml

If PeopleSoft then

- SmartExport\_ReIM\_PSFT\_Account\_Entry.xml
- SmartExport\_ReIM\_PSFT\_Invoice\_Entry.xml

# **Update Connection Information**

For EBS Integration:

In Topology, under Physical Architecture, Technologies  $\rightarrow$  Oracle, update the Database Connection details in the Physical Server and Physical schema as shown in the table below.

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Physical Server (Data Server)			Physical Schema		
Name	Definition > Connection	JDBC	Schema (Schema)	Schema (Work Schema)	
EBIZ DS	User: <apps name="" schema=""> Password: <apps password="" schema=""></apps></apps>	Update EBS JDBCUrl	APPS Schema	RFI_ODI_TEMP Schema	
EBIZ_AP	User: <ap name="" schema=""> Password: <ap password="" schema=""></ap></ap>	Update EBS JDBCUrl	AP Schema	RFI_ODI_TEMP Schema	
RETAIL DS	User: <rms name="" schema="" user=""> Password: <rms schema<br="" user="">Password&gt;</rms></rms>	Update RMS JDBCUrl	RMS Schema Owner	RMS Schema Owner	
RFI_LOGS	User: <orfi name="" schema=""> Password: <orfi password="" schema=""></orfi></orfi>	Update ORFI JDBCUrl	ORFI Schema	ORFI Schema	
RFI_RETAIL_X REF	User: <orfi name="" schema=""> Password: <orfi password="" schema=""></orfi></orfi>	Update ORFI JDBCUrl	ORFI Schema	ORFI Schema	

- 1. For EBIZ DS, EBIZ\_AP, provide the E-Business Suite database connection.
- **2.** For RETAIL DS, provide the Retail database connection.
- **3.** For RFI\_LOGS, RFI\_RETAIL\_XREF provide the ORFI Infrastructure database connection.
- **4.** Click **Test Connection** on the physical server to verify that the connection information is correct.
- **5.** In the physical schema, verify that the context (Global and RETL\_TO\_EBIZ) is mapped to the logical schemas as shown in the table below. If the mapping is missing, map the logical schemas as shown in the table below.

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Physical Schema	Logical Schema
EBIZ DS.APPS	EBIZ_GL
EBIZ_AP.AP	EBIZ_AP
RETAIL DS.RMS	Retail
RFI_LOGS.RFI	RFI_LOGS
RFI_RETAIL_XREF.RFI	RFI_RETAIL_XREF

For PeopleSoft Integration:-

In Topology, under Physical Architecture, Technologies  $\rightarrow$  Oracle, update the Database Connection details in the Physical Server and Physical schema as shown in the table below.

Physical Server (Data Server)			Physical Schema	
Name	Definition > Connection	JDBC	Schema (Schema)	Schema (Work Schema)
PEOPLESOFT DS	User: <apps name="" schema=""> Password: <apps password="" schema=""></apps></apps>	Update PeopleSoft JDBCUrl	SYADM Schema	RFI_ODI_TEMP Schema
RETAIL DS	User: <rms name="" schema="" user=""> Password: <rms schema<br="" user="">Password&gt;</rms></rms>	Update RMS JDBCUrl	RMS Schema Owner	RMS Schema Owner
RFI_LOGS	User: <orfi name="" schema=""> Password: <orfi password="" schema=""></orfi></orfi>	Update ORFI JDBCUrl	ORFI Schema	ORFI Schema
RFI_RETAIL_X REF	User: <orfi name="" schema=""> Password: <orfi password="" schema=""></orfi></orfi>	Update ORFI JDBCUrl	ORFI Schema	ORFI Schema

- 1. For PEOPLESOFT DS, provide the PeopleSoft Suite database connection.
- **2.** For RETAIL DS, provide the Retail database connection.
- **3.** For RFI\_LOGS, RFI\_RETAIL\_XREF provide the ORFI Infrastructure database connection.
- **4.** Click **Test Connection** on the physical server to verify that the connection information is correct.

**5.** In the physical schema, verify that the context (Global and RETL\_TO\_PSFT) is mapped to the logical schemas as shown in the table below. If the mapping is missing, map the logical schemas as shown in the table below.

Physical Schema	Logical Schema	
PEPOPLESOFT DS.SYSADM	PeopleSoft	
RETAIL DS.RMS01	Retail	
RFI_LOGS.RFI01	RFI_LOGS	
RFI_RETAIL_XREF.RFI01	RFI_RETAIL_XREF	

# **Scenario Test**

In this section, you need to do similar things to the three packages in ORFI. In this guide we only use the Migrate RMS to EBIZ Acc Entry Package / Migrate RMS to PSFT Acc Entry Package, for example.

## Scenario

In ODI Topology, navigate to Physical Architecture  $\rightarrow$  Agents. Make sure the RFI\_AGENT is available and default to port 20910



## **Run Agent Scheduler**

The following scripts are located in <ODI\_INSTALL\_DIR>/oracledi/agent/bin/.

You need to configure odiparams.sh script to schedule an ODI agent. This odiparams.sh script is located in <ODI\_INSTALL\_DIR>/oracledi/agent/bin/odiparams.sh

1. You need to run encode.sh script to generate your password in the encoded format and this is used in odiparams.sh script.

The script takes one argument on the command line: password.

Example:	prompt\$	encode «	<password></password>
-Autopic.	ρισπριφ	cheoue -	<pre>&gt;pubble01u&gt;</pre>

- 2. sh encode.sh <password>
- **3.** Modify odiparams file. Set the following linesas indicated in order to connect them to the work repository. For example:

In Windows OS (odiparams.bat),

set ODI\_MASTER\_DRIVER=oracl.jdbc.driver.OracleDriver

set ODI\_MASTER\_URL=<JDBC Connection URL to ODI>

set ODI\_MASTER\_USER=<ODI Master Schema>

set ODI\_MASTER\_ENCODED\_PASS=<ODI Master Schema password>

set ODI\_SUPERVISOR=SUPERVISOR

set ODI\_SUPERVISOR\_ENCODED\_PASS=<ODI SUPERVISOR password>

set ODI\_SECU\_WORK\_REP=<ODI Work Repository name>

#### In Linux/Unix OS (odiparams.sh),

ODI\_MASTER\_DRIVER=oracle.jdbc.driver.OracleDriver

- ODI\_MASTER\_URL=<JDBC Connection URL to ODI>
- ODI\_MASTER\_USER=<ODI Master Schema>
- ODI\_MASTER\_ENCODED\_PASS=<ODI Master Schema password>
- ODI\_SUPERVISOR=SUPERVISOR

ODI\_SUPERVISOR\_ENCODED\_PASS=<ODI SUPERVISOR password>

- ODI\_SECU\_WORK\_REP=<ODI Work Repository name>
- 4. Use the agent.sh script to start an agent.

#### Example:

prompt\$ agent "-NAME=<physical agent name>"

prompt\$ agent "-NAME=RFI\_AGENT"

sh agent.sh "-NAME=<physical agent name>

You should see a message that the agent is started successfully.

**5.** Test the agent to ensure it is up and running. Click on the Test portion of the menu (View Schedule, Update Schedule, Test, and Generate Server Template). Agent Test Successful message should be displayed.

# **Generate Scheduler**

- In ODI designer, navigate to Load Plans and Scenarios, and select scenario MIGRATE\_RMS\_TO\_EBIZ\_ACC\_ENTRY\_PACKAGE if integrating with EBS. While integrating with PeopleSoft then MIGRATE\_RMS\_TO\_PSFT\_ACC\_ENTRY\_PACKAGE
- **2.** Select Existing Scheduling. Make sure the context is set to RETL\_TO\_EBIZ and the agent is selected as RFI\_AGENT
- **3.** You need to select an Execution option based on the ORFI requirement and then save the changes.

39	- <u>1</u>	Definition		
Projects	- III	Execution Cycle	Scheduling [Scenario: MIGRATE_RMS_TO_EBIZ_ACC_ENTRY_PACKAGE / 001]	
Models	-	Variables	Context: RETL_TO_EBIZ V Agent: RFL_AGENT V	
- Load Plans and Scenarios	68-1	Privleges	tog tevel: S	
Load Plans and Schwarios		Version		

- 4. Similarly, schedule the scenarios for the other ODI Interfaces
- LOAD\_REIM\_TO\_EBS\_INVOICE\_ENTRY\_PACKAGE if integrating with EBS. While integrating with PeopleSoft then REIM\_TO\_EBS\_ACCOUNT\_ENTRY\_DATA\_MIGRATION if integrating with EBS. While integrating with PeopleSoft then
  - Load ReIM To PSFT Acct Entry PKG

## **Update Schedule**

Go back to Topology and find your physical agent and then right-click and update the schedule.

# Check

The agent runs at a predefined execution time as defined in the schedule. When it runs, you can check it in the Operator. You can also check the data in the EBS side interface tables to determine if the execution is successful and the data has been moved to the EBS interface tables.

# Appendix: Troubleshooting PeopleSoft Services

This section provides few guidelines around few issues one might encounter while configuring PeopleSoft services to integrate with RFI

**Note:** These are broad guidelines. If problem persists then get a PeopleSoft administrator should validate the installation and service availability.

# Error – Building the Project Objects

If you encounter either of the below mentioned errors while building the PeopleSoft project objects, try This section provides guidelines around few issues one might encounter while configuring PeopleSoft services to integrate with RFI

## Issue:

Open file operation failed. <FilePath>\PSBUILD.LOG



## **Resolution:**

Ensure to set the valid path for the log file shown in the above screen. Below screen shot shows how to change and validate the log file path.



## Issue:

Open file operation failed. <FilePath>\PSBUILD.SQL

uiid	23	
Build Scope	Build	
RFI_COMM_WRK RFI_WS_SEC_TBL	Cancel	
	Settings	
	Build Options	Application Designer
	Create Tables Create Indexes Create Views	Open file operation failed for file C:\Users\psftuser \AppData\Local\Temp121\PSBUILD.SQL. (76,2)
	Alter Tables	OK Explain
	<ul> <li>Build Execute Uptions</li> <li>Build script file</li> <li>Execute SQL now</li> </ul>	
	Execute and build script	

#### **Resolution:**

Ensure to set a valid Set a valid path for the SQL file in Scripts tab. Check the below screen shot

Build Build Scope RFI_COMM_WRK RFI_WS_SEC_TBL	Build         Cancel         Settings         Build Options         Ø Create Tables         Create Indexes         Create Views         Alter Tables         Create Trigger         Build script file         Execute SQL now         Execute and build script	Build Settings Create Alter Logging Scripts Comments Write Alter comments to script Script File Options Output to single file Output to separate files Script File Names All Output File Name: C:\Users	Script File Save as Unicode File Overwrite Options Aways overwrite Prompt for each overwrite stypsftuser\AppData\Local\Terr	
			OK Car	ncel

### Issue:

PeopleSoft service is not able to deliver messages to RFI. The system will throw an error message:

"Integration Gateway - HttpTargetConnector:ExternalApplicationException. Http status code HttpStatusCode returned : 500. (158,10623)

RFI\_INT\_AP.RFI\_WEBSERVICE\_AP.RFI\_WEBSERVICE\_AC.OnExecute Name:RFI\_Meth\_InitRequest PCPC:8443 Statement:111...."

## **Resolution:**

Follow the below mentioned steps and screen prints:

- 1. Check the Target system is up and running (RFI is the Target system)
- 2. Validate the the Primary URL value of the Target system in PeopleSoft :-
  - **Navigation:** Main Menu  $\rightarrow$  PeopleTools  $\rightarrow$  Integration Broker  $\rightarrow$  Integration Setup  $\rightarrow$  Service Operation

**Note:** Routing parameter value needs to be checked for respective Service Operation. Below are list of Service operations used with RFI. Please note these are not exact names of the service operation.

- Vendor
- Payment Terms
- Currency Rate
- COMBO CF Edit Request
- DrillForwardBackward Service

The screenshots below show navigation for Vendor Service. Similar look up needs to be done for the service which has issue

**Navigation:** Main Menu  $\rightarrow$  PeopleTools  $\rightarrow$  Integration Broker  $\rightarrow$  Integration Setup  $\rightarrow$  Services

Search for service – SUPPLIERBUSINESSEVENTHANDLERSE and click on Service Link.

Favorites - Main Menu - > Peo	pleTools 🔹 > Integration Broker 🔹 >	Integration S	etup 🔹 Services
			Home W
ORACLE			
Services - Search			
🐣 Search Criteria			
Service	SUP		Add a New Value
	REST Service		
Search			
Services	Personalize	Find   View A	All 🖾 🔝 🛛 First 🕙 1 of 1 🕑 Last
Service	Service Alias	Object Owner ID	Description
SUPPLIERBUSINESSEVENTHANDLERSE	SupplierBusinessEventHandlerService		SUPPLIERBUSINESSEVENTHANDLERSE

**3.** On the Service Definition page, click the Service Operation link to open Service Operation

ORACLE			
General Handlers Routings			
Service Operation Operation Type	HANDLEBUSINESSEVENT Synchronous		
*Operation Description	HANDLEBUSINESSEVENT		
Operation Comments	HANDLEBUSINESSEVENT	User/Password Required     *Req Verification     Service Operation Security	•
Owner ID	· · · · · ·	500 <b></b>	
Operation Alias	handleBusinessEvent	Used with Think Time Methods	
Default Service Operation Version			
*Version	V1	Contractive Active	
Version Description	HANDLEBUSINESSEVENT	Routing Status	
Version Comments	* DO NOT REMOVE **	Anu to Local Dass not evid	11

## **4.** Click the Routings tab.

	notice mittage - v c andre	ri cols +> integr	ation Broker => Integ	ation Setup +> Servic	es :			
RACL	.E							
eneral H	andiers Routings							
	Service Operation HAD	DLEBUSINESSE	EVENT					
	Default Version V1	ser Exception						
	Note This	user excertion s	tatus is applicable only	if an outbound routing	and the defermined of		Ann and he deleased these	3 3 3 3 1
	5.1025 F	of an effect of the		a an ease on ease of the second	cannot be determined. It	a varu outoounu roo	ung can be betermined been	the user exception status on
	actu Routing Name	al routing will be	used.	400	cannot be determined. In	a varo outouno roo	ang can be onermined tren	the user exception status on
Routing D	actu Routing Name	al routing will be	used.	Add	cannot be determined a	Personaliz	ter   Find   View All   💷 ( 🚟	First & 1 of 1 & Last
Routing De Selected	actu Routing Name finitions Name	al routing will be Version	Used.	Add Sender Node	Receiver Node	Personaliz	te   Find   View All   🗐   🏙 Status	First (5) 1 of 1 (6) Last Results
Routing Di Selected	Actu Routing Name finitions Name -IMPORTED-10419	Utraing will be	used. Operation Type Synch	Add Sender Node PSFT_EP	Receiver Node WSDL_NODE	Personaliz Direction Outbound	te   Find   View All   [3]   11 Status Active	First (b) 1 of 1 (c) Last Results
Routing Di Selected	Actu Routing Name effinitions Name -IMPORTED-10419 te Selected Routings	Version V1	Operation Type Synch	Add Sender Hode PSFT_EP	Receiver Node WSDL_NODE	Personaliz Direction Outbound	te   Find   View All   121   128 Status Active	First 1 of 1 & Last Results

**5.** Click the routing definition link. Look up the highlighted square in the above screen shot. This should open a pop-up window

Faiontes - Main Meou - > Pe	opieTools *> inter	pration Broker * > Integr	ration Setup * > 5	ienices			
General Handlers Routings Service Operation Default Version Note Routing Name	HANDLEBUSHESS V1 User Exception This user exception actual routing will b	SEVENT status is applicable only sused.	if an outbound ros	18 Routing Definit Routing Definitions R R Service Opera	Parameters C Parameters C outing Name -IMPO to Operation HANDS too Version V1 Gateway ID LOCAL Connector ID HTTPT/	RTED-10419 LEBUSINESSEVENT	Louting Properties
Selected Name	Version V1	Operation Type Synch	Sender Node	*D	elivery Mode Guarar	nteed Delivery	•
Inachiste Selected Routings Activate Selected Routings Save Return to Senice General   Handlers   Routings			Property 80 Property 80 HEADER HEADER HTTPPROPERTY HTTPPROPERTY PRIMARYURL	Personaliz Property Name Content-Type sendUncompresse Method SOAPUpContent URL	Value Value Post Y Post Y Intpulmep52220	• First + 15 of 5 * Last Q, € = Q, € = Q, € = Q, € = Us oracle com7001Q, € =	

**6.** Click on the "Connector properties" tab and validate the WSDL /Target URL reference given against "Primary URL". This should be pointing to service that is being invoked in RFI. If this is different, then Change the URL to point to the one configured in RFI. Save the changes by pressing "Save" button.

#### Issue:

Messages are not published to Retail from PSFT.

#### **Resolution:**

Check the status of the Domain to be active. The same can be verified by following below screen shots:-

Favorites 🕶	Mai	n Menu 🔻	> People	Tools 🔻	r > Integration Broker * > Service Operations Monitor * > Administration * > Domain	n Status
ORACL	.e <sup>.</sup>					
Domain S	Statu	s				
Domain Crite	ria					
Pur Refresh	ge Doi	main Stat	us Update		Grace Period for all Domains (Minutes)	
Domains					Personalize   Find   View All   🔄   🛅	First
Failover Group	Failov Priori	er ty	Machine Na	me	Application Server Path Domain Grace Status Period	Slave Ind
			msp52229		/u00/oracle/product/PT8.53/pscfghome/appserv/fscmdmo	]
Dispatcher S	tatus				Personalize   Find   🗷   🛅 🛛 First 🕚 1-3 of 3 🕑 Last	
Machine Name	•	Dispatche	er Name	Applicati	tion Server Path Status String Date/Time Stamp	
msp52229		PSBRKD	SP_dflt	/u00/ora	acle/product/PT8.53/pscfghome/appserv/fscmdmo ACT	
msp52229	nsp52229 PSPUBDSP_dflt /u00/oracle/product/PT8.53/pscfghome/appservlfscmdmo ACT					
msp52229	nsp52229 PSSUBDSP_dflt /u00/oracle/product/PT8.53/pscfghome/appserv/fscmdmo_ACT					

#### Issue:

Invalid Business Unit erro while creating Supplier in PeopleSoft. The system will throw a validation message "Operator Business Unit - XXX is not a AP Business Unit ", if the Business Unit assigned to the user is not a Accounts Payable Business Unit.

Favorites + Main Menu + > Suppliers + > Supplier Information + > Add/Update + >	Supplier		
ORACLE			
Summary Identifying Information Address Contacts Location Cystom SetID SHARE Supplier ID ITV0000052 *Supplier Short Name SYSTEMTOOL YClassification Outside Party HCM Class Y	*Supplier Name Additional Name Sa11 Withholding Valt Registration *Suppler Audit Default		
*Persistence Regular  * Supplier Status Approved  *	Supplier Audit		
Expand All	Message Operator Business Unit - US001 is not a AP Business Unit		
Corporate Supplier Corporate SettD SHARE Corporate Supplier D TV0000052 System Tool, Inc.	The PeopleCode program executed an Error statement, which has produced this message.		
Create Bill-To Customer			

#### **Resolution:**

Check the default business unit assigned to the current user by following below mentioned steps.

<u>Navigation</u>: Main Menu  $\rightarrow$  SetUp Financials/Supply Chain  $\rightarrow$  Common Definitions  $\rightarrow$  User Preferences  $\rightarrow$  Define User Preferences

1. Click on Overall Preferences to open the preferences assigned to the user as shown in the below screen shot:-

Favorites - N	Main Menu + > Set Up Financials/Supply Chain +> Common Definitions +> User Preferences +> Define User Preference						
DRACLE							
User Preference	es						
General Prefer	ence	Product Preference					
Overall Prefere OLE Informatic Process Group	nnce pn p	Asset Management IT Asset Management Billing Contracts General Ledger Inventory Lease Administration Maintenance Management Manufacturing Mobile Inventory Orders - Quotations Orders - Other Orders - Sales Paycycle	Planning Procurement Project Costing Promotions Management Receivables Data Entry 1 Receivables Data Entry 2 Staffing - General Preferences Staffing - Job Data Strategic Sourcing Supplier Contract Management				

**2.** Verify the Business Unit assigned to the user is defined as a Payable Business Unit. If not, make a business decision like whether to add the Business Unit or change the Business unit of the user.

**<u>Navigation</u>**: Main Menu  $\rightarrow$  Set up Finance / Supply Chain  $\rightarrow$  Business Unit Related  $\rightarrow$  Payables  $\rightarrow$  Payables Definition

Favorites - Main Menu - Set Up Financials/Suppl	y Chain $\Rightarrow$ Business Unit Related $\Rightarrow$ Payables $\Rightarrow$ Payables Definition
ORACLE	
Payables Definition Enter any information you have and click Search. Leave fields	blank for a list of all values.
Find an Existing Value Add a New Value	
Search Criteria	Look Up Business Unit
Business Unit: 😑 🔻	Business Unit:     begins with ▼       US001       Description:     begins with ▼
Search Clear Basic Search 🖉 Save Search Cri	Look Up Clear Cancel Basic Lookup
Find an Existing Value   Add a New Value	View 100 First (1 of 1 ) Last Business Unit Description US001 US001 NEW YORK OPERATIONS

# **Appendix: Installation Order**

This section provides a guideline as to the order in which the Oracle Retail applications should be installed. If a retailer has chosen to use some, but not all, of the applications the order is still valid less the applications not being installed.

**Note:** The installation order is not meant to imply integration between products.

## **Enterprise Installation Order**

1. Oracle Retail Merchandising System (RMS), Oracle Retail Trade Management (RTM), Oracle Retail Sales Audit (ReSA). Optional: Oracle Retail Fiscal Management (ORFM)

**Note:** ORFM is an optional application for RMS if you are implementing Brazil localization.

- **2.** Oracle Retail Service Layer (RSL)
- 3. Oracle Retail Extract, Transform, Load (RETL)
- 4. Oracle Retail Active Retail Intelligence (ARI)
- 5. Oracle Retail Warehouse Management System (RWMS)
- 6. Oracle Retail Invoice Matching (ReIM)
- 7. Oracle Retail Price Management (RPM)

**Note:** During installation of RPM, you are asked for the RIBforRPM provider URL. Because RIB is installed after RPM, make a note of the URL you enter. To change the RIBforRPM provider URL after you install RIB, edit the remote\_service\_locator\_info\_ribserver.xml file.

- 8. Oracle Retail Allocation
- 9. Oracle Retail Central Office (ORCO)
- 10. Oracle Retail Returns Management (ORRM)
- **11.** Oracle Retail Back Office (ORBO)
- 12. Oracle Retail Store Inventory Management (SIM)

**Note:** During installation of SIM, you are asked for the RIB provider URL. Because RIB is installed after SIM, make a note of the URL you enter. To change the RIB provider URL after you install RIB, edit the remote\_service\_locator\_info\_ribserver.xml file.

- 13. Oracle Retail Predictive Application Server (RPAS)
- 14. Oracle Retail Demand Forecasting (RDF)
- 15. Oracle Retail Category Management (CM)
- 16. Oracle Retail Modeling Engine (ORME)
- **17.** Oracle Retail Assortment Space Optimization (OASO)

- 18. Oracle Retail Replenishment Optimization (RO)
- 19. Oracle Retail Analytic Parameter Calculator Replenishment Optimization (APC RO)
- 20. Oracle Retail Regular Price Optimization (RPO)
- 21. Oracle Retail Merchandise Financial Planning (MFP)
- 22. Oracle Retail Size Profile Optimization (SPO)
- 23. Oracle Retail Assortment Planning (AP)
- 24. Oracle Retail Item Planning (IP)
- 25. Oracle Retail Item Planning Configured for COE (IP COE)
- 26. Oracle Retail Advanced Inventory Planning (AIP)
- 27. Oracle Retail Integration Bus (RIB)
- 28. Oracle Retail Service Backbone (RSB)
- 29. Oracle Retail Financial Integration (ORFI)
- 30. Oracle Retail Point-of-Service (ORPOS)
- 31. Oracle Retail Markdown Optimization (MDO)
- 32. Oracle Retail Clearance Optimization Engine (COE)
- **33.** Oracle Retail Analytic Parameter Calculator for Markdown Optimization (APC-MDO)
- **34.** Oracle Retail Analytic Parameter Calculator for Regular Price Optimization (APC-RPO)
- 35. Oracle Retail Analytics