

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

Installation Guide

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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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- Are the implementation steps correct and complete?
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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.

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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

For information about Oracle's commitment to accessibility, visit the Oracle Accessibility Program website at

<http://www.oracle.com/pls/topic/lookup?ctx=acc&id=docacc>.

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<http://www.oracle.com/pls/topic/lookup?ctx=acc&id=trs> if you are hearing impaired.

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*

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To contact Oracle Customer Support, access My Oracle Support at the following URL:
<https://support.oracle.com>

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

Preinstallation Tasks

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

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

Supported on	Versions Supported
Database Server OS	<p>OS certified with Oracle Database 11gR2 and 12cR1 Enterprise Edition. Options are:</p> <ul style="list-style-type: none"> ▪ Oracle Linux 6 for x86-64 (Actual hardware or Oracle virtual machine) ▪ Red Hat Enterprise Linux 6 for x86-64 (Actual hardware or Oracle virtual machine) ▪ AIX 7.1 (Actual hardware or LPARs) ▪ Solaris 11 SPARC (Actual hardware or logical domains) ▪ HP-UX 11.31 Integrity (Actual hardware, HPVM, or vPars)
Database Server 11gR2	<p>Oracle Database Enterprise Edition 11gR2 (11.2.0.4) with the following specifications:</p> <p>Components:</p> <ul style="list-style-type: none"> ▪ Oracle Partitioning ▪ Examples CD <p>Oneoff Patches:</p> <ul style="list-style-type: none"> ▪ 18465025: MERGE REQUEST ON TOP OF 11.2.0.4.0 FOR BUGS 18016963 18302329. <p>Other components:</p> <ul style="list-style-type: none"> ▪ X-Windows interface ▪ Perl interpreter 5.0 or higher

Supported on	Versions Supported
Database Server 12cR1	<p>Oracle Database Enterprise Edition 12cR1 (12.1.0.2) with the following specifications:</p> <p>Components:</p> <ul style="list-style-type: none"> ▪ Oracle Partitioning ▪ Examples CD <p>Oneoffs:</p> <ul style="list-style-type: none"> ▪ Patch 19623450: MISSING JAVA CLASSES AFTER UPGRADE TO JDK 7 <p>Other components:</p> <ul style="list-style-type: none"> ▪ Perl interpreter 5.0 or later ▪ X-Windows interface ▪ 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#JJDEV01000>

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	<p>OS supported with Oracle Database 11gR2 Enterprise Edition. Options are:</p> <ul style="list-style-type: none"> ▪ Oracle Linux 6 for x86-64 (Actual hardware or Oracle virtual machine). ▪ Red Hat Enterprise Linux 6 for x86-64 (Actual hardware or Oracle virtual machine). ▪ AIX 7.1 (Actual hardware or LPARs) ▪ Solaris 11 SPARC (Actual hardware or logical domains) ▪ HP-UX 11.31 Integrity (Actual hardware, HPVM, or vPars)
Data Integrator 11gR1	<p>Oracle Data Integrator Release 11gR1 (11.1.1.7) with the following specifications:</p> <p>Oracle Fusion Middleware 11g Release 1 (11.1.1.7)</p> <p>Components:</p> <ul style="list-style-type: none"> ▪ Oracle Data Integrator 11g Release 1 (11.1.1.7)

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	<p>OS supported with Oracle Fusion Middleware 11g Release 1 (11.1.1.7). Options are:</p> <ul style="list-style-type: none"> ▪ Oracle Linux 6 for x86-64 (Actual hardware or Oracle virtual machine). ▪ Red Hat Enterprise Linux 6 for x86-64 (Actual hardware or Oracle virtual machine). ▪ AIX 7.1 (Actual hardware or LPARs) ▪ Solaris 11 SPARC (Actual hardware or logical domains) ▪ HP-UX 11.31 Integrity (Actual hardware, HPVM, or vPars)
Application Server	<p>Oracle Fusion Middleware 11g Release 1 (11.1.1.7)</p> <p>Components:</p> <ul style="list-style-type: none"> ▪ Oracle WebLogic Server 11g Release 1 (10.3.6) ▪ Java: JDK 1.7+ 64 bit <p>IMPORTANT: 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.</p> <p>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.</p> <p>Note: 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.</p>

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.

ORFI Installation

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.

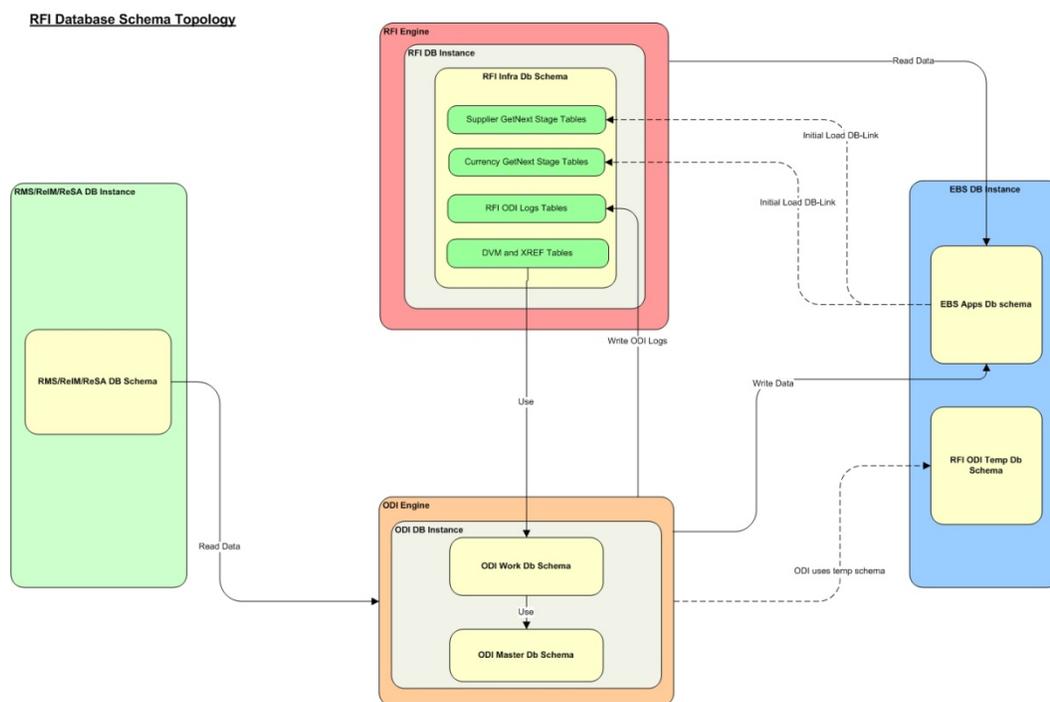
ORFI Database Installation Tasks

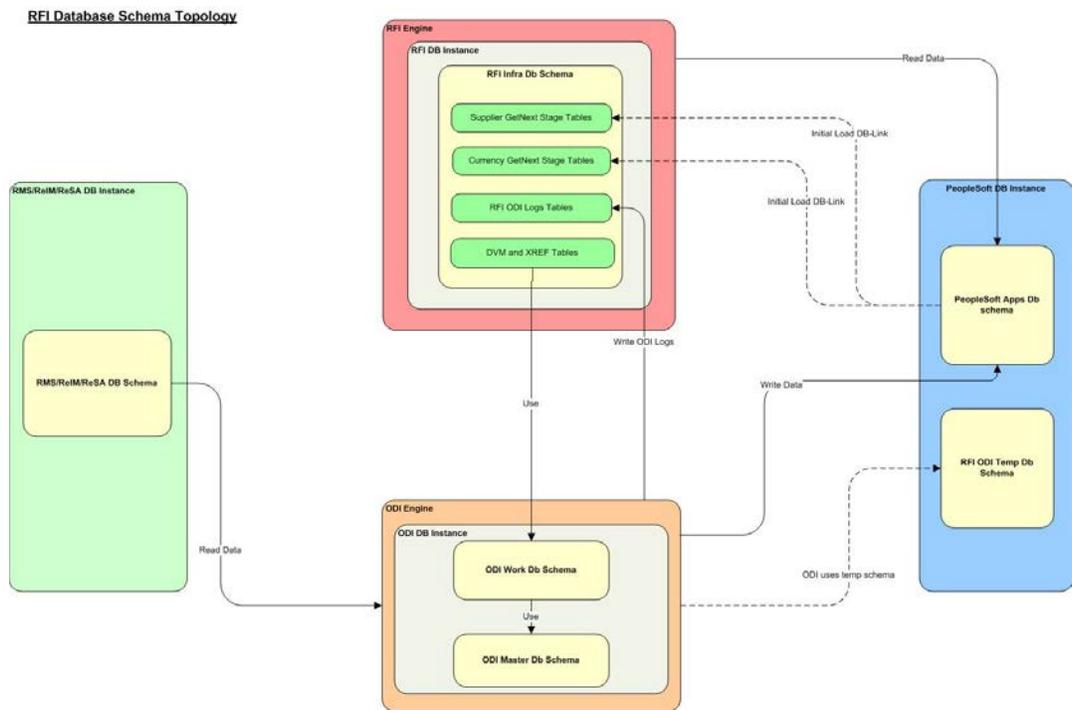
Expand the ORFI Installer Distribution

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-based-
integration/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
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 Xceed, 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.

1. Based on whether integrating Oracle Financials application is EBS or PeopleSoft, run one of the initial setup scripts available in \$INSTALL_DIR/retail-financial-integration-solution/service-based-integration/bin/. After installation is completed, a detailed installation log file is created: \$INSTALL_DIR/retail-financial-integration-solution/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/rfi1/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-integration-ear-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 → 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 → DataSourceDef configuration:

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

1. 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.

7. 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 GIAccount Service :
"glAccountValidationServiceEndPointUrl": "http://myhostname:7001/GIAccountValidationBean/GIAccountValidationService?WSDL",
If integration is with peopleSoft then enter the End point URL for below mentioned services. If integration is with EBS please skip 1 - 4 service configuraiton steps
 - a. Enter the End point URL for drillBackForward Service:
drillBackForwardUrlServiceEndPointUrl": "http://myhostname:7001/DrillBackForwardUrlBean/DrillBackForwardUrlService?WSDL",
 - b. Enter the End point URL for Supplier Service:
supplierBusinessEventHandlerServiceEndPointUrl": "http://myhostname:7001/SupplierBusinessEventHandlerServiceBean/SupplierBusinessEventHandlerService?WSDL",
 - c. Enter the End point URL for Payterms Service:
payTermBusinessEventHandlerServiceEndPointUrl": "http://myhostname:7001/PayTermBusinessEventHandlerServiceBean/PayTermBusinessEventHandlerService?WSDL",
 - d. Enter the End point URL for Currency Rate Service:
currencyRateBusinessEventHandlerServiceEndPointUrl": "http://myhostname:7001/CurrencyRateBusinessEventHandlerServiceBean/CurrencyRateBusinessEventHandlerService?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>"
8. 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/ReportLocatorBean/ReportLocatorService?WSDL",
 - Enter the payterm service End point URL:
payTermServiceEndPointUrl": "http://rmshostname:19203/PayTermBean/PayTermService?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/PeopleSoftServiceListeningConnector/COMBO_CF_EDIT_REQUEST.1.wsdl",

- Enter the rfiInvoice Drill forward service End point URL :
"rfiInvoiceDrillForwardServiceEndPointUrl":"http://psfhostname:7777/PSIG
W/PeopleSoftServiceListeningConnector/RFI_INV_DRILLFORWARD_SERVIC
E.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-integration-solution/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>
 - 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/CurRatePublishingAppServiceProxy?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-financial-integration-solution/service-based-integration/target/ebs-side/ 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 <WebLogic Installed folder>/wlserver_10.3

1. Run the rfi-deployer.sh (available in \$INSTALL_DIR/retail-financial-integration-solution/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 <WebLogic Installed folder>/wlserver_10.3

1. Run the `rfi-deployer.sh` (available in `$INSTALL_DIR/retail-financial-integration-solution/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-integration-solution/service-based-integration/setup-data folder to <INSTALL_DIR>/retail-financial-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/setup-data/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 Schema Password> <ODI Stage  
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-financial-integration-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-ebfin-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 tns configuration information to EBS database is set in your path.

1. Run the load-initial-setup-data-into-ebfin-schema.sh script available in \$INSTALL_DIR/ebfin-schema/install/bin/. After installation is completed, a detailed installation log file is created: \$INSTALL_DIR/ebfin-schema/install/bin//<timestamp>.log.

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

```
sh load-initial-setup-data-into-ebfin-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 tns 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.



- 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

ORACLE Administrator Workflow

Home Developer Studio Business Events Status Monitor Notifications Administration

Events Subscriptions Agents Systems

Business Events: Events > Business Events: Events > Subscriptions >

Cancel Next

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 occurs.

* Indicates required field

Subscriber

* System: R12NET.US.ORACLE.COM

Triggering Event

* Source Type: Local

* Event Filter: oracle.apps.ap.supplier.event

Source Agent:

Execution Condition

* Phase: 71
Subscription with a phase 1-99 are run synchronously ; 100 and above are deferred.

* Status: Enabled

* Rule Data: Key

Action Type

* Action Type: Custom

On Error: Skip to Next

Cancel Next

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g. Click Apply.

ORACLE Administrator Workflow

Business Events: Events > Business Events: Events > Subscriptions > Update Event Subscriptions >

Update Event Subscription: Custom

Cancel Back Apply

Action

The Rule Function controls the behaviour of the subscription. Provide a Java Class name (<<Package>>.<<Class>>) for Java Rule Function and a PL/SQL stored procedure (<<Package>>.<<Function>>) for PL/SQL Rule Function.

Java Rule Function: com.oracle.retail.rfebs.SupplierBES

PL/SQL Rule Function:

Workflow Type:

Workflow Process:

Choose a Workflow Type, before choosing the Workflow Process for that Type

Out Agent:

To Agent:

* Priority: Normal

Subscription Parameters

Select Name	Value
No results found.	
Add Another Row	

Enter parameters and their values with no spaces

Documentation

* Owner Name: Oracle Payables

* Owner Tag: SQLAP

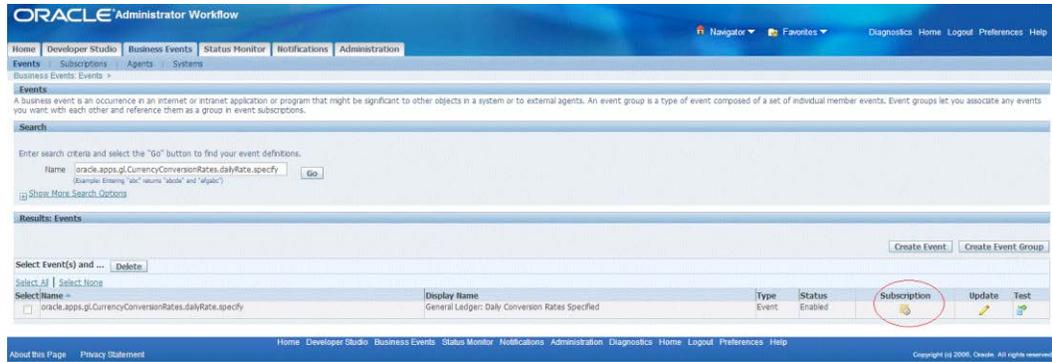
Customization Level: User

Description:

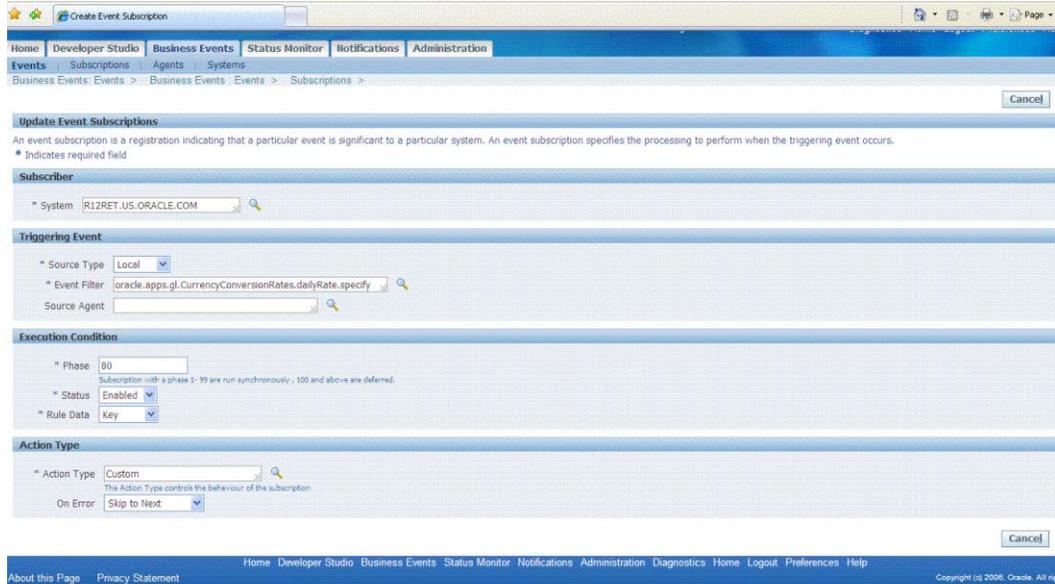
Cancel Back Apply

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.



- 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



g. Click Apply.

The screenshot shows the 'Update Event Subscription : Custom' form. The 'Action' section includes the following fields:

- Java Rule Function:
- PL/SQL Rule Function:
- Workflow Type:
- Workflow Process:
- Out Agent:
- To Agent:
- Priority:

The 'Subscription Parameters' section is empty with an 'Add Another Row' button. The 'Documentation' section includes:

- Owner Name:
- Owner Tag:
- Customization Level:
- Description:

- 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

- Log in to the EBS UNIX server
- From the ORFI server, copy the <INSTALL_DIR>/retail-financial-integration-solution/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.
- 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/apps_st/appl

- 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-integration-solution/service-based-integration/target/ebs-side/

5. Go to the \$INST_TOP/appl/admin/ folder
cd \$INST_TOP/appl/admin/
6. 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"
osd="unix">/u01/app/R12RET/apr12ret/applmgr/apps/tech_st/10.1.3/appsutil/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/tech_st/10.1.3/appsutil/jdk/jre/lib/rt.jar:/u01/app/R12RET/apr12ret/applmgr/apps/apps_st/comm/java/lib/appsborg.zip:/u01/app/R12RET/apr12ret/applmgr/apps/tech_st/10.1.2/forms/java:/u01/app/R12RET/apr12ret/applmgr/apps/tech_st/10.1.2/forms/java/frmall.jar:/u01/app/R12RET/apr12ret/applmgr/apps/tech_st/10.1.2/jlib/ewt3.jar:/u01/app/R12RET/apr12ret/applmgr/apps/tech_st/10.1.2/j2ee/OC4J_BI_Forms/applications/formsapp/formsweb/WEB-INF/lib/frmsrv.jar:/u01/app/R12RET/apr12ret/applmgr/apps/apps_st/comm/java/classes:/u01/applmgr/apps/apps_st/comm/java/classes/rfi/retail-public-security-api/lib/commons-cli-1.2.jar:/u01/applmgr/apps/apps_st/comm/java/classes/rfi/retail-public-security-api/lib/commons-logging-1.1.1.jar:/u01/applmgr/apps/apps_st/comm/java/classes/rfi/retail-public-security-api/lib/jps-api-11.1.1.jar:/u01/applmgr/apps/apps_st/comm/java/classes/rfi/retail-public-security-api/lib/jps-internal-11.1.1.jar:/u01/applmgr/apps/apps_st/comm/java/classes/rfi/retail-public-security-api/lib/jps-common-11.1.1.jar:/u01/applmgr/apps/apps_st/comm/java/classes/rfi/retail-public-security-api/lib/jps-unsupported-api-11.1.1.jar:/u01/applmgr/apps/apps_st/comm/java/classes/rfi/retail-public-security-api/lib/jacc-spi-11.1.1.jar:/u01/applmgr/apps/apps_st/comm/java/classes/rfi/retail-public-security-api/lib/jacc-api-10.1.3.jar:/u01/applmgr/apps/apps_st/comm/java/classes/rfi/retail-public-security-api/lib/jps-ee-11.1.1.jar:/u01/applmgr/apps/apps_st/comm/java/classes/rfi/retail-public-security-api/lib/jps-manifest-11.1.1.jar:/u01/applmgr/apps/apps_st/comm/java/classes/rfi/retail-public-security-api/lib/jps-mbeans-11.1.1.jar:/u01/applmgr/apps/apps_st/comm/java/classes/rfi/retail-public-security-api/lib/jps-upgrade-11.1.1.jar:/u01/applmgr/apps/apps_st/comm/java/classes/rfi/retail-public-security-api/lib/jps-wls-11.1.1.jar:/u01/applmgr/apps/apps_st/comm/java/classes/rfi/retail-public-security-api/lib/identitystore-11.1.1.jar:/u01/applmgr/apps/apps_st/comm/java/classes/rfi/retail-public-security-api/lib/oraclepki-11.1.1.jar:/u01/applmgr/apps/apps_st/comm/java/classes/rfi/retail-
```

```
public-security-api/lib/osdt_core-
11.1.1.jar:/u01/applmgr/apps/apps_st/comm/java/classes/rfi/retail-
public-security-api/lib/osdt_cert-
11.1.1.jar:/u01/applmgr/apps/apps_st/comm/java/classes/rfi/retail-
public-security-api/lib/sjspx-
1.0.2.jar:/u01/applmgr/apps/apps_st/comm/java/classes/rfi/retail-
public-security-api/lib/jsr173-
1.0.jar:/u01/applmgr/apps/apps_st/comm/java/classes/rfi/rfi-ebs-
event-handler/ebs-financial-common-
14.0.01.jar:/u01/applmgr/apps/apps_st/comm/java/classes/rfi/retail-
public-security-api/lib/retail-public-security-api-
14.0.0.jar</CLASSPATH>
    <AF_CLASSPATH oa_var="s_adoavar_afclasspath"
osd="unix/u01/applmgr/apps/apps_st/comm/java/classes/rfi/retail-
public-security-api/lib/commons-cli-
1.2.jar:/u01/applmgr/apps/apps_st/comm/java/classes/rfi/retail-
public-security-api/lib/commons-logging-
1.1.1.jar:/u01/applmgr/apps/apps_st/comm/java/classes/rfi/retail-
public-security-api/lib/jps-api-
11.1.1.jar:/u01/applmgr/apps/apps_st/comm/java/classes/rfi/retail-
public-security-api/lib/jps-internal-
11.1.1.jar:/u01/applmgr/apps/apps_st/comm/java/classes/rfi/retail-
public-security-api/lib/jps-common-
11.1.1.jar:/u01/applmgr/apps/apps_st/comm/java/classes/rfi/retail-
public-security-api/lib/jps-unsupported-api-
11.1.1.jar:/u01/applmgr/apps/apps_st/comm/java/classes/rfi/retail-
public-security-api/lib/jacc-spi-
11.1.1.jar:/u01/applmgr/apps/apps_st/comm/java/classes/rfi/retail-
public-security-api/lib/jacc-api-
10.1.3.jar:/u01/applmgr/apps/apps_st/comm/java/classes/rfi/retail-
public-security-api/lib/jps-ee-
11.1.1.jar:/u01/applmgr/apps/apps_st/comm/java/classes/rfi/retail-
public-security-api/lib/jps-manifest-
11.1.1.jar:/u01/applmgr/apps/apps_st/comm/java/classes/rfi/retail-
public-security-api/lib/jps-mbeans-
11.1.1.jar:/u01/applmgr/apps/apps_st/comm/java/classes/rfi/retail-
public-security-api/lib/jps-upgrade-
11.1.1.jar:/u01/applmgr/apps/apps_st/comm/java/classes/rfi/retail-
public-security-api/lib/jps-wls-
11.1.1.jar:/u01/applmgr/apps/apps_st/comm/java/classes/rfi/retail-
public-security-api/lib/identitystore-
11.1.1.jar:/u01/applmgr/apps/apps_st/comm/java/classes/rfi/retail-
public-security-api/lib/oraclepki-
11.1.1.jar:/u01/applmgr/apps/apps_st/comm/java/classes/rfi/retail-
public-security-api/lib/osdt_core-
11.1.1.jar:/u01/applmgr/apps/apps_st/comm/java/classes/rfi/retail-
public-security-api/lib/osdt_cert-
11.1.1.jar:/u01/applmgr/apps/apps_st/comm/java/classes/rfi/retail-
public-security-api/lib/sjspx-
1.0.2.jar:/u01/applmgr/apps/apps_st/comm/java/classes/rfi/retail-
public-security-api/lib/jsr173-
1.0.jar:/u01/applmgr/apps/apps_st/comm/java/classes/rfi/retail-
public-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/appsubutil/jdk/lib/tools.jar:/u01/app/R12RET/apr12ret/applmgr/apps/t
ech_st/10.1.3/appsubutil/jdk/jre/lib/rt.jar:/u01/app/R12RET/apr12ret/ap
```

```
plmgr/apps/apps_st/comm/java/lib/appsborg2.zip:/u01/app/R12RET/apr12ret/applmgr/apps/apps_st/comm/java/classes:/u01/app/R12RET/apr12ret/applmgr/apps/apps_st/comm/java/classes/rfi/rfi-ebs-event-handler/ebs-financial-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.
adapctl.sh stopall
adapctl.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-integration-solution/service-based-integration/setup-data folder to <INSTALL_DIR>/retail-financial-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/setup-data/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 Schema Password> <ODI Stage  
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-financial-integration-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 tns configuration information to PeopleSoft database is set in your path.

1. 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/ebs-financial/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 tns 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

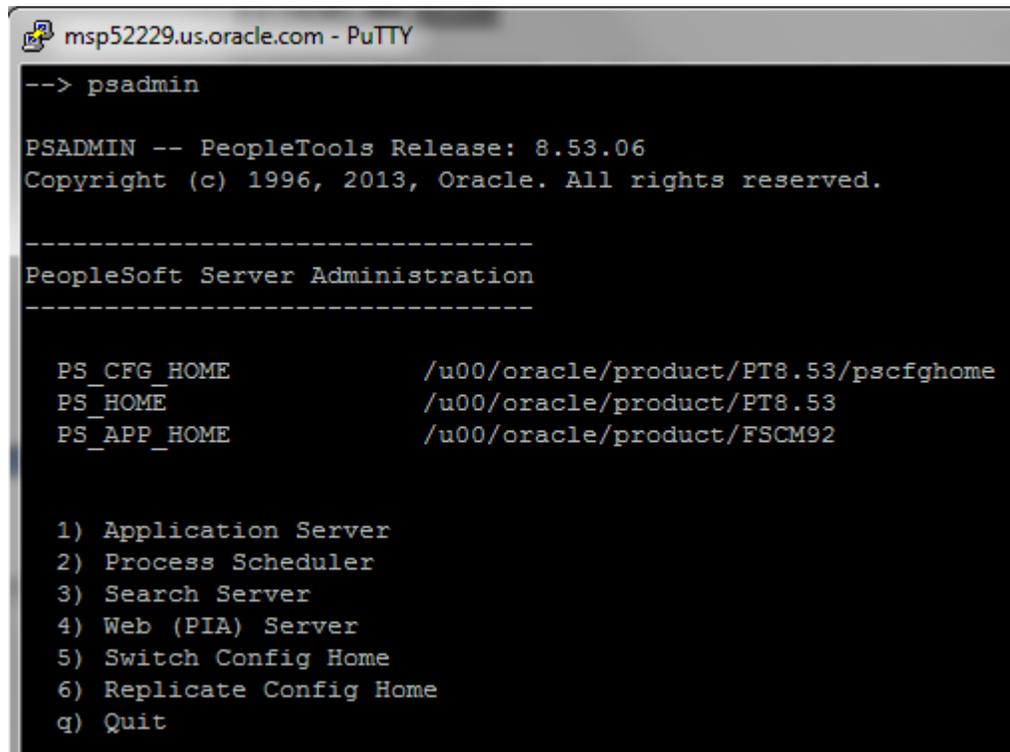
For more information on Installation, Please refer to PeopleTools installation guide 8.5x. Database, Web Server, PeopleTools and PIA are all installed.

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



```
msp52229.us.oracle.com - PuTTY
--> psadmin

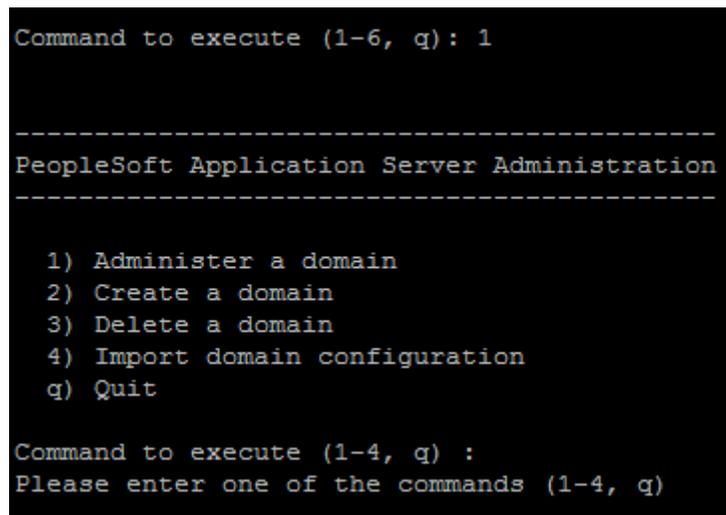
PSADMIN -- PeopleTools Release: 8.53.06
Copyright (c) 1996, 2013, Oracle. All rights reserved.

-----
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
```

- b. Select option 1 [Application Server]



```
Command to execute (1-6, q): 1

-----
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) :
Please enter one of the commands (1-4, q)
```

- c. Select Option 1 [Administer a domain]

```
-----  
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) : 1
```

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

```
-----  
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) : 1  
  
Domain list:  
  
1) fscmdmo  
  
Select domain: 1
```

- 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

```
-----
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) : 4

This option will shutdown the domain.
Do you want to continue? (y/n) [n] :y

tmadmin - Copyright (c) 1996-2010 Oracle.
Portions * Copyright 1986-1997 RSA Data Security, Inc.
All Rights Reserved.
Distributed under license by Oracle.
Tuxedo is a registered trademark.

> INFO: Oracle Tuxedo, Version 11.1.1.3.0, 64-bit, Patch Level (none)

Booting admin processes ...

exec BBL -A :
      CMTUX_CAT:821: INFO: Duplicate server.
0 processes started.

> Shutting down all admin and server processes in /u00/oracle/product/PT8.53/pscfghome/appserv/fscmdmo/PSTUXCFG

Shutting down server processes ...
```

```

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
-----

      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]
8) Event Notification: No   23) ConnectPswd: [people]
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]

      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
=====                               =====
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]
8) Event Notification: No 23) ConnectPswd: [people]
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
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): █
```

- 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 → Integration Broker → Integration Setup → Nodes

1. Search and Open the default node (e.g. PSFT_EP).

The screenshot shows the Oracle PeopleTools interface. At the top, there is a breadcrumb trail: Favorites > Main Menu > PeopleTools > Integration Broker > Integration Setup > Nodes. Below this is the Oracle logo. The main heading is "Nodes". Underneath, there is a search instruction: "Enter any information you have and click Search. Leave fields blank for a list of all values." There are two buttons: "Find an Existing Value" and "Add a New Value". A "Search Criteria" dropdown is set to "Node Name". The search criteria is "begins with PSFT_EP". There are checkboxes for "Include History" (unchecked) and "Correct History" (checked). A "Search" button and a link to "Advanced Search" are present. Below the search results, there is a table with the following data:

Node Name	Description	Local Node Default	Local Node	Node Type
PSFT_EP	Financials/Supply Chain1	Y		PIA

2. Make the changes and Save the page.

The screenshot shows the Oracle PeopleTools interface for editing the PSFT_EP node. The breadcrumb trail is: Favorites > Main Menu > PeopleTools > Integration Broker > Integration Setup > Nodes. Below the Oracle logo, there are tabs for "Node Definitions", "Connectors", "Portal", "WS Security", and "Routings". The "Node Definitions" tab is active. The node details are as follows:

- Node Name: PSFT_EP
- *Description: Financials/Supply Chain
- Node Type: PIA
- *Authentication Option: Password
- Node Password: [Redacted]
- *Default User ID: VP1
- Hub Node: [Empty]
- Master Node: [Empty]
- Company ID: [Empty]
- IB Throttle Threshold: [Empty]
- Image Name: [Empty]
- Codeset Group Name: [Empty]

On the right side, there are checkboxes for "Default Local Node" (checked), "Local Node" (checked), "Active Node" (checked), "Non-Repudiation" (unchecked), and "Segment Aware" (checked). There are also buttons for "Copy Node" and "Rename Node". At the bottom, there are buttons for "Save" and "Return to Search".

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 → PeopleTools → Integration Broker → Integration Setup → Nodes

1. Search for ANONYMOUS node and open it.

The screenshot shows the Oracle PeopleSoft interface with the breadcrumb navigation: Favorites > Main Menu > PeopleTools > Integration Broker > Integration Setup > Nodes. Below the Oracle logo, there is a section titled "Nodes" with instructions: "Enter any information you have and click Search. Leave fields blank for a list of all values." There are two buttons: "Find an Existing Value" and "Add a New Value". A "Search Criteria" dropdown is set to "Node Name". The search criteria is "begins with ANO". There are checkboxes for "Include History" (unchecked) and "Correct History" (checked). A "Search" button and a link to "Advanced Search" are present. Below, the "Search Results" section shows "View All" and "First 1 of 1 Last". A table lists the search results:

Node Name	Description	Local Node Default	Local Node	Node Type
ANONYMOUS	Used internally by IB system.	0	N	External

At the bottom, there are links for "Find an Existing Value" and "Add a New Value".

2. Verify the Default User ID is valid. E.g. VP1

The screenshot shows the Oracle PeopleSoft interface with the breadcrumb navigation: Favorites > Main Menu > PeopleTools > Integration Broker > Integration Setup > Nodes. Below the Oracle logo, there are tabs for "Node Definitions", "Connectors", "Portal", "WS Security", and "Routings". The "Node Definitions" tab is active, showing the configuration for the "ANONYMOUS" node. The configuration includes:

- Node Name: ANONYMOUS
- Description: Used internally by IB system.
- Node Type: External
- Authentication Option: None
- Default User ID: VP1
- WSIL URL: (empty)
- Hub Node: (empty)
- Master Node: (empty)
- Company ID: (empty)
- IB Throttle Threshold: (empty)
- Image Name: (empty)
- Codeset Group Name: (empty)
- External User ID: (empty)
- External Password: (empty)
- External Version: (empty)

There are also checkboxes for "Default Local Node", "Local Node", "Active Node", "Non-Repudiation", and "Segment Aware". A "Save" button is at the bottom.

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 → Integration Broker → Service Operation Monitor → Administration → 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 Menu](#) ▾ >
 [PeopleTools](#) ▾ >
 [Integration Broker](#) ▾ >
 [Service Operations Monitor](#) ▾ >
 [Administration](#) ▾ >
 [Domain Status](#)

ORACLE

Domain Status

Domain Criteria

Grace Period for all Domains (Minutes)

All Domains Active
 All Domains Inactive
 Failover Disabled

[Set Up Failover](#)
[Master/Slave Load Balance](#)
[Slave Templates](#)

Domains							Personalize	Find	View All	First	1 of 1	Last
Failover Group	Failover Priority	Machine Name	Application Server Path	Domain Status	Grace Period	Slave Indicator						
		msp52229	/u00/oracle/product/PT8.53/pscfghome/appserv/fscmdmo	Active								View Domain Queue Sets

Dispatcher Status					Personalize	Find	First	1-3 of 3	Last
Machine Name	Dispatcher Name	Application Server Path	Status String	Date/Time Stamp					
msp52229	PSBRKDSP_dflt	/u00/oracle/product/PT8.53/pscfghome/appserv/fscmdmo	ACT						
msp52229	PSPUBDSP_dflt	/u00/oracle/product/PT8.53/pscfghome/appserv/fscmdmo	ACT						
msp52229	PSSUBDSP_dflt	/u00/oracle/product/PT8.53/pscfghome/appserv/fscmdmo	ACT						

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 → Integration Broker → Configuration → 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 ▾ > Gateways

ORACLE

Gateways

Gateway ID LOCAL Inbound Gateways
 Local Gateway Load Balancer JMS Administration

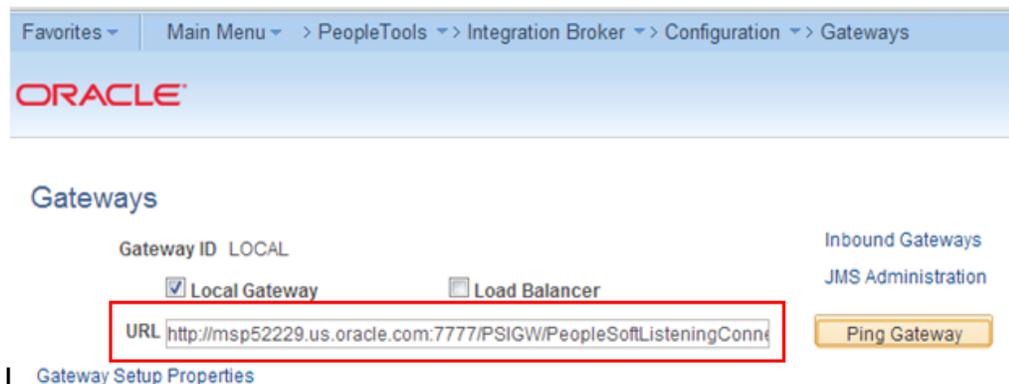
URL Ping Gateway

Gateway Setup Properties

Load Gateway Connectors

Connectors			Personalize Find  
*Connector ID	Description	*Connector Class Name	First ◀ 1 of 1 ▶ Last
1	<input type="text"/>	<input type="text"/>	Properties <input type="button" value="+"/> <input type="button" value="-"/>

Save Return to Search

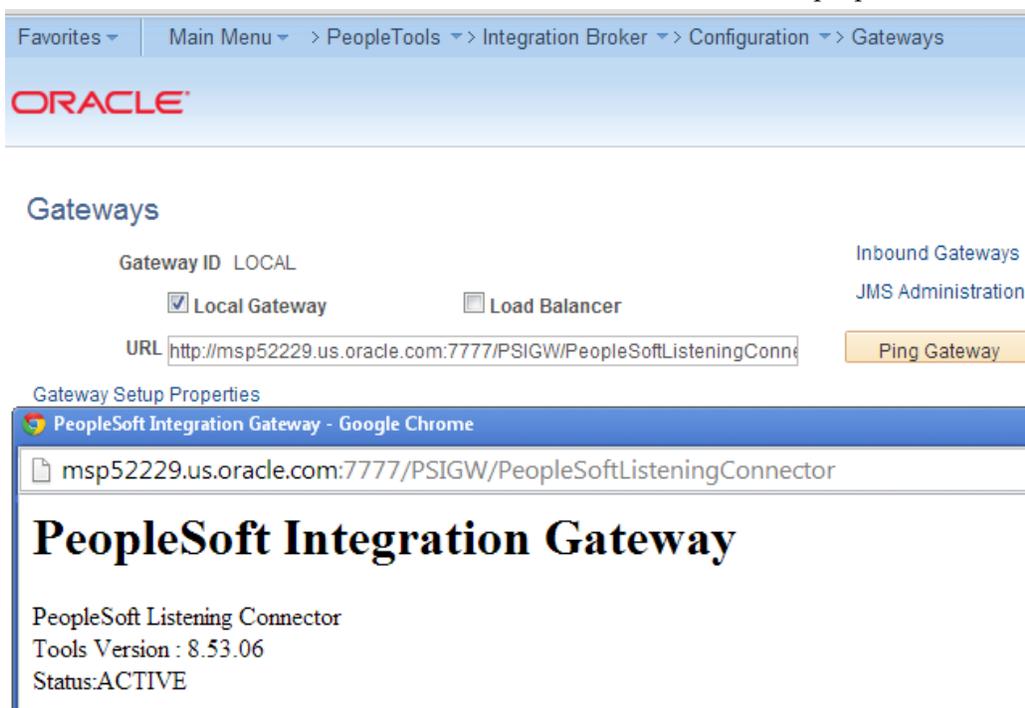


For example:

<http://msp52229.us.oracle.com:7777/PSIGW/PeopleSoftListeningConnector>

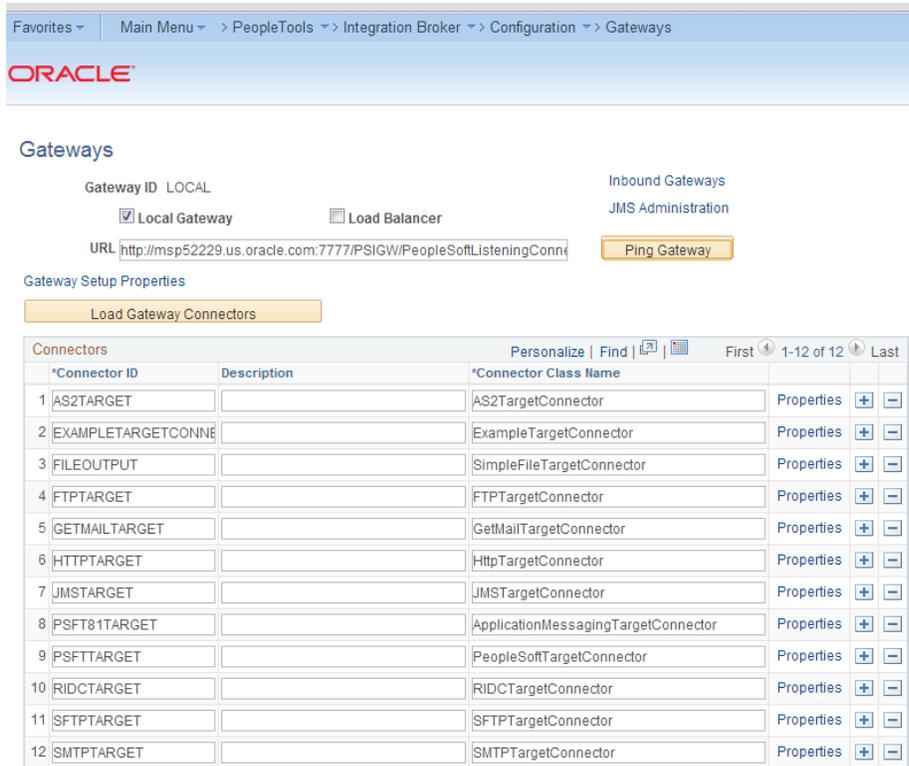
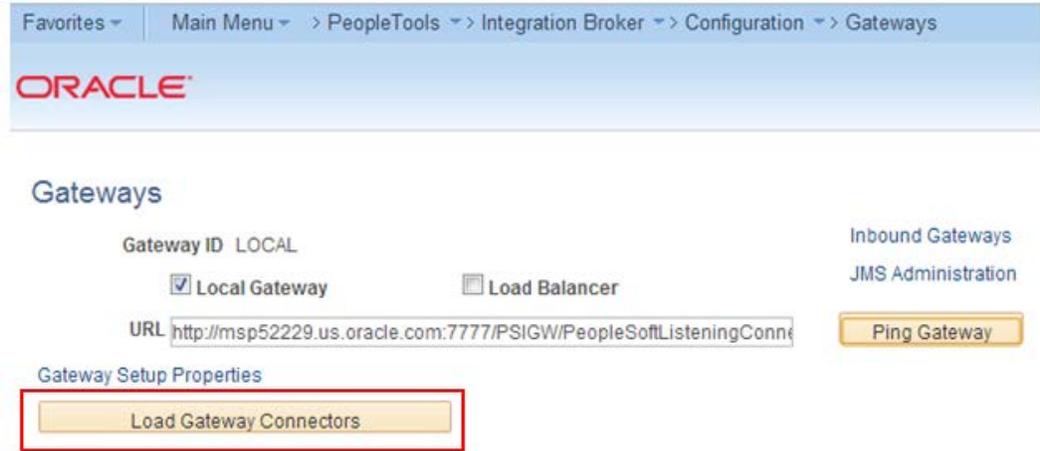
c. Check the Gateway Communication.

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.



d. Load Gateway Connectors.

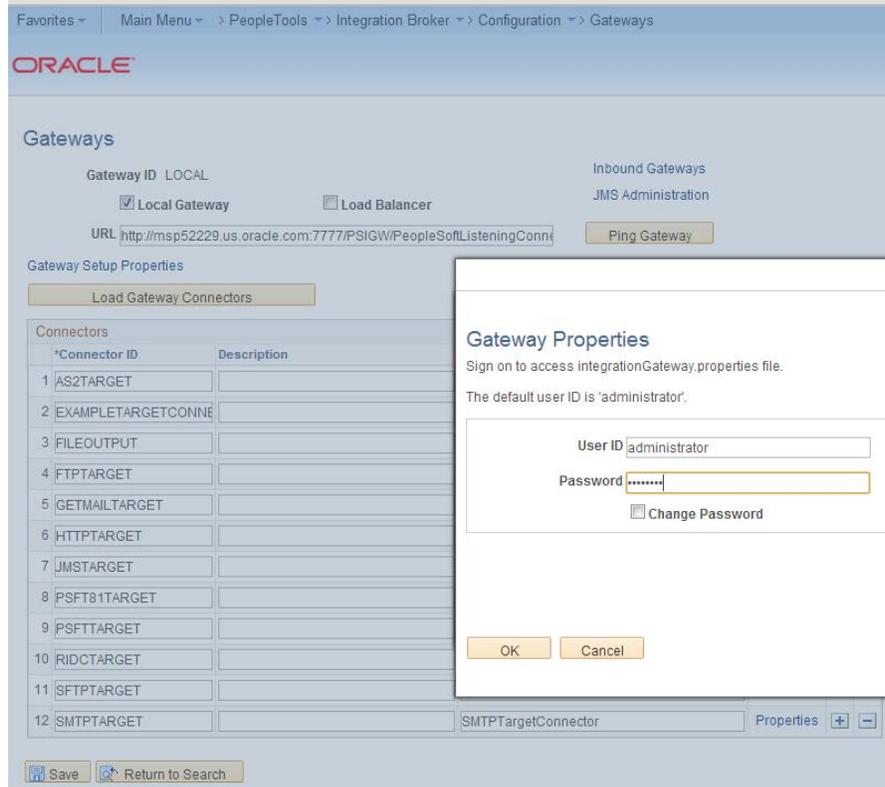
Click the Load Gateway Connectors button. A message appears that indicates the connectors were successfully loaded.



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.



- 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.

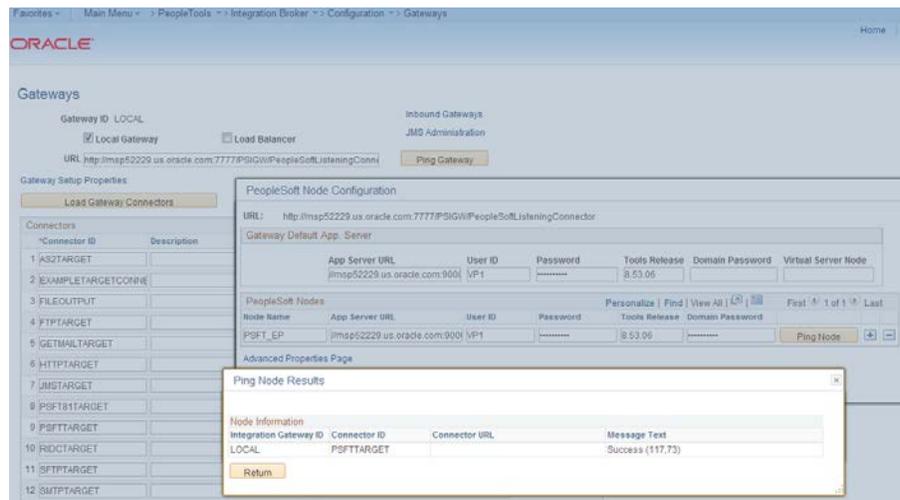
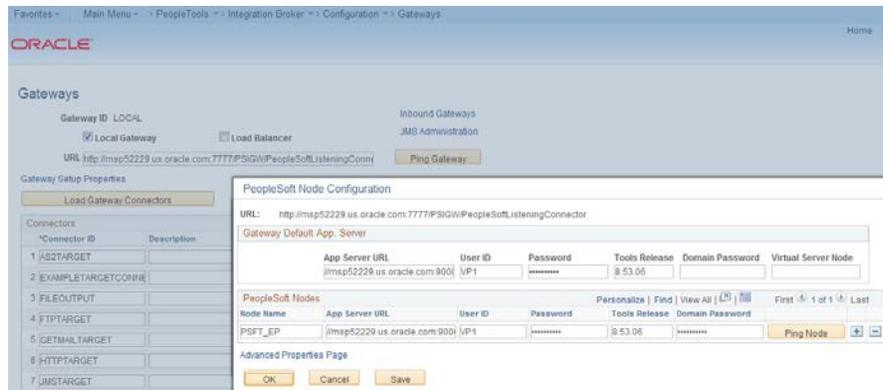
The format is //<machinename>:<port>.

An example is //misp52229.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.



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

The screenshot shows a 'Password Encryption Utility' dialog box. It has two input fields: 'Password' and 'Confirm Password'. Below the 'Password' field is a yellow 'Encrypt' button. To the right of the 'Encrypt' button is the label 'Encrypted Password:' followed by an empty text input field.

This screenshot shows the Oracle Integration Broker configuration page for Gateways. The 'Local Gateway' checkbox is checked. The URL is 'http://msp52229.us.oracle.com:7777/PSIGW/PeopleSoftListeningConn'. A 'Ping Gateway' button is visible. The 'Gateway Setup Properties' section shows a list of connectors. The 'PeopleSoft Node Configuration' dialog is open, showing the 'App Server URL' as 'http://msp52229.us.oracle.com:9001' and 'User ID' as 'VP1'. The 'Password' field is masked with asterisks. The 'Tools Release' is '8.53.06'. The 'PeopleSoft Nodes' table shows one node: 'PSFT_EP' with 'App Server URL' 'http://msp52229.us.oracle.com:9001', 'User ID' 'VP1', and 'Password' masked. The 'Advanced Properties Page' has 'OK', 'Cancel', and 'Save' buttons.

This screenshot shows the Oracle Integration Broker configuration page with the 'IB Gateway Properties' dialog open. The dialog has a 'Gateway Properties' section with a text area containing the following content:

```

URL http://msp52229.us.oracle.com:7777/PSIGW/PeopleSoftListeningConnector
Gateway Properties
#####
## These two properties are generic setups for PeopleSoft certificate support. No
## prefix 'ig' is needed
## Use the supplied encryption utility to provide an encrypted password for the entry
## below
##
## Example:
## #secureFileKeystorePath=<file.location>
## #secureFileKeystorePasswd=<password>
##
secureFileKeystorePath=\\00\oracle\product\PT8_53\websrv\FSCMDMO\placnfig\ke
vstore\pskey
secureFileKeystorePasswd={V1.1}7m4ONWfNyl.c1j6pZG69Q=
    
```

Below the text area is a 'Password Encryption' section with 'OK' and 'Cancel' buttons.

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 select **PeopleTools**, then select **Integration Broker**, then select **Integration Network WorkCenter**, then select **IB Configure Network** and click the **Add 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 (select **PeopleTools**, then select **Integration Broker**, then select **Integration Network WorkCenter**, then select **IB 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** → **Integration Broker** → **Configuration** → **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.

Favorites ▾ Main Menu ▾ > PeopleTools ▾ > Integration Broker ▾ > Configuration ▾ > Service Configuration

ORACLE

Service Configuration | UDDI Configuration | Restricted Services | Exclude PSFT Auth Token

* Service Namespace

* Schema Namespace

* Service System Status

Enable Multi-queue

*WSDL Generation Alias Check

*Target Location(s) Required for Web Services

Last Updated VPT Last Update Date/Ti

Target Locations

Web Services Target Locations

*Target Location

Example

Alternate Example

Secure Target Location

Example

Alternate Example

REST Target Locations

Target Location

Example

Alternate Example

Secure Target Location

Example

Alternate Example

Verifying IB Configuration

Navigation: Main Menu → PeopleTools → Integration Broker → Integration Network → Configuration Status

All Status should be active.

- Gateway Configured
- Node Network configured
- Domain Active

The screenshot displays the Oracle Integration Broker Configuration Status page. At the top, there is a breadcrumb trail: Favorites > Main Menu > PeopleTools > Integration Broker > Integration Network > Configuration Status. The Oracle logo is visible in the header. The main heading is "Configuration Status" with a "Help" icon. Three status indicators are shown, each with a green checkmark and a question mark icon:

- Gateway Configured**: Includes sub-tasks: Update Gateway Location, Update Configuration Settings, Register Target Connectors.
- Node Network Configured**: Includes sub-task: Select and Configure Nodes for the Network.
- Domain Active**: Includes sub-task: Activate Domain.

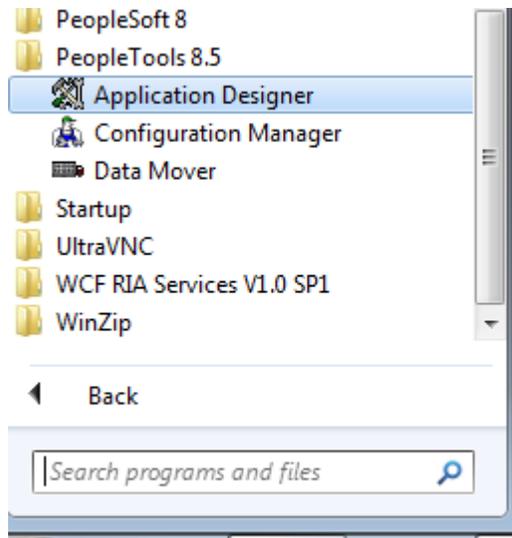
Below the status indicators is an "Additional Links" section with the following links:

- Service Configuration** - Configure Server, Schema Namespaces and Target Locations
- Monitor Setup** - Enable gateway logging and Data View size limit
- System Setup** - Set maximum recursion level and enable IB Profiling
- Node Network Password** - Update Integration Node Network Password

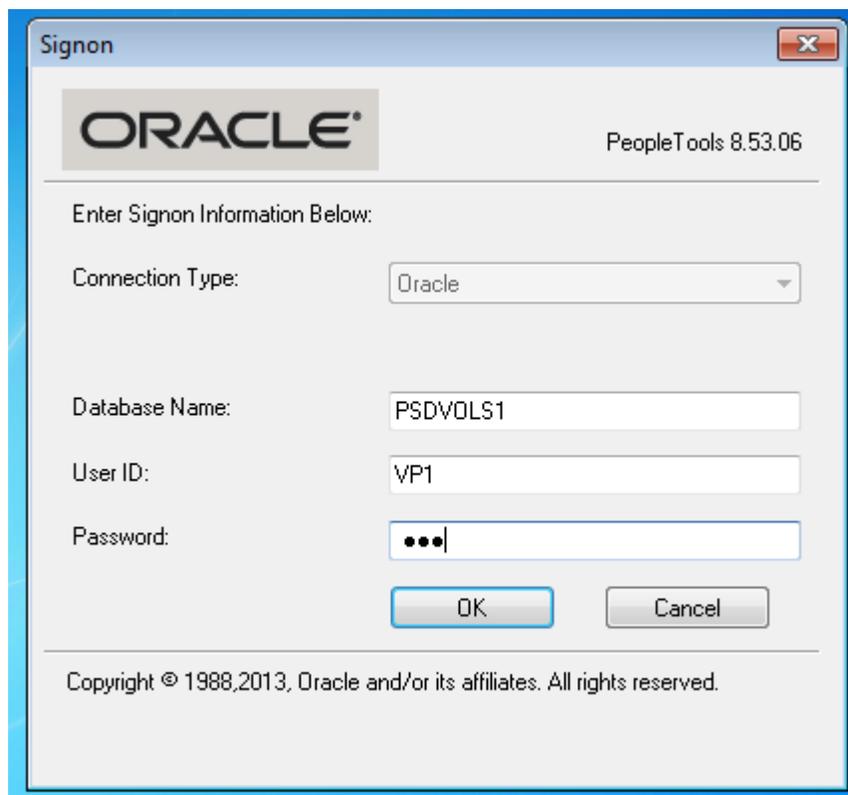
Importing PSFT Project

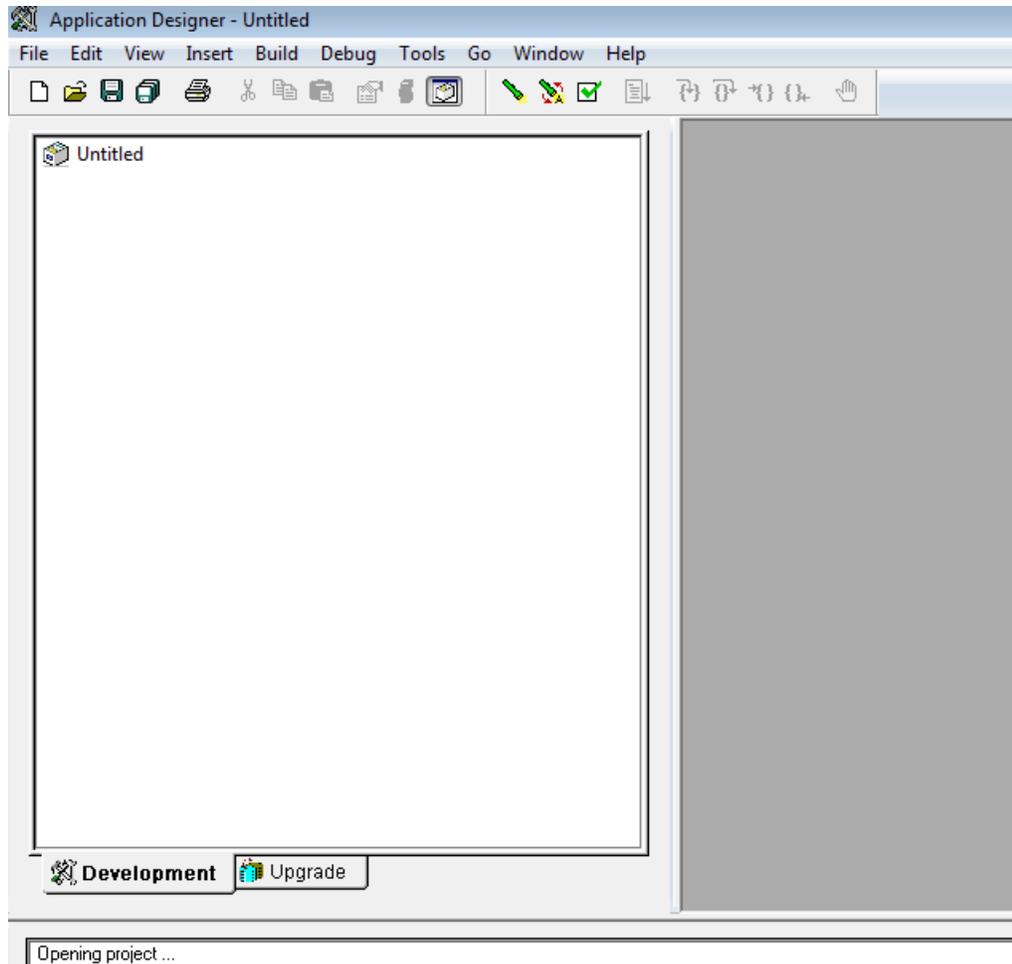
Importing the project can be done using Application Designer tool. Open the application designer from any windows work station. Refer the below screenshots.

Navigation: All Programs → PeopleTools 8.x → Application Designer

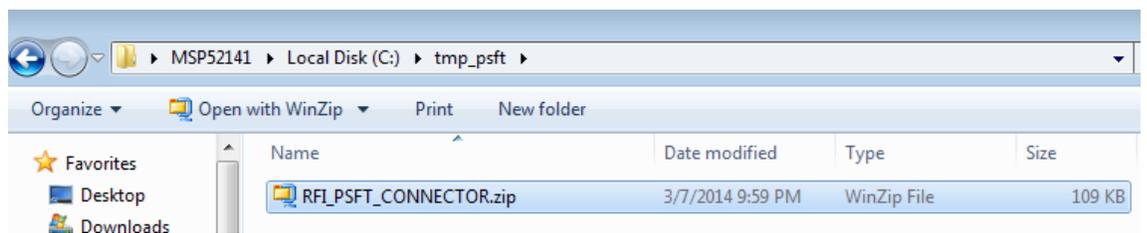


1. Enter the PeopleSoft DB name (E.g. PSDVOLS1), Application User Id and Password (E.g. VP1/VP1)

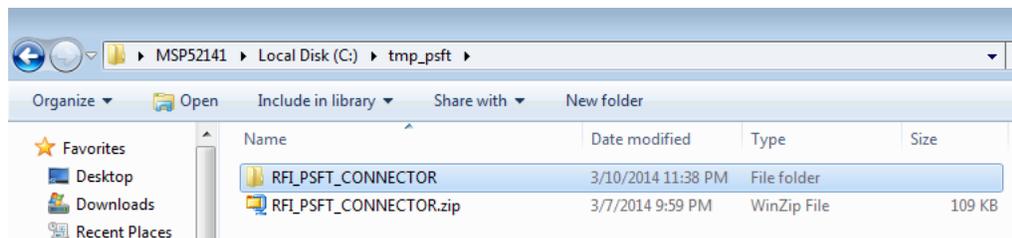




2. Copy the project file (zip file) in any folder in the workstation available under the <INSTALL_DIR>/psft-financial/psft-integration-broker/src/main/resources/RFI_PSFT_CONNECTOR



3. Unzip the file in any folder as required



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:

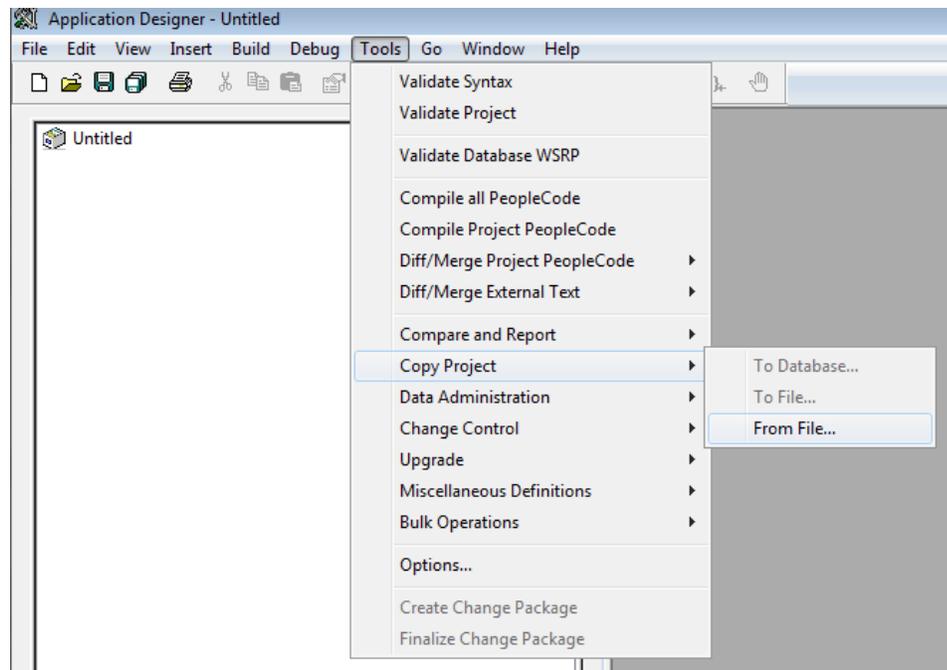
- Copy a project that does not exist in the database from a file.
- Copy a project that does exist in the database from a file.

b. Copy a project that does not exist in the database from a file.

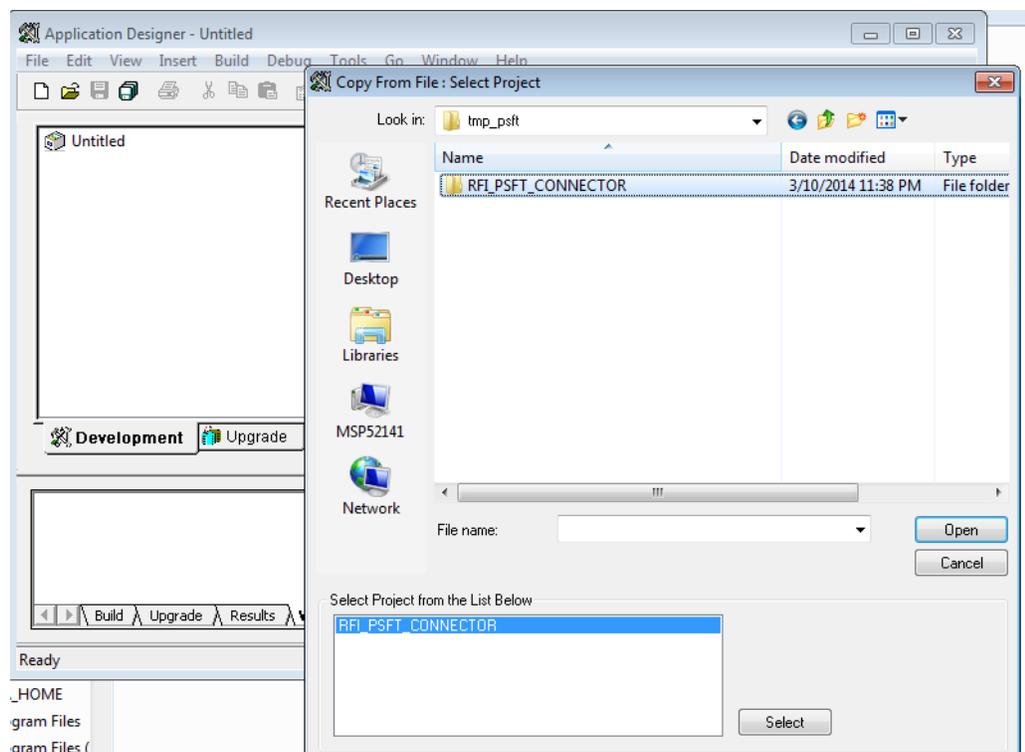
- i. Select select Tools, then select Copy Project, then select From File.
- ii. The Copy From File: Select Project dialog box appears.
- iii. Browse to locate the project file or select the file from the Projects list.

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

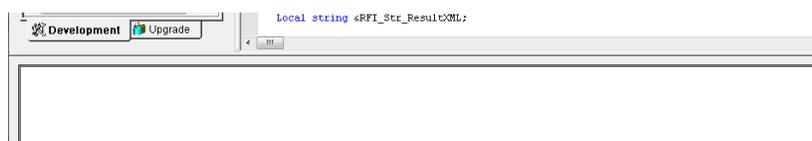
Note: You can copy only one project from a file at a time.



iv. Select the Project File Folder



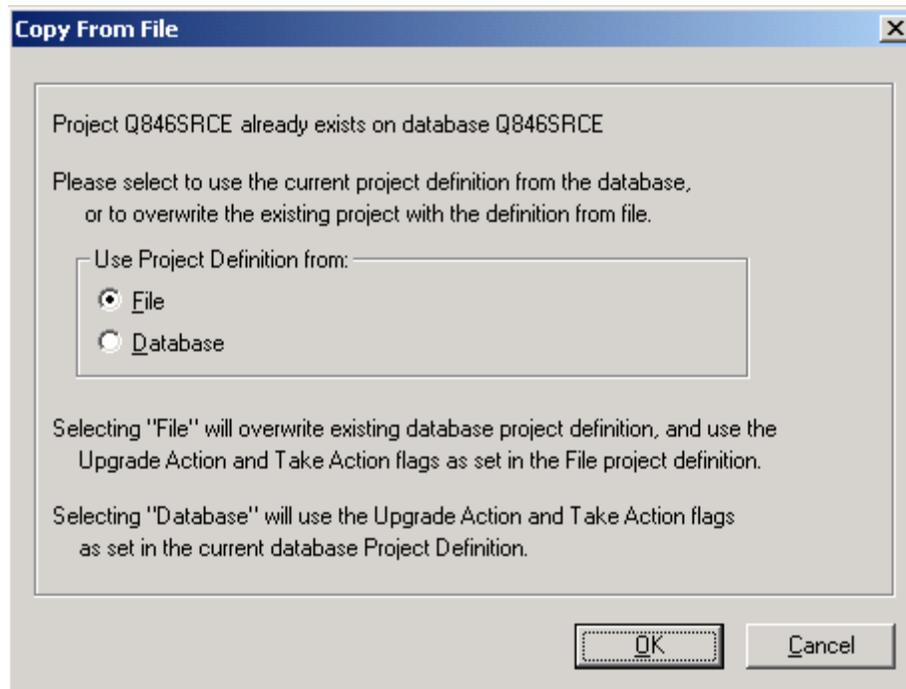
- v. Select the Override Pre-Requisites check box if required.
You can select the Override Pre-Requisites check box if you want the system not to check for project prerequisites and apply the project regardless of prerequisites that have not been applied.
- vi. Click Copy.
There are two phases to the 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.



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 skipped if previously mentioned steps are executed i.e. Copy a project that does not exist in the database from a file are executed

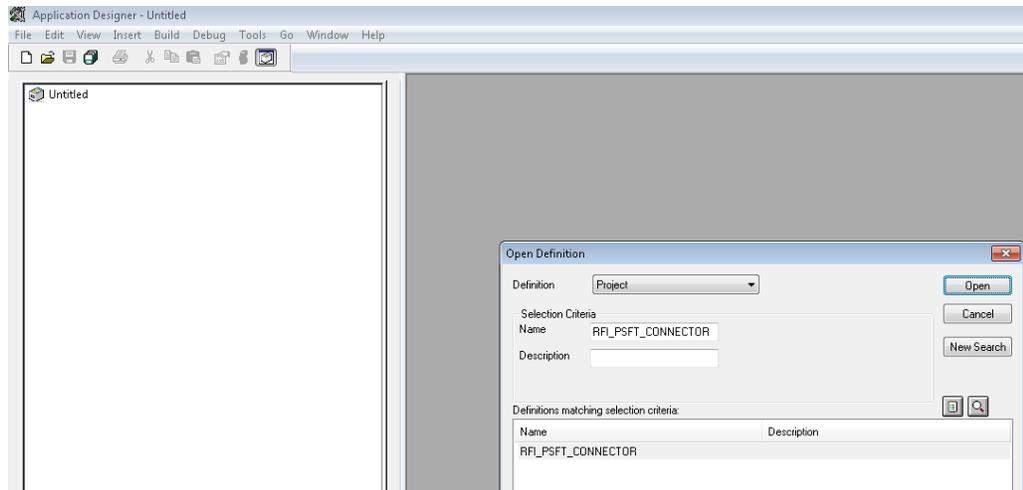
- c. Copy a project that does exist in the database from a file.
 The process for copying a project from a file when a project of the same name exists in the database is slightly different. After selecting Tools, Copy Project, From File and a project of the same name already exists in the database to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



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.



- b. All record objects in project RFI_PSFT_CONNECTOR needs to be built. Select Build → Project menu.

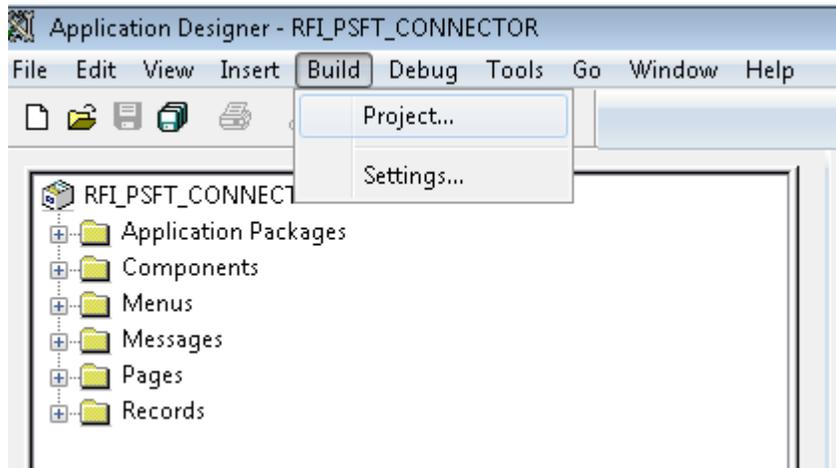
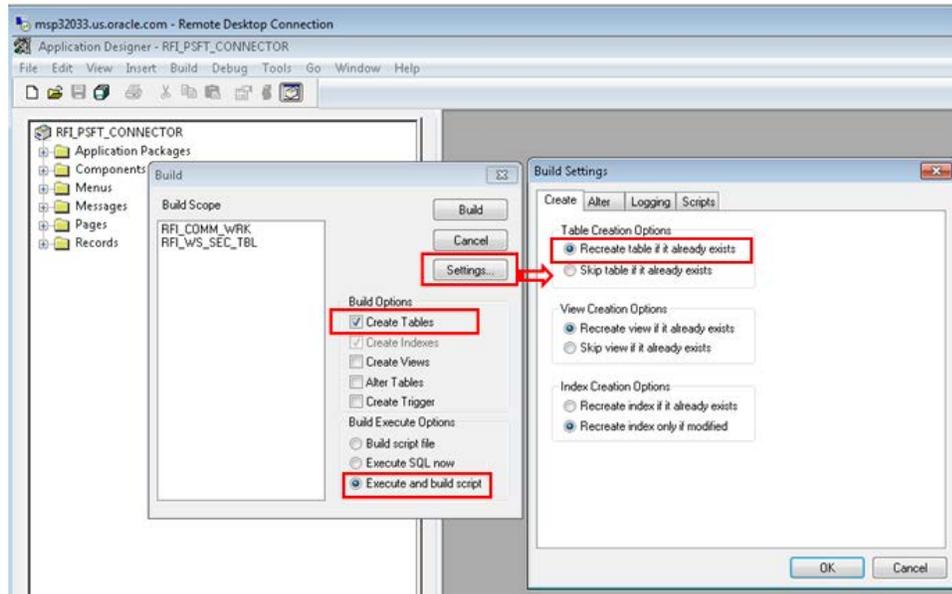
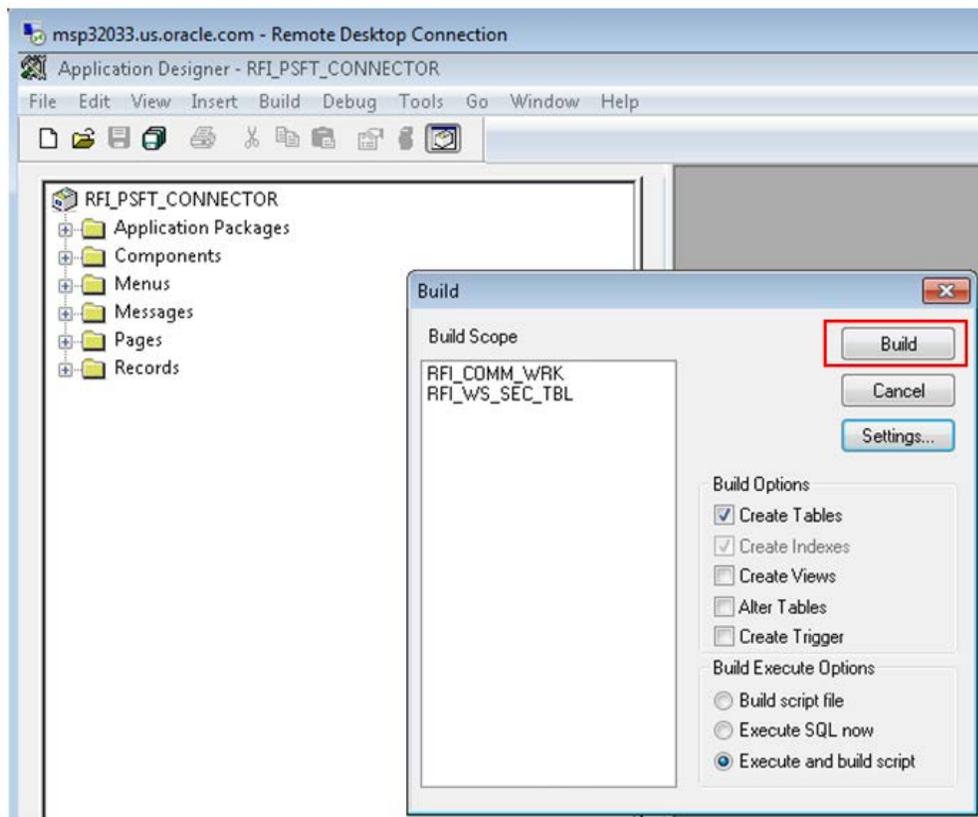


Fig 2

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

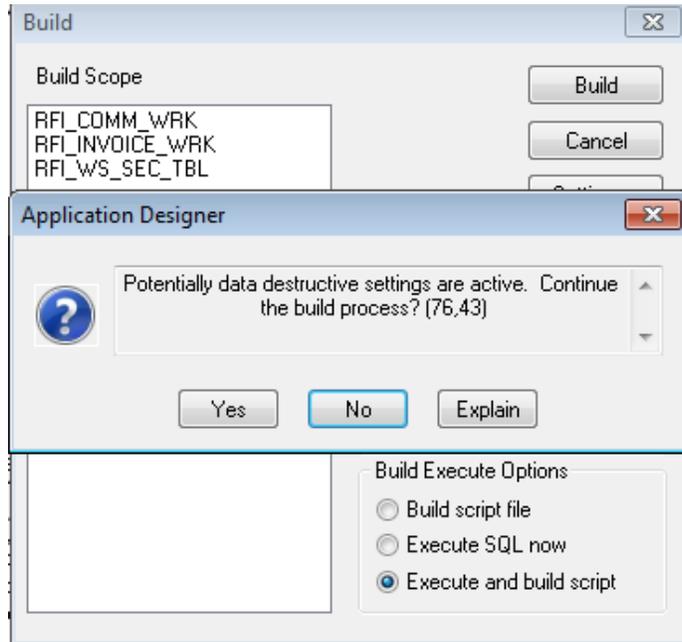


d. Click on Build button to build the records.



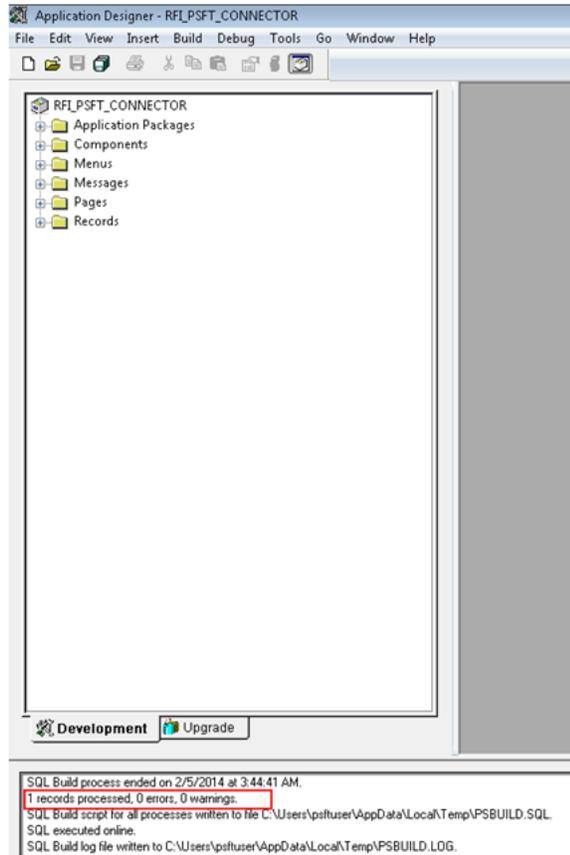
The following system message appears: “Potentially data destructive settings are active. Continue the build process?”

- e. Click yes to continue.

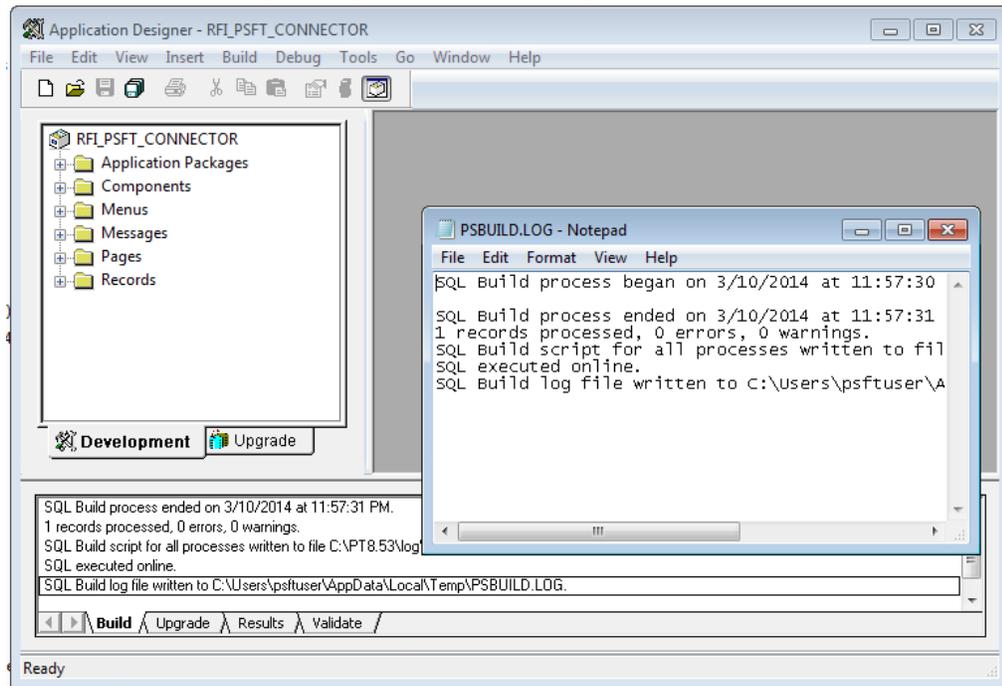


The log file should show one record processed, 0 errors, 0 warnings. If any error, click on PSBUILD.log to know more details.

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



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 → PeopleTools → Integration Broker → Integration Setup → Services

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

Services - Search

Search Criteria

Service: Add a New Value

REST Service

Search

Service	Service Alias	Object Owner ID	Description
SUPPLIERBUSINESSEVENTHANDLERSE	SupplierBusinessEventHandlerService		SUPPLIERBUSINESSEVENTHANDLERSE

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

[Favorites](#) > [Main Menu](#) > [PeopleTools](#) > [Integration Broker](#) > [Integration Setup](#) > [Services](#)

ORACLE

Services

Service: SUPPLIERBUSINESSEVENTHANDLERSE REST Service Type

*Description: **SUPPLIERBUSINESSEVENTHANDLER**

Comments: SUPPLIERBUSINESSEVENTHANDLERSERVICE

Service Alias: SupplierBusinessEventHandlerSe

Owner ID:

*Namespace: http://www.oracle.com/retail/rfi/psft/connector/service

[Link Existing Operations](#) [View WSDL](#)

Service Operations

Service Operation:

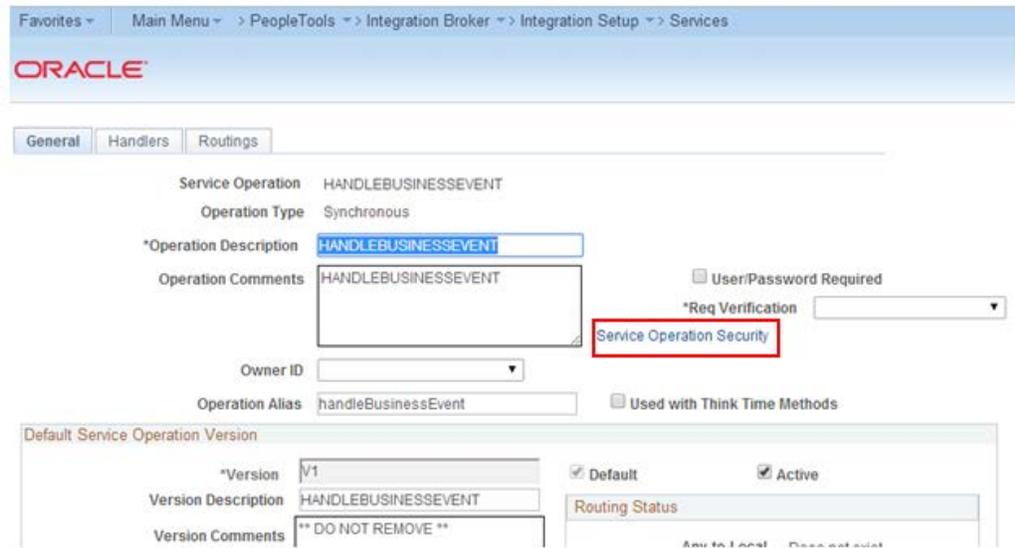
Operation Type: Add

Existing Operations [Personalize](#) | [Find](#) | [View All](#) | [Print](#) | [Calendar](#) First 1 of 1 Last

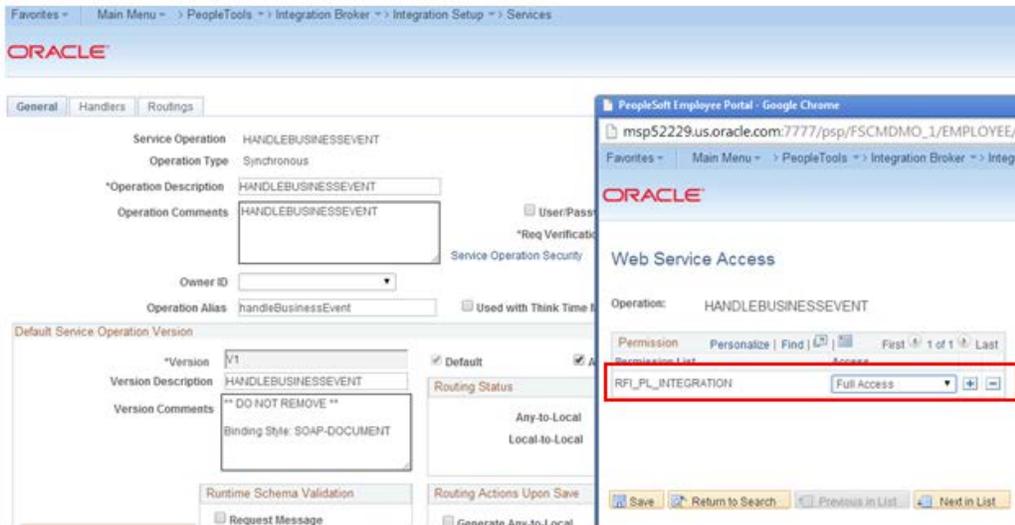
Operation.Default Version	Description	Active	Operation Type
HANDLEBUSINESSEVENT.V1	HANDLEBUSINESSEVENT	<input checked="" type="checkbox"/>	Synch <input type="button" value="-"/>

 [Return to Search](#)

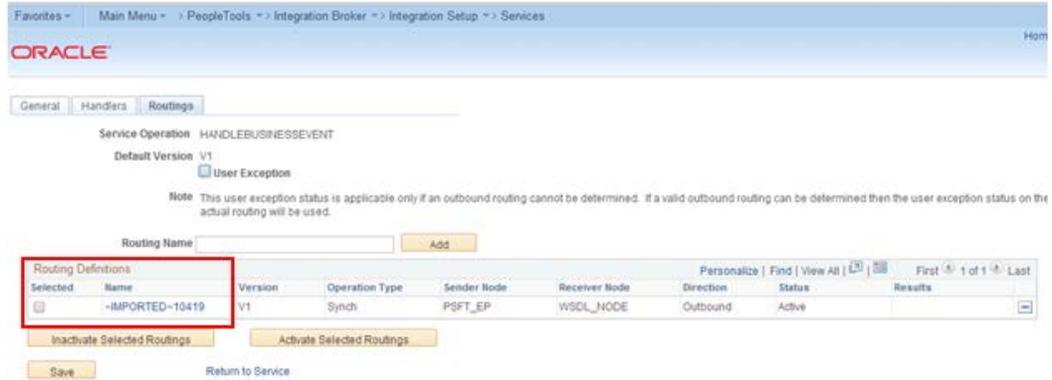
- From the Service Operation Definition page, click on Service Operation Security link. This will open a popup window.



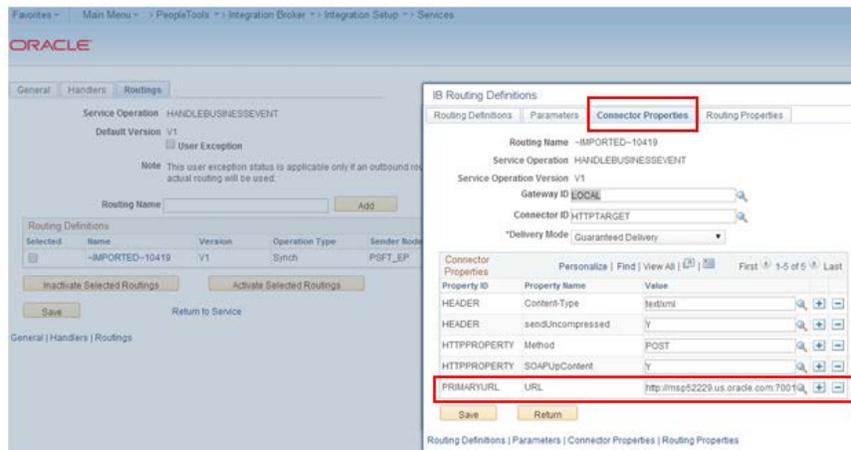
- From the Service Operation Web Service Access page, add the permission list – RFI_PL_INTEGRATION (if not available already) to WebService access with full access and click Save.



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



- 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.



Payment Terms

Service: PAYTERMBUSINESSEVENTHANDLERSER

Service Operation: HANDLEBUSINESSEVENT10485

Navigation: Main Menu → PeopleTools → Integration Broker → Integration Setup → Services

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



Services - Search

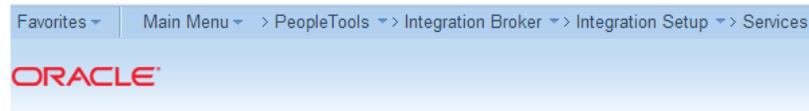
Search Criteria

Service: [Add a New Value](#)

REST Service

Service	Service Alias	Object Owner ID	Description
PAYTERMBUSINESSEVENTHANDLERSER	PayTermBusinessEventHandlerService		PAYTERMBUSINESSEVENTHANDLERSER

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



Services

Service: PAYTERMBUSINESSEVENTHANDLERSER REST Service Type

*Description:

Comments:

Service Alias:

Owner ID:

*Namespace:

[Link Existing Operations](#) [View WSDL](#)

Service Operations

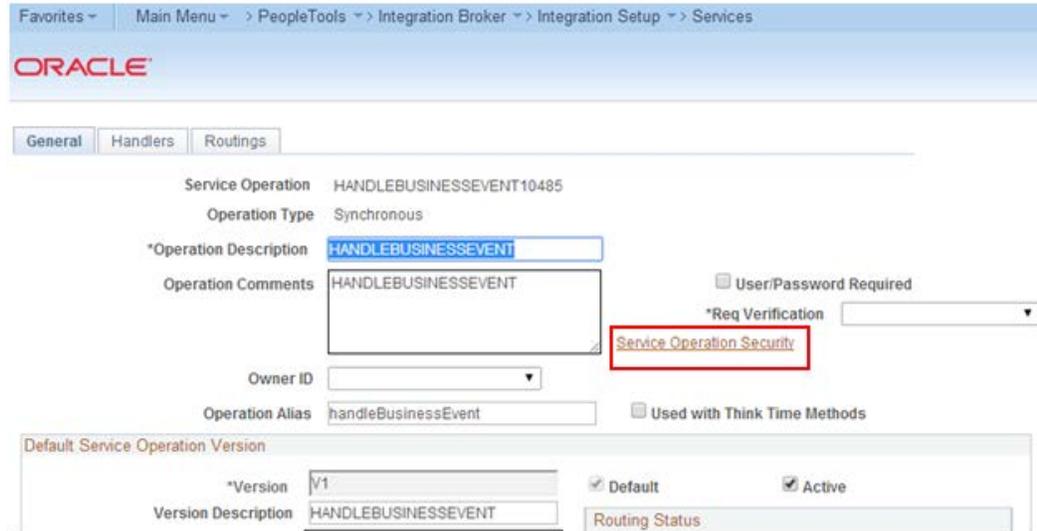
Service Operation:

Operation Type:

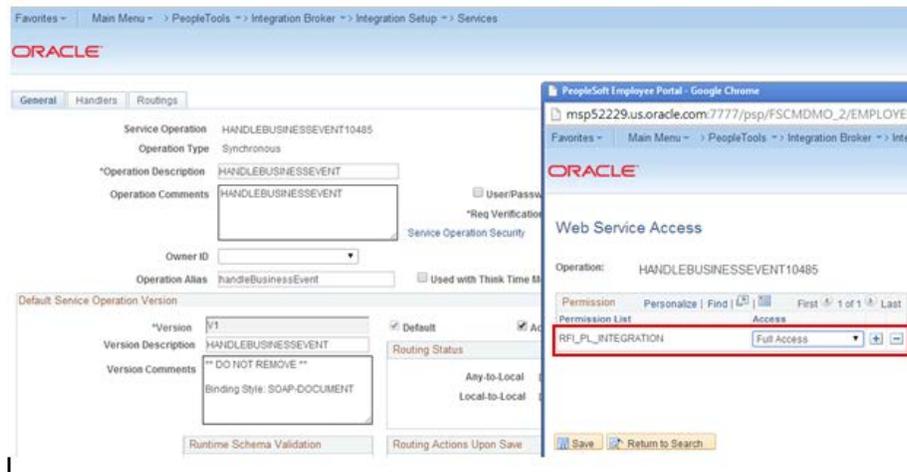
Operation	Message Links	Active	Operation Type
HANDLEBUSINESSEVENT10485.V1		<input checked="" type="checkbox"/>	Synch

[Return to Search](#)

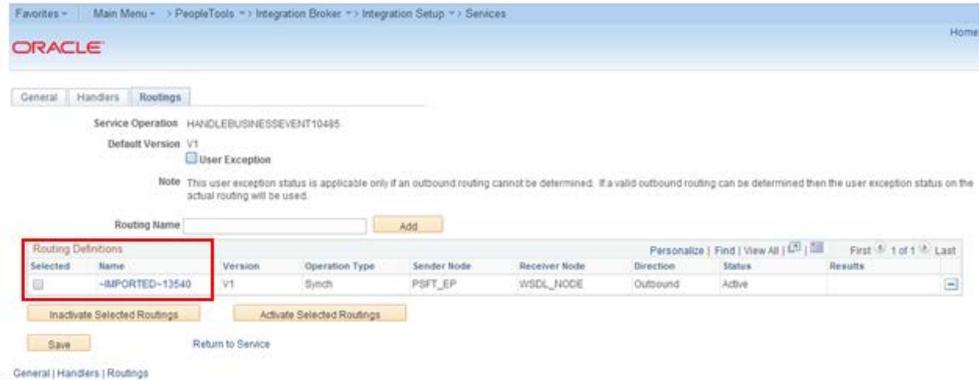
- From the Service Operation Definition page, click the Service Operation Security link. This will open a popup window.



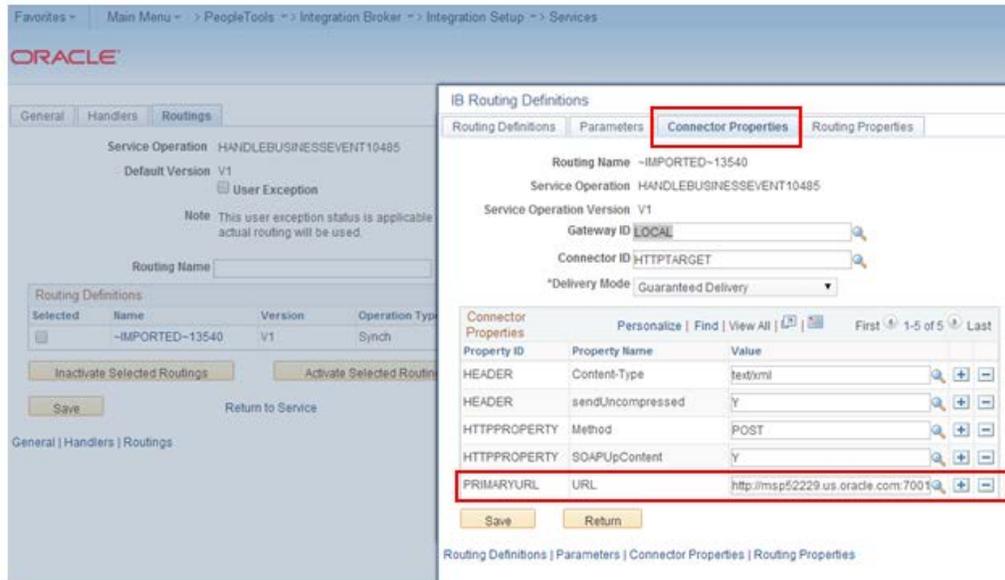
- From the Service Operation Web Service Access page, add Permission list – RFI_PL_INTEGRATION (if not already available) to WebService access with full access and click on Save.



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



- 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.



Currency Rate

Service: CURRENCYRATEBUSINESSEVENTHANDL

Service Operation: HANDLEBUSINESSEVENT10159

Navigation: Main Menu → PeopleTools → Integration Broker → Integration Setup → Services

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

Services - Search

Search Criteria

Service: CURRENCYRATEBUSINESSEVENTHANDL

REST Service

Search

Service	Service Alias	Object Owner ID	Description
CURRENCYRATEBUSINESSEVENTHANDL	CurrencyRateBusinessEventHandlerService		CURRENCYRATEBUSINESSEVENTHANDL

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

Services

Service: CURRENCYRATEBUSINESSEVENTHANDL REST Service Type

*Description: CURRENCYRATEBUSINESSEVENTHANDL

Comments: CURRENCYRATEBUSINESSEVENTHANDLSEERVICE

Service Alias: CurrencyRateBusinessEventHandl

Owner ID: [Dropdown]

*Namespace: http://www.oracle.com/retail/rfi/psft/connector/service

Link Existing Operations | View WSDL

Service Operations

Service Operation: [Text Box]

Operation Type: [Dropdown] Add

Existing Operations

Operation	Message Links	Operation.Default Version	Description	Active	Operation Type
HANDLEBUSINESSEVENT10159.V1			HANDLEBUSINESSEVENT	<input checked="" type="checkbox"/>	Synch

Save | Return to Search | Add

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

Service Operation: HANDLEBUSINESSEVENT10159
 Operation Type: Synchronous
 *Operation Description: HANDLEBUSINESSEVENT
 Operation Comments: HANDLEBUSINESSEVENT
 Owner ID: [Dropdown]
 Operation Alias: handleBusinessEvent
 User/Password Required:
 *Req Verification: [Dropdown]
Service Operation Security
 Used with Think Time Methods:

Default Service Operation Version

*Version: V1
 Version Description: HANDLEBUSINESSEVENT
 Version Comments: ** DO NOT REMOVE **
 Binding Style: SOAP-DOCUMENT

Default Active

Routing Status	
Any-to-Local	Does not exist
Local-to-Local	Does not exist

Runtime Schema Validation: [Dropdown]
 Routing Actions Upon Save: [Dropdown]

- 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.

Service Operation: HANDLEBUSINESSEVENT10159
 Operation Type: Synchronous
 *Operation Description: HANDLEBUSINESSEVENT
 Operation Comments: HANDLEBUSINESSEVENT
 Owner ID: [Dropdown]
 Operation Alias: handleBusinessEvent
 User/Password Required:
 *Req Verification: [Dropdown]
 Service Operation Security
 Used with Think Time Methods:

Default Service Operation Version

*Version: V1
 Version Description: HANDLEBUSINESSEVENT
 Version Comments: ** DO NOT REMOVE **
 Binding Style: SOAP-DOCUMENT

Default Active

Routing Status	
Any-to-Local	Does not exist
Local-to-Local	Does not exist

Runtime Schema Validation: [Dropdown]
 Routing Actions Upon Save: [Dropdown]

Web Service Access

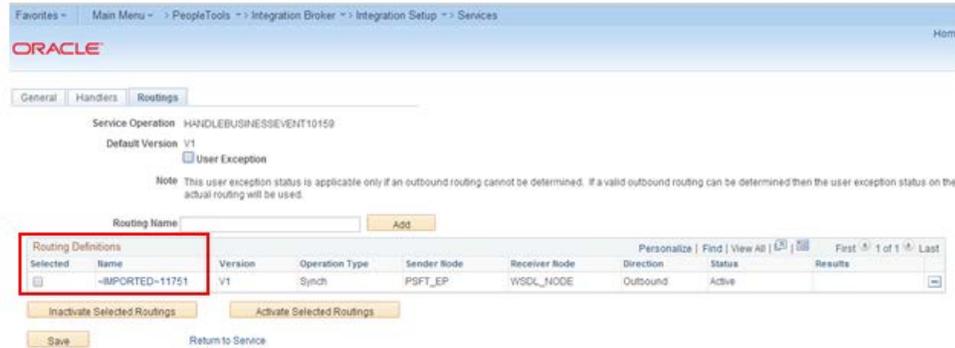
Operation: HANDLEBUSINESSEVENT10159

Permission	Personalize	Find	First	1 of 1	Last
RFI_PL_INTEGRATION					

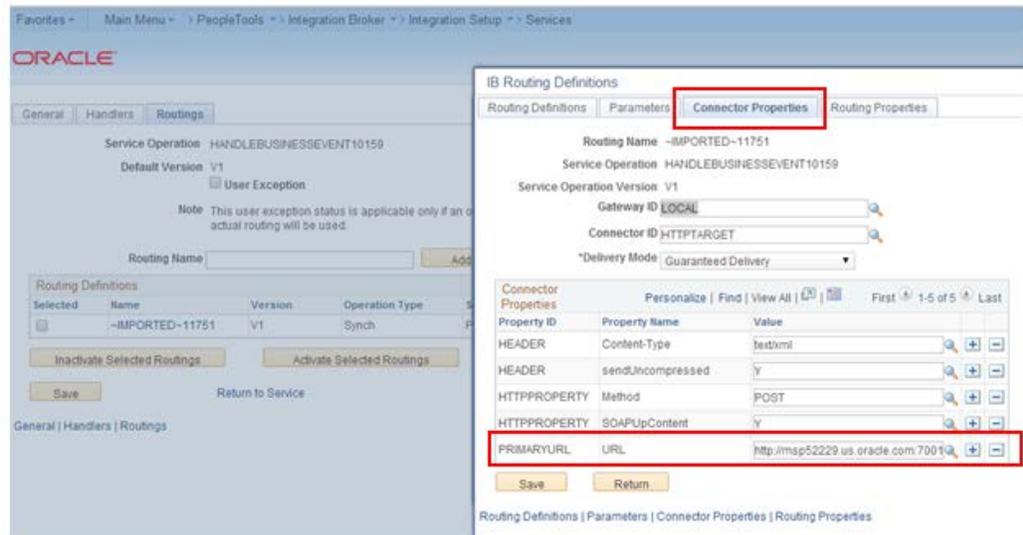
Full Access [Dropdown] [Add] [Remove]

Save [Return to Search]

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



- 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.



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 → PeopleTools → Integration Broker → Integration Setup → 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 → PeopleTools → Integration Broker → Integration Setup → Services

Services - Search

Search Criteria

Service:

REST Service

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.

Services

Service: COMBO_CF_EDIT_REQUEST REST Service Type

*Description:

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:

Owner ID:

*Namespace:

Link Existing Operations View WSDL Provide Web Service Generate SOAP Template

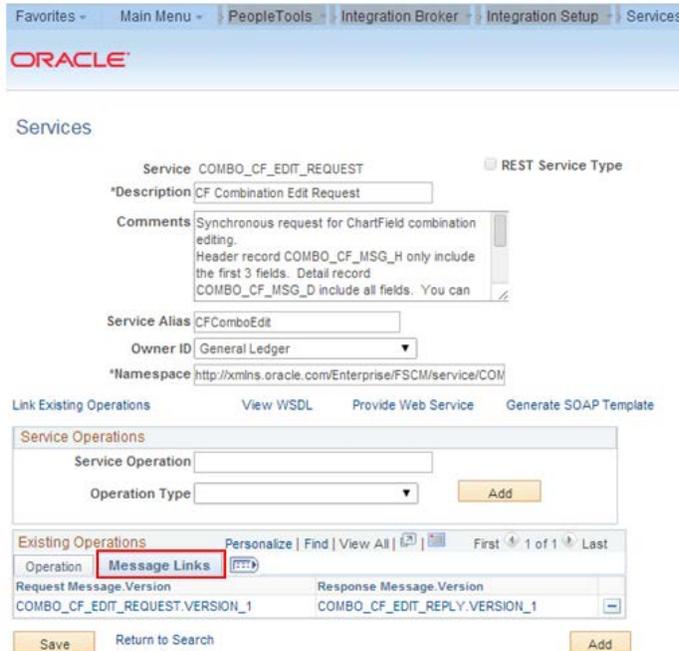
Service Operations

Service Operation:

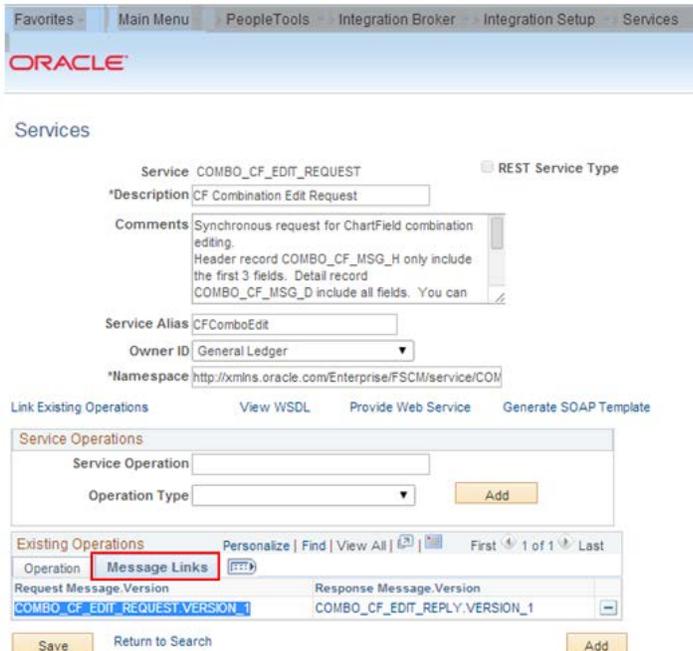
Operation Type:

Operation	Message Links	Description	Active	Operation Type
COMBO_CF_EDIT_REQUEST.VERSION_1		CF Combination Edit Request	<input checked="" type="checkbox"/>	Synch

c. Click the Message Links tab.



d. Click the Request Message - COMBO_CF_EDIT_REQUEST.VERSION_1 link. It will open a popup window.



- 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.

The screenshot shows the Oracle PeopleTools Integration Broker interface for defining a message. The breadcrumb path is: Favorites > Main Menu > PeopleTools > Integration Broker > Integration Setup > Services. The Oracle logo is visible at the top. The interface has two tabs: 'Message Definition' (active) and 'Schema'. A warning icon is present. The status is 'Message cannot be changed. Message used in exported WSDL.' A warning message states 'Structure references work records.' The message details are: Message: COMBO_CF_EDIT_REPLY, Version: VERSION_1, Description: CF Combination Edit Reply, Owner ID: General Ledger. The comments field contains: 'Synchronous reply for ChartField combination editing request. Header record COMBO_CF_MSG_H excludes the first 3 fields. Detail record'. On the right, the 'Schema Exists' checkbox is checked and set to 'Yes'. Other options include 'Part Message', 'Exclude Description in Schema', 'Single Level 0 Row', 'Include Namespace' (checked), and 'Suppress Empty XML Tags'. The 'Message Type' dropdown is set to 'Rowset-based'. At the bottom, there are buttons for 'Save' and 'Save As', a 'Return to Search' link, and a navigation bar with 'Message Definition | Schema'.

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

Services - Search

Search Criteria

Service: Add a New Value

REST Service

Search

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.

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

Service Alias: CFComboEdit

Owner ID: General Ledger

*Namespace: http://xmlns.oracle.com/Enterprise/FSCM/service/CO

Link Existing Operations View WSDL Provide Web Service Generate SOAP Template

Service Operations

Service Operation:

Operation Type: Add

Existing Operations Personalize Find View All First 1 of 1 Last

Operation	Message Links
Request Message.Version	Response Message.Version
COMBO_CF_EDIT_REQUEST.VERSION_1	COMBO_CF_EDIT_REPLY.VERSION_1

Save Return to Search 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_ResolvingInconsistenciesinExportedWSDLandWADLDocuments-067f83.html

The screenshot shows the Oracle PeopleTools Integration Broker interface. The breadcrumb navigation is: Favorites > Main Menu > PeopleTools > Integration Broker > Integration Setup > Services. The Oracle logo is visible in the top left. The page title is "Message Definition" and "Schema".

Warning: Structure references work records. [Explanation](#)

Message: COMBO_CF_EDIT_REPLY
Version: VERSION_1

Description: CF Combination Edit Reply
Owner ID: General Ledger

Comments: Synchronous reply for ChartField combination editing request. Header record COMBO_CF_MSG_H excludes the first 3 fields. Detail record

Service Operation References

View Records Only View Included Fields Only Add Record to Root

Left | Right

COMBO_CF_EDIT_REPLY
+ COMBO_CF_MSG_H

Save Save As

Return to Search

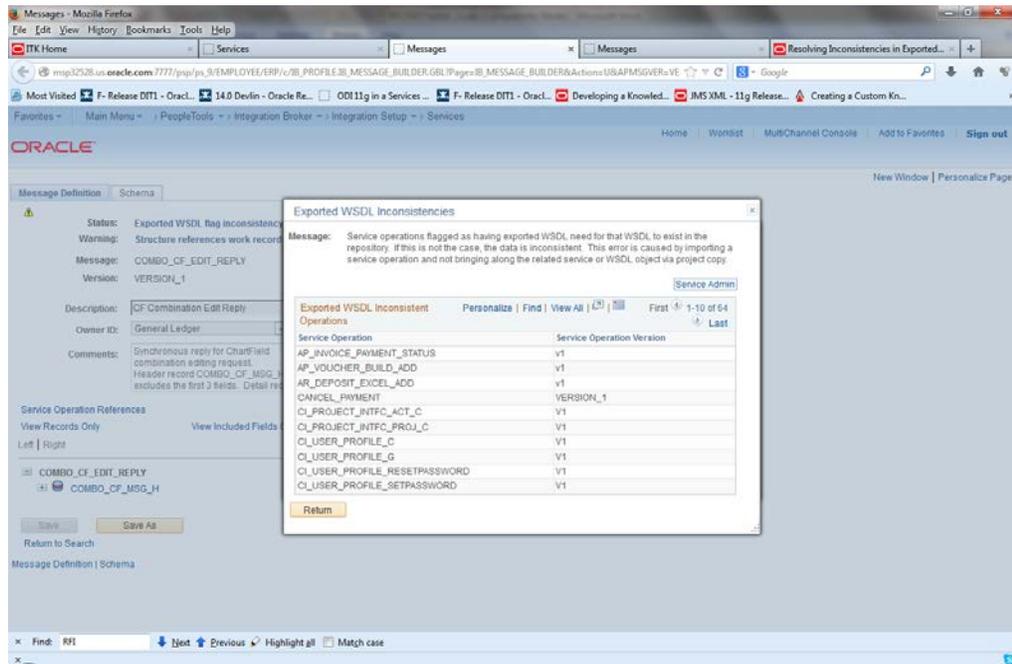
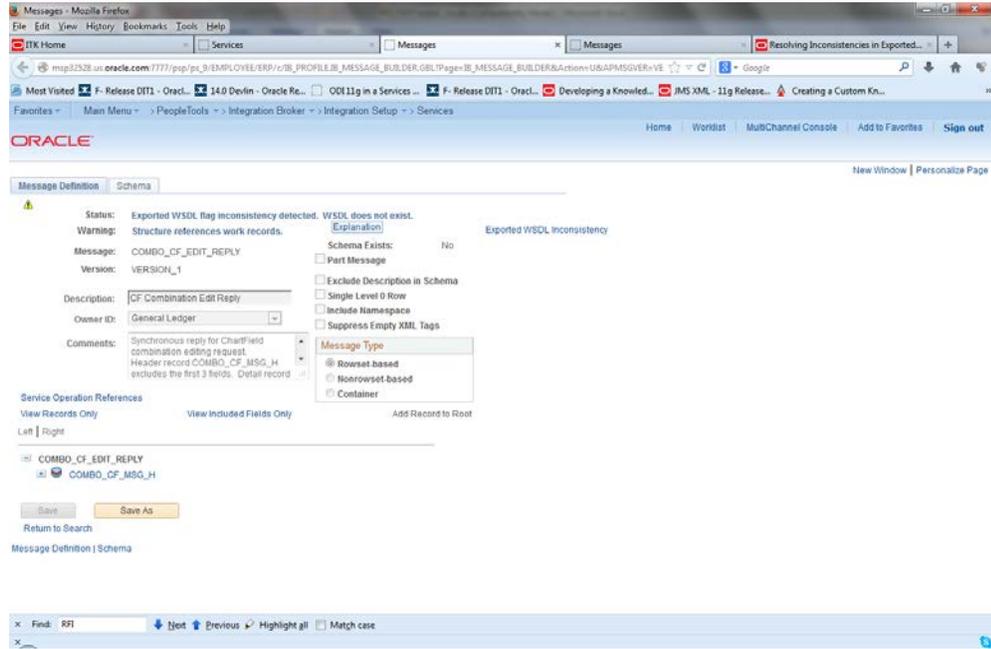
Message Type

- Rowset-based
- Nonrowset-based
- Container

Schema Exists: Yes

- Part Message
- Exclude Description in Schema
- Single Level 0 Row
- Include Namespace
- Suppress Empty XML Tags

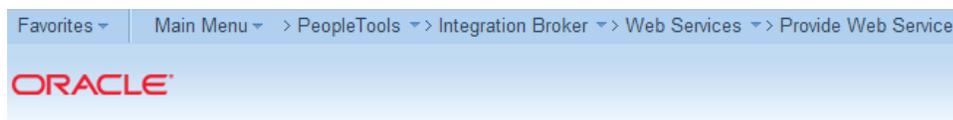
- d. Click the Service Admin link on top of this window. This will open a window, which has the clear wsdl export status link. After doing this, the Include Namespace option will be enabled on the Service – Message Definition page.



Provide Web Service

Navigation: Main Menu → PeopleTools → Integration Broker → Web Service → Provide Web Service

1. Open COMBO_CF_EDIT_REQUEST and click **Next**.



Provide Web Service Wizard Step 1 of 4



[Next >](#)

Select Services

Enter search criteria and click Search. Select one or more services you would like to provide.

Search Criteria

Service Name

Description

Object Owner ID

REST Service

[Search](#)

Search Results Find | View All | [1](#) First 1 of 1 Last

Service	Description
<input checked="" type="checkbox"/> 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



[< Previous](#) [Next >](#)

Select Service Operations

Select one or more operations for each service.

Service: COMBO_CF_EDIT_REQUEST Description: CF Combination Edit Request

Use Service Alias in WSDL Service Alias: CFComboEdit

Use Secure Target Location Generate WSDL 2.0

Operations Find | View All | [1](#) First 1 of 1 Last

Service Operation	Description	Operation Type	Request Message	Response Message	Fault Message
<input checked="" type="checkbox"/> 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](#) [Clear All](#)

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

Favorites ▾ Main Menu ▾ > PeopleTools ▾ > Integration Broker ▾ > Web Services ▾ > Provide Web Service

ORACLE

Provide Web Service Wizard Step 3 of 4

①—②—③—④ < Previous Next >

View WSDL

View the generated WSDL for each service.

Selected Services		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

ORACLE

Provide Web Service Wizard Step 4 of 4

①—②—③—④ < Previous Finish

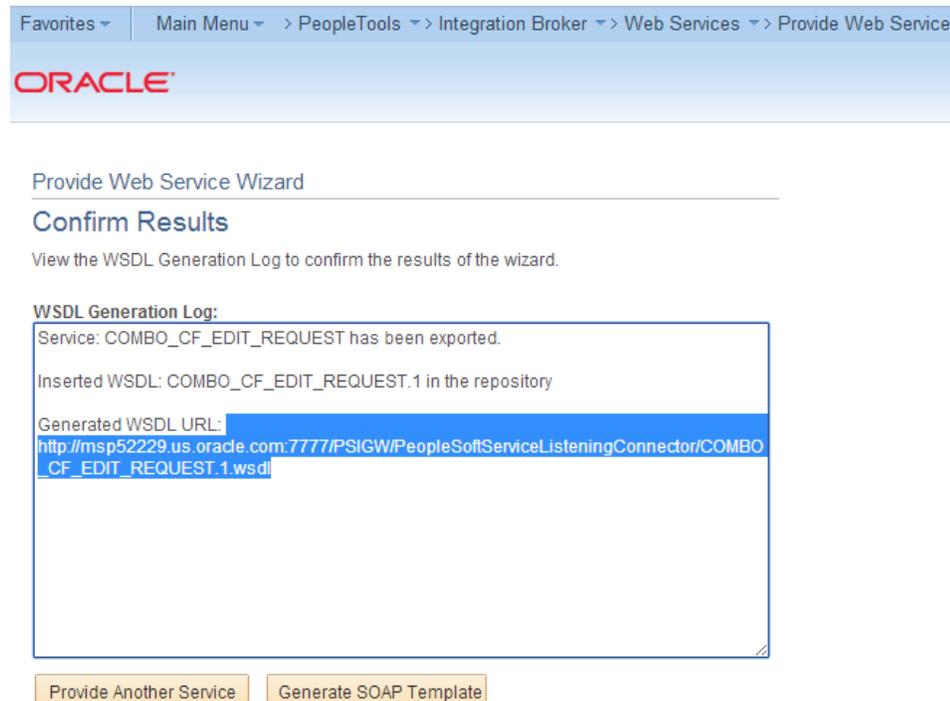
Specify Publishing Options

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 Service 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 → PeopleTools → Integration Broker → Integration Setup → 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 → PeopleTools → Integration Broker → Web Service → Provide Web Service

1. Open RFI_INV_DRILLFORWARD_SERVICE and click **Next**.

Provide Web Service Wizard Step 1 of 4

1 2 3 4 Next >

Select Services

Enter search criteria and click Search. Select one or more services you would like to provide.

Search Criteria

Service Name: begins with

Description: begins with

Object Owner ID: equals

REST Service

Search

Search Results Find | View All | First 1 of 1 Last

	Service	Description
<input checked="" type="checkbox"/>	RFI_INV_DRILLFORWARD_SERVICE	Invoice Voucher IDs

2. Select the Service Operation - RFIINVOICEDRILLFORWARDSERVICE.VERSION_1 and click **Next**.

Provide Web Service Wizard Step 2 of 4

1 2 3 4 < Previous | Next >

Select Service Operations

Select one or more operations for each service.

Service: RFI_INV_DRILLFORWARD_SERVICE | Description: Invoice Voucher IDs

Use Service Alias in WSDL | Service Alias: RfiInvoiceDrillForwardService

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
<input checked="" type="checkbox"/>	RFIINVOICEDRILLFORWARDSERVICE.VERSION_1	Invoice - Voucher ID	Synchronous	RFI_INV_DRILLFORWARD_REQUEST.VERSION_1	RFI_INV_DRILLFORWARD_RESPONSE.VERSION_1	

Select All Clear All

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

Provide Web Service Wizard Step 3 of 4

1 2 3 4 < Previous Next >

View WSDL

View the generated WSDL for each service.

Service	Description	
RFI_INV_DRILLFORWARD_SERVICE	Invoice Voucher IDs	View WSDL

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

Provide Web Service Wizard Step 4 of 4

1 2 3 4 < Previous 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 RFI.

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/RFI_INV_DRILLFORWARD_SERVICE.1.wsdl

[Provide Another Service](#) [Generate SOAP Template](#)

For example:

`http://hostname:portno/PSIGW/PeopleSoftServiceListeningConnector/RFI_INV_DRILLFORWARD_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-integration-solution/etl-based-integration folder to <INSTALL_DIR>/retail-financial-integration-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:

```
$INSTALL_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 tasks 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).

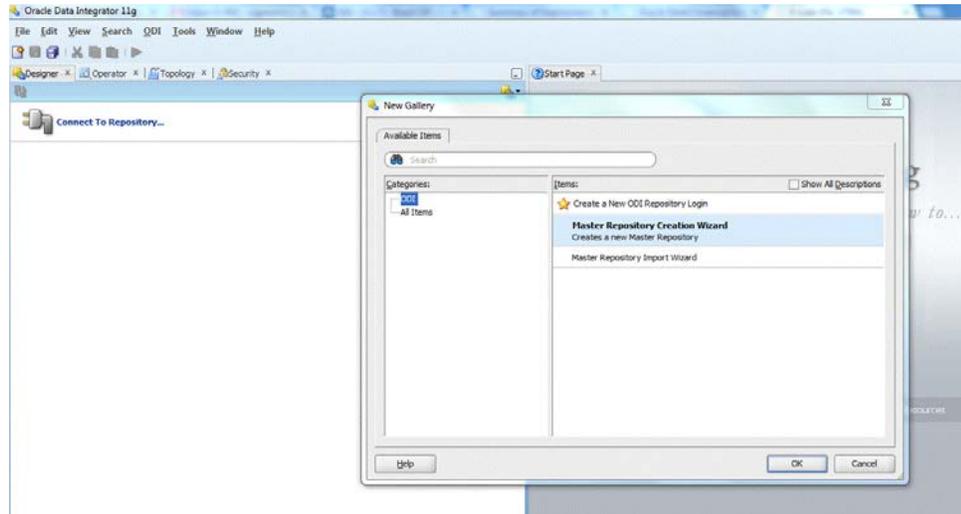
Note: These schema creation steps are done as part of “Create the ODI Staging Database User” in chapter 5.

- 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:

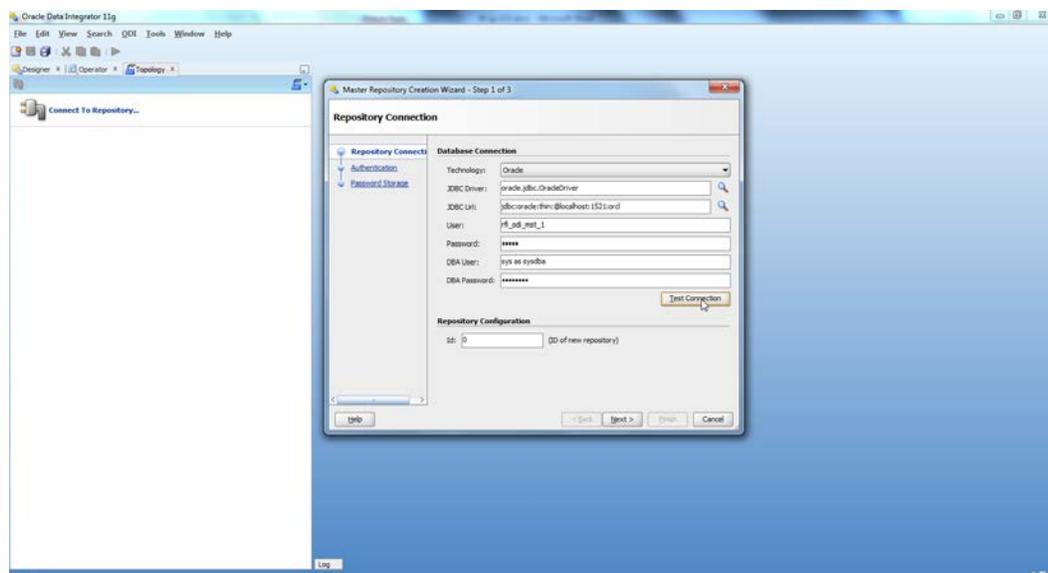
1. Launch Oracle Data Integrator (ODI) Studio to create a Master Repository:
Click File→New and select “Master Repository Creation Wizard” and click **OK**.



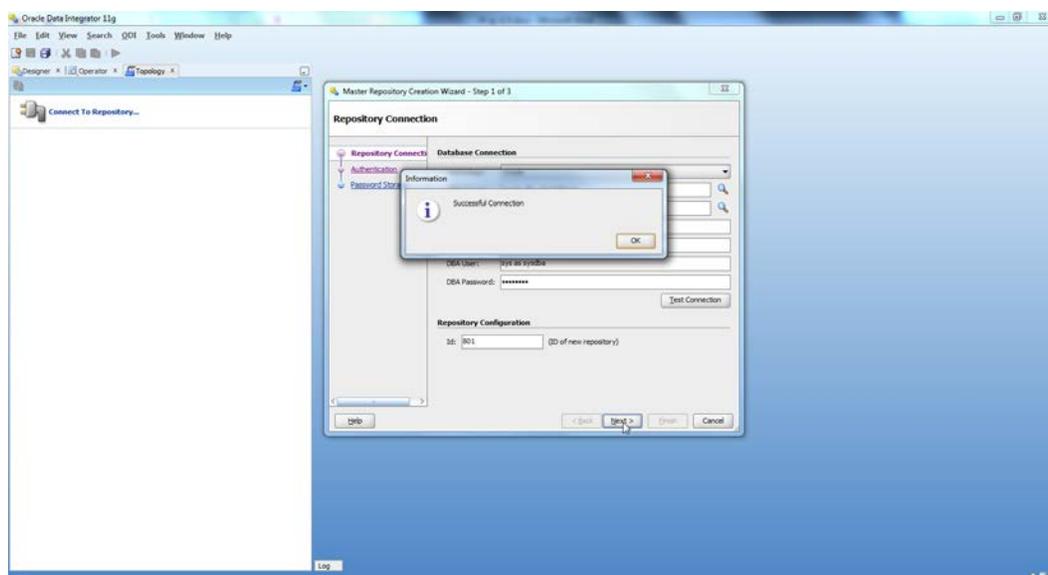
2. Enter the Master Repository Database connection details and click **Next**.
 - Database Connection – Enter valid Master Repository schema details.

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.

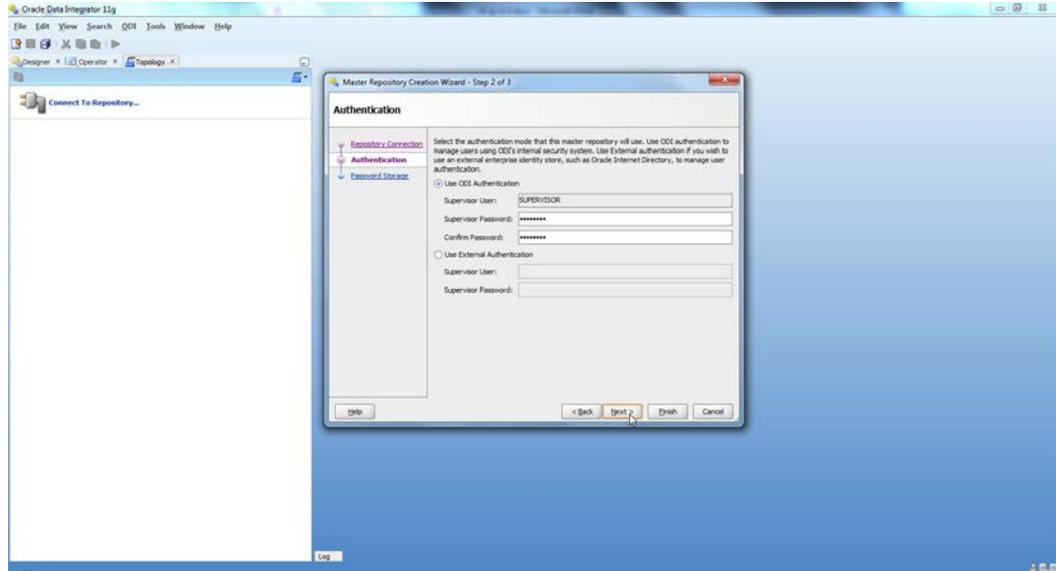


3. Test your credentials information using the **Test Connection** button. If you are successful, click **OK** in the Information popup and then click **Next**.

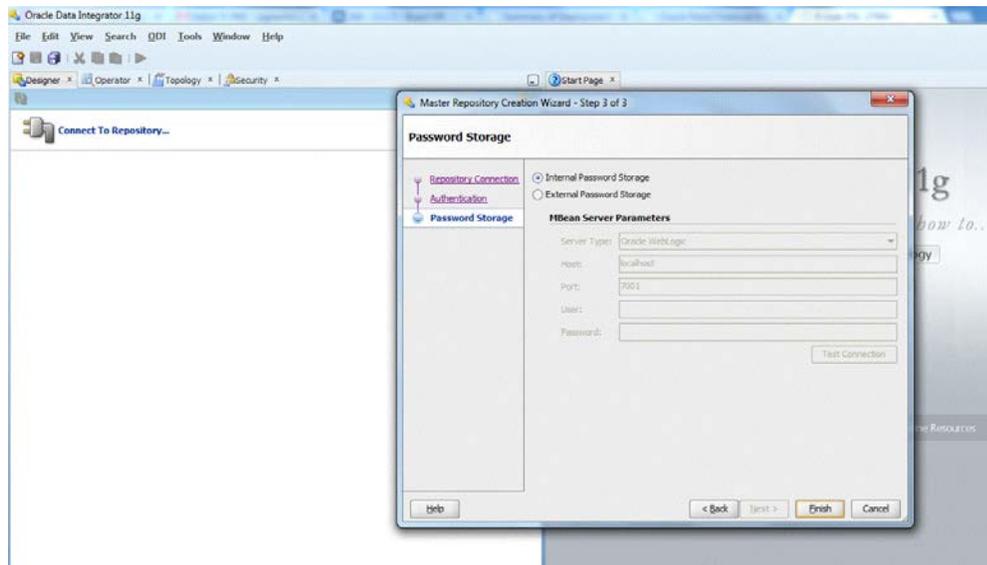


4. Enter *<supervisor password>* and click **Next**.

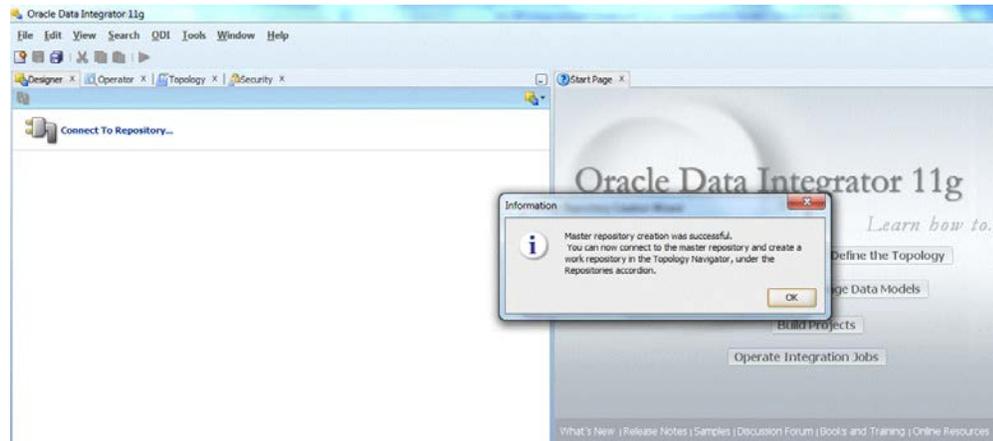
Note: This password will be used in further installation steps, so keep a record of it.



5. Click Finish.



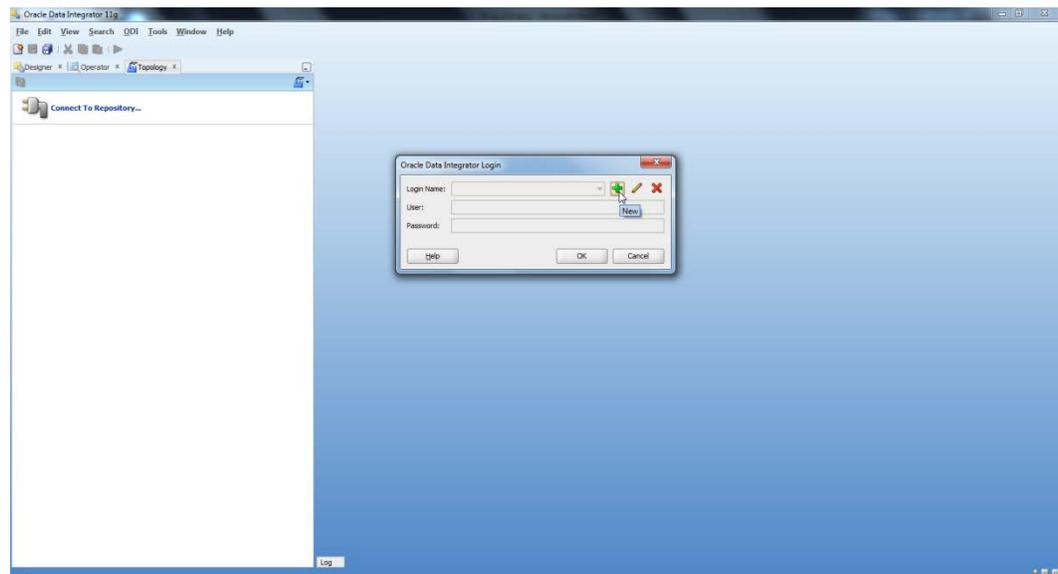
6. Click OK.



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.

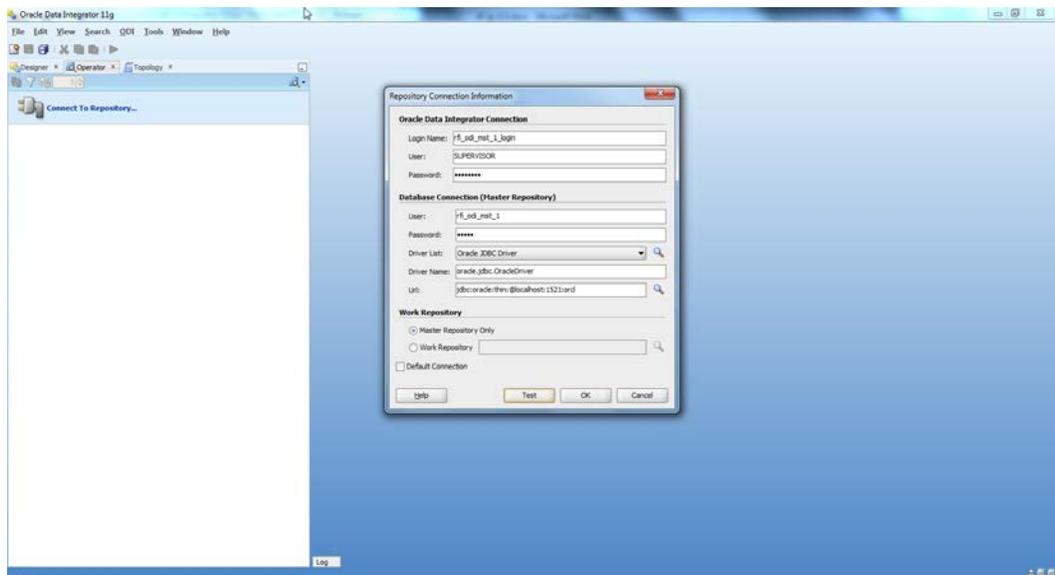


3. Update the Repository Connection Information as below:
 - a. Oracle Data Integrator Connection:
 - Login Name: <Login Name>
 - User: <Enter "SUPERVISOR" in this field>
 - Password: <supervisor password>

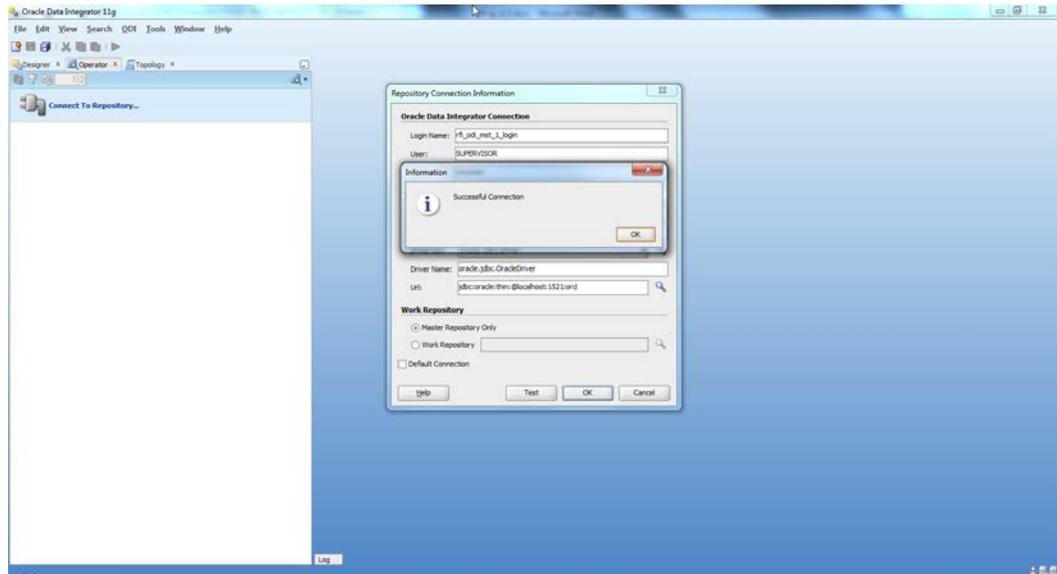
Note: See ODI documentation for information on users with the correct (supervisor level) permissions. The SUPERVISOR user is created by ODI and has the correct permissions by default.

- b. Database Connection (Master Repository):
- Enter Master Repository database credentials 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-deployment-env-info.json file) field as shown below:

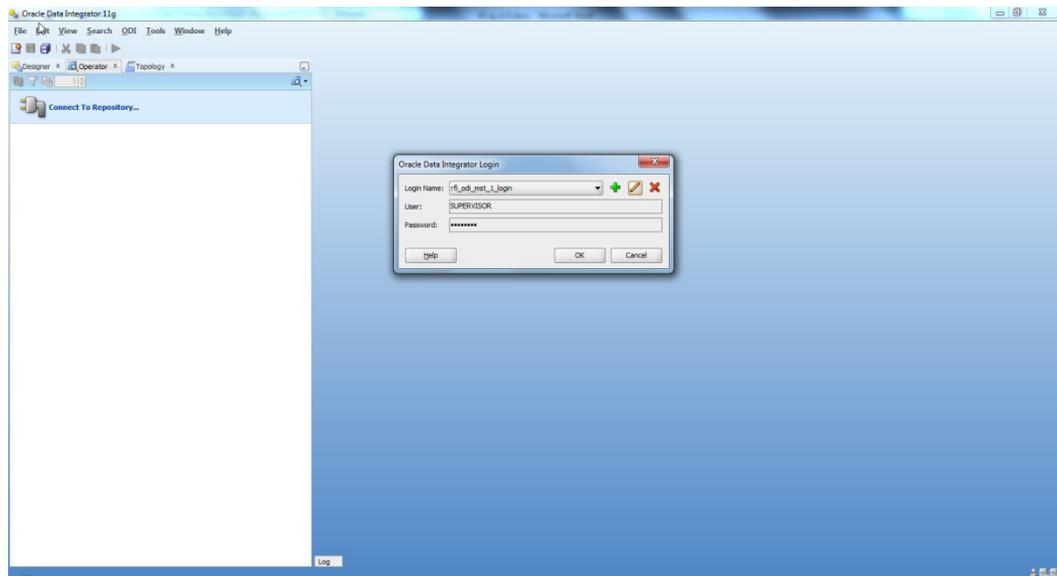
```
jdbc:oracle:thin:@<host>:<port>:<sid>
```
- c. Work Repository:
- Select the Master Repository Only option.



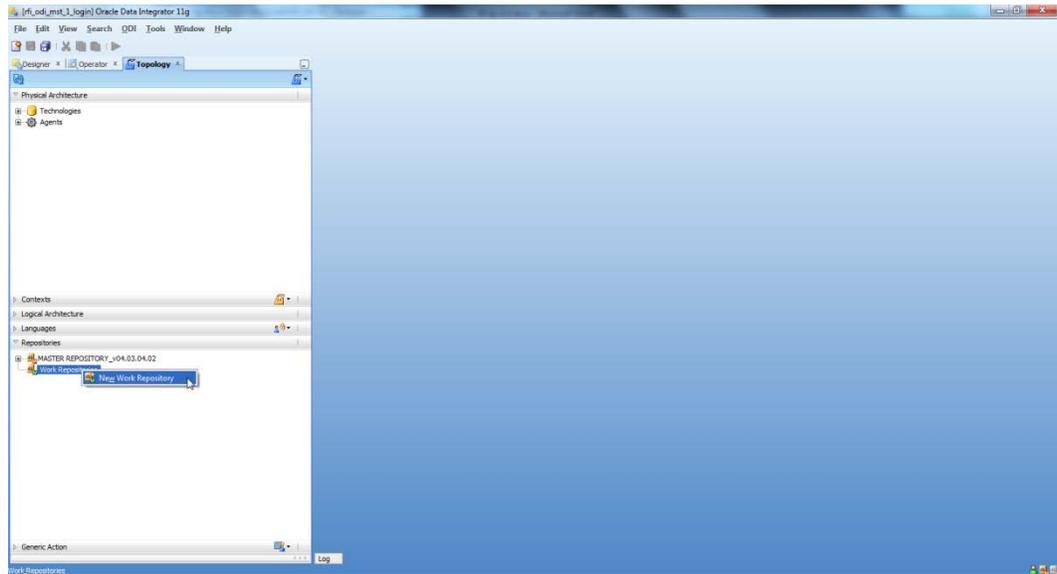
4. Test your credentials information using the **Test** button. If you are successful then click **OK**.



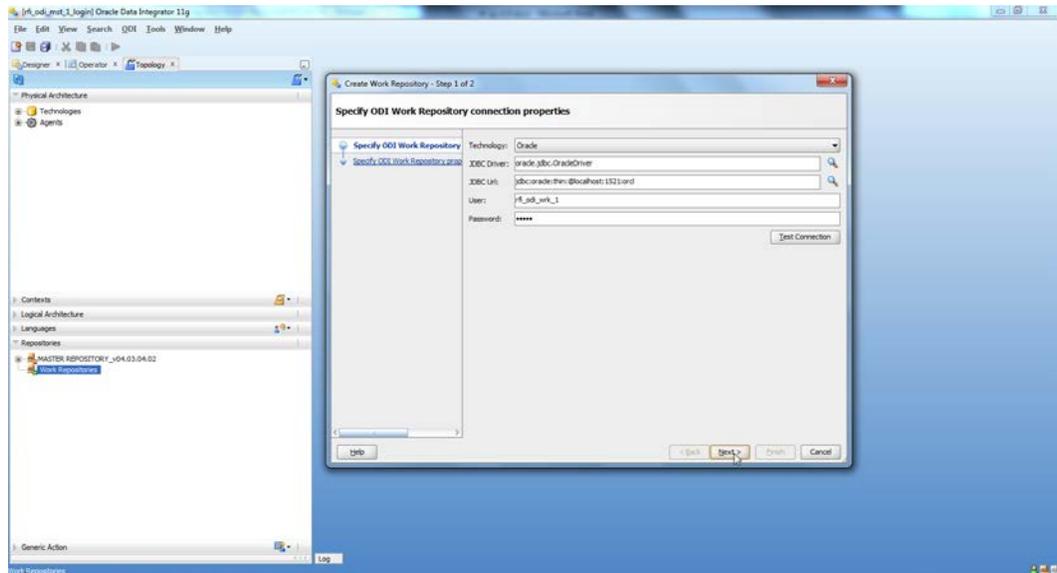
5. Select **OK** from Oracle Data Integrator Login dialog.



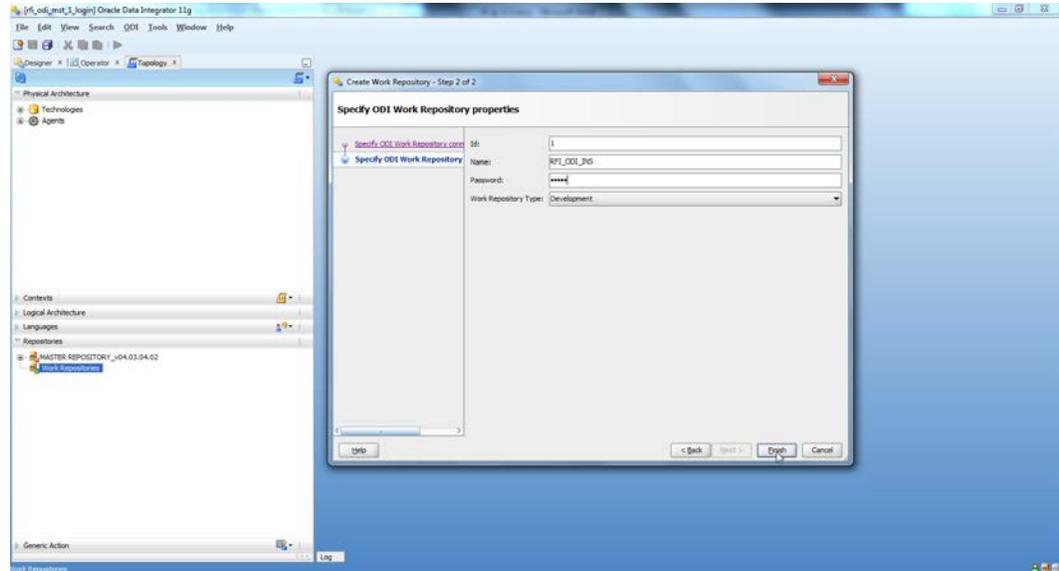
- From the Topology tab, select Repositories and then right-click on the Work Repositories. Select the New Work Repository option.



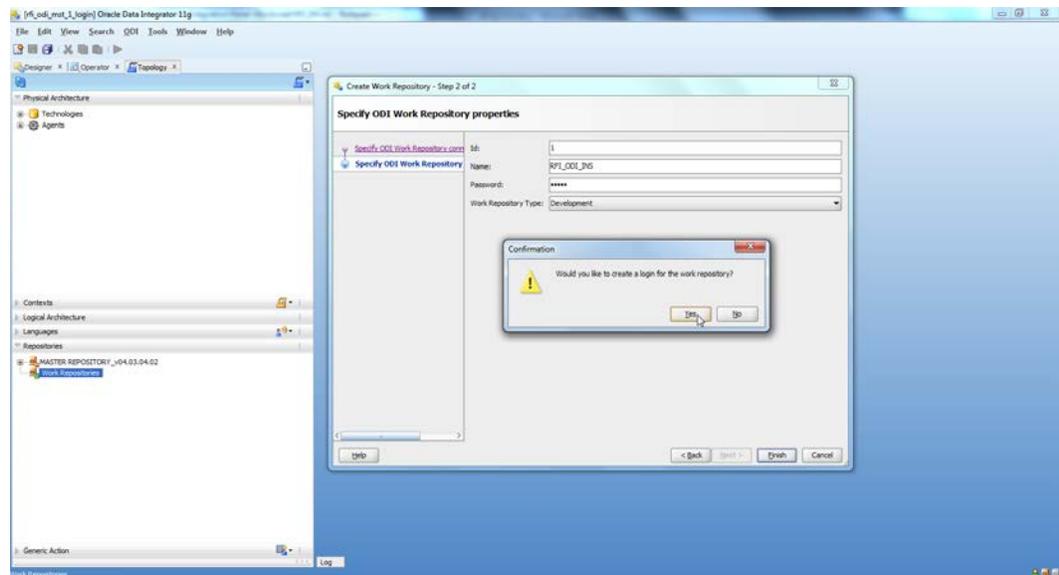
- Enter the work repository database credentials details.
- Test your credentials information using the **Test** button. If you are successful then click **Next**.



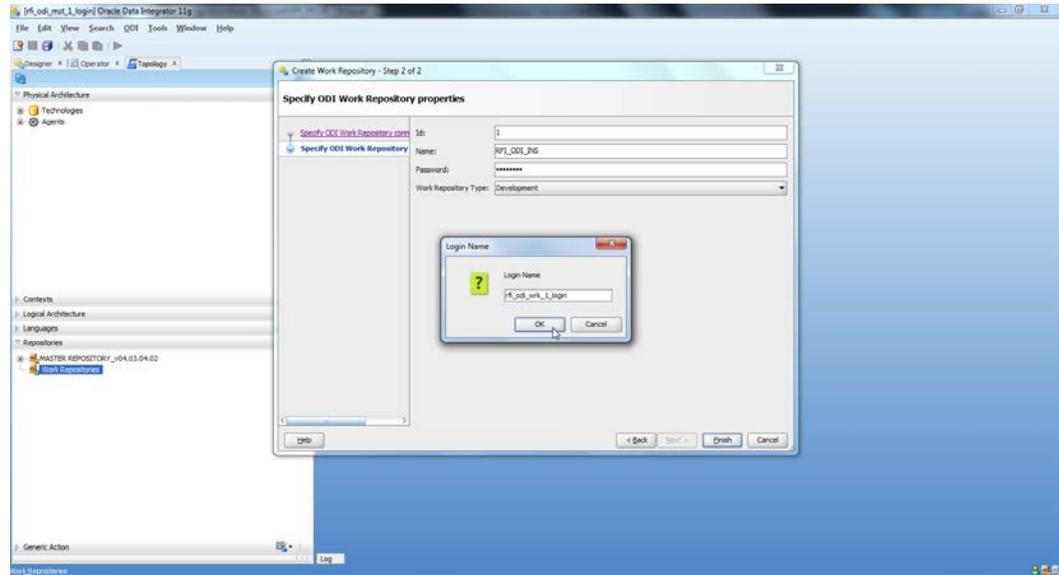
9. Update ODI Work Repository properties:
 - a. Enter any ID other than 804 or 805 (For EBS integration) / 501 or 502 (For PeopleSoft Integration) in the Id field.
 - b. Enter Name and Password (should be SUPERVISOR user and <supervisor password>) for work repository and click **Finish**.



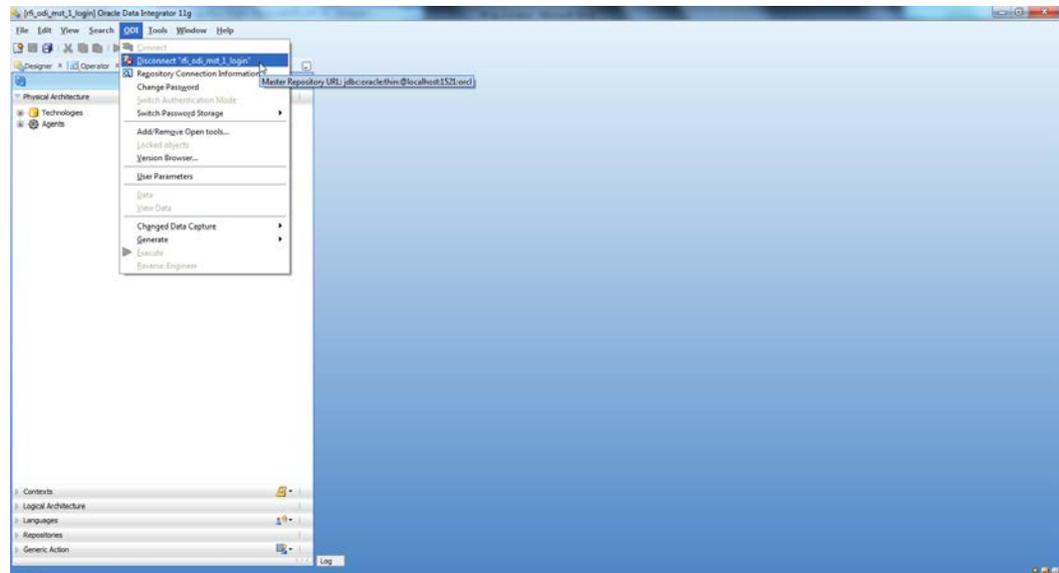
10. Click **Yes** to create an ODI login for the work repository.



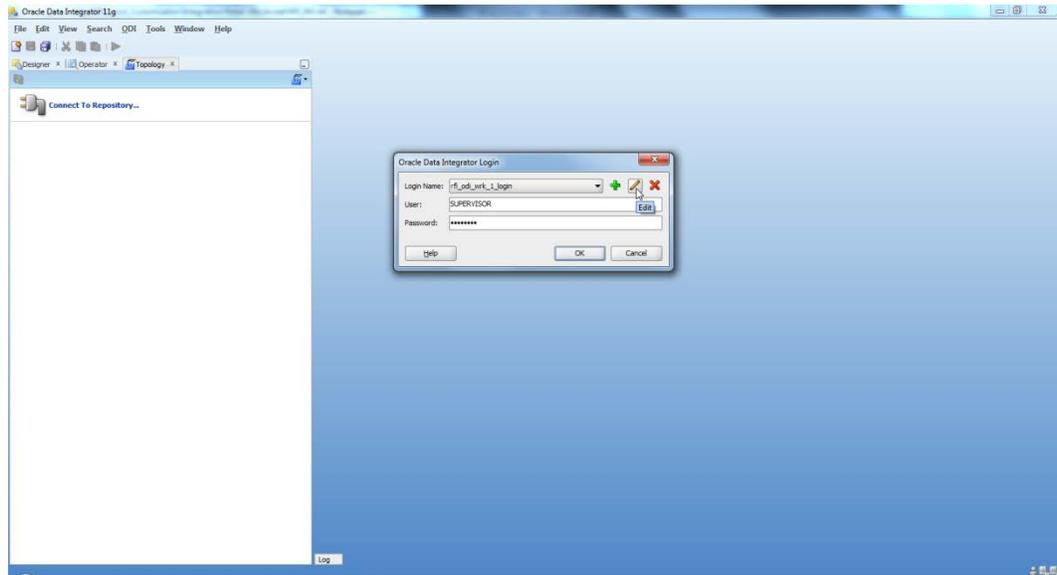
11. Enter the ODI work repository login name in the dialog.



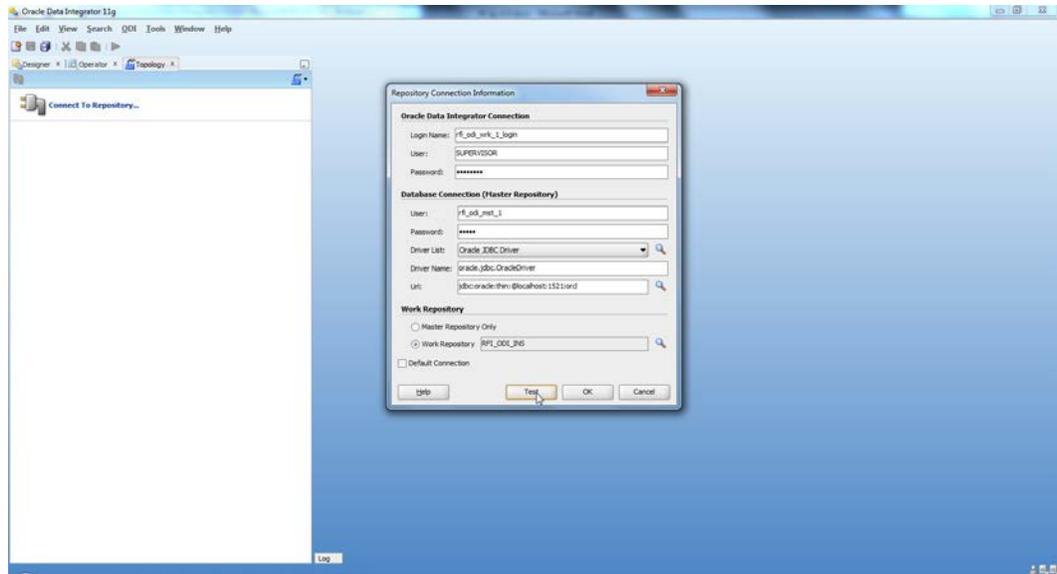
12. Select the ODI Menu → Disconnect option to connect to the Work Repository.



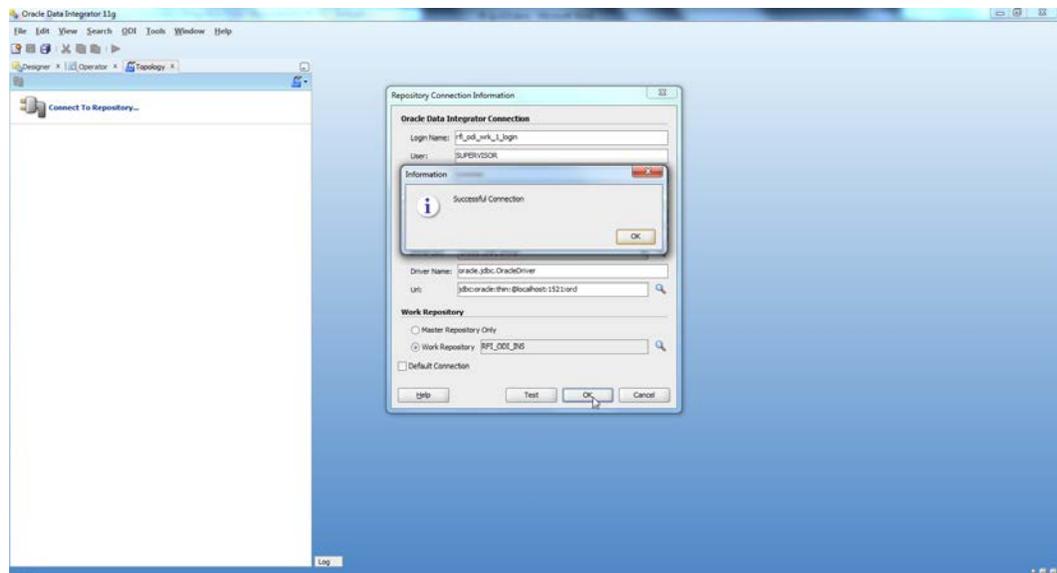
13. Select the ODI Menu→Connect option.
 - a. From the ODI Login popup, select Login Name from dropdown list (select the name you created in step7).
 - b. Enter user as “SUPERVISOR”.
 - c. Enter <supervisor password>.
 - d. Select the Edit option.



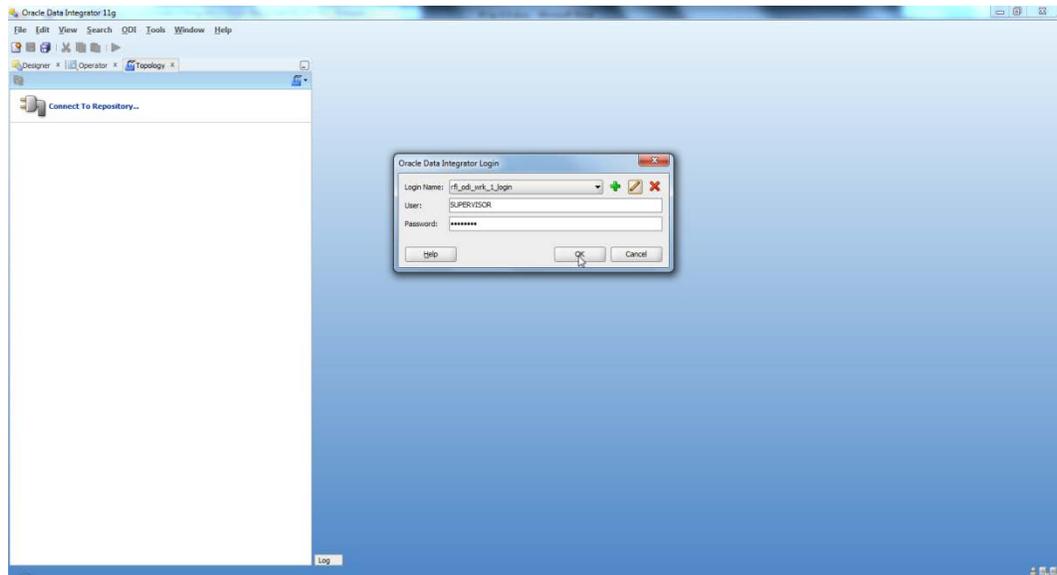
14. Validate the Repository Connection Information:
 - a. Oracle Data Integrator Connection
 - Login Name: <work repository login name>
 - User: <“SUPERVISOR”>
 - Password: < supervisor password>
 - b. Database Connection (Master Repository)
 - Validate the Master Repository database details.
 - c. Work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



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



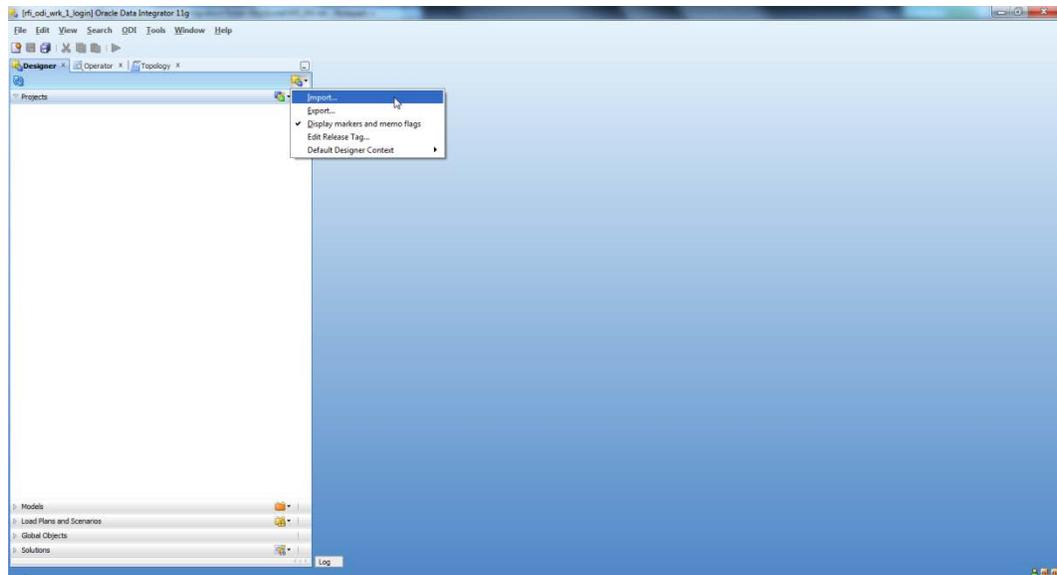
16. Select **OK** from Oracle Data Integrator Login dialog.



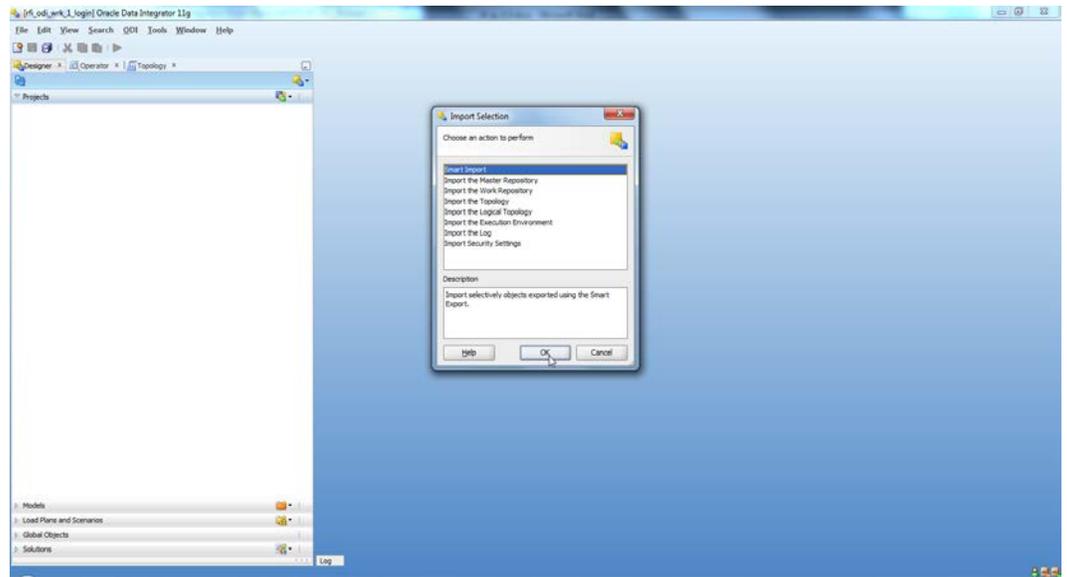
Import ODI Interfaces

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

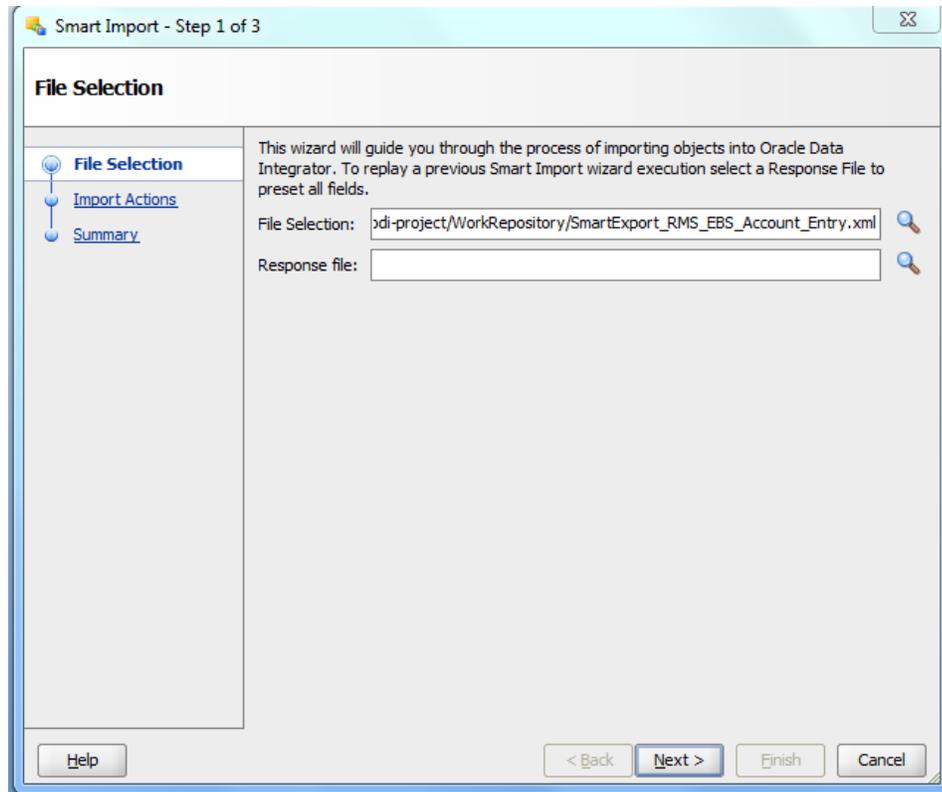
1. Log in to the Work Repository in Oracle Data Integrator (ODI) Studio to import all the interfaces:
2. Select the Import option from the Designer tab.



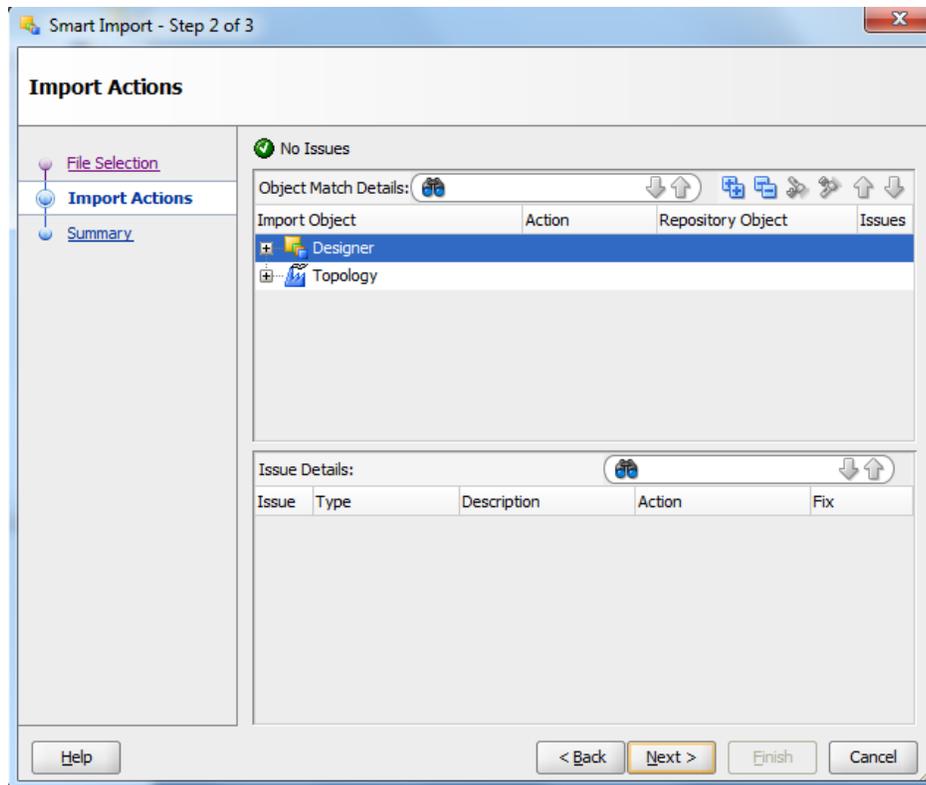
3. Select the Smart Import option on the Import Selection dialog and click **OK**.



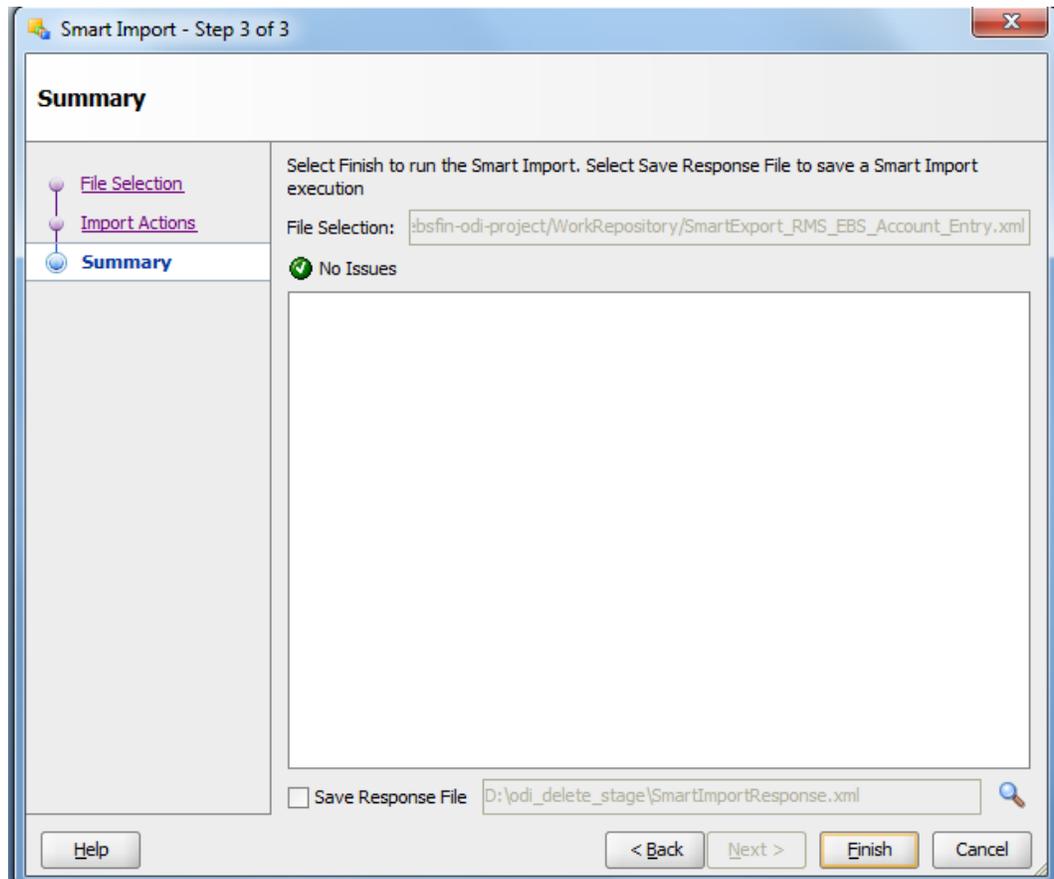
4. If integration is with EBS, then
 Select SmartExport_RMS_EBS_Account_Entry.xml file in the File Selection Field and click **Next**. This file can be found in \$INSTALL_DIR/retail-financial-integration-solution/etl-based-integration/retail-to-ebfin-etl-flows/retail-to-ebfin-odi-project/WorkRepository/.
 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/.



5. Click Next.



6. Click **Finish**.



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

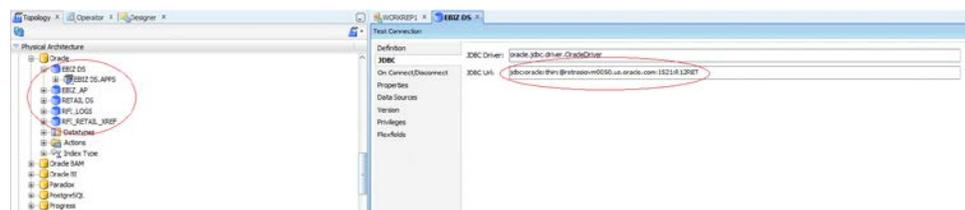
If PeopleSoft then

- SmartExport_ReIM_PSFT_Account_Entry.xml
- SmartExport_ReIM_PSFT_Invoice_Entry.xml

Update Connection Information

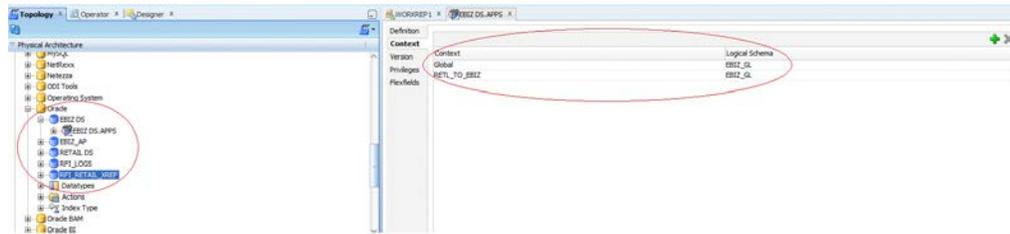
For EBS Integration:

In Topology, under Physical Architecture, Technologies → 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)
EBIZ_DS	User: <APPS Schema Name> Password: <APPS Schema Password>	Update EBS JDBCUrl	APPS Schema	RFI_ODI_TEMP Schema
EBIZ_AP	User: <AP Schema Name> Password: <AP Schema Password>	Update EBS JDBCUrl	AP Schema	RFI_ODI_TEMP Schema
RETAIL_DS	User: <RMS User Schema Name> Password: <RMS User Schema Password>	Update RMS JDBCUrl	RMS Schema Owner	RMS Schema Owner
RFI_LOGS	User: <ORFI Schema Name> Password: <ORFI Schema Password>	Update ORFI JDBCUrl	ORFI Schema	ORFI Schema
RFI_RETAIL_X REF	User: <ORFI Schema Name> Password: <ORFI Schema Password>	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.



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 → 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 Schema Name> Password: <APPS Schema Password>	Update PeopleSoft JDBCUrl	SYADM Schema	RFI_ODI_TEMP Schema
RETAIL DS	User: <RMS User Schema Name> Password: <RMS User Schema Password>	Update RMS JDBCUrl	RMS Schema Owner	RMS Schema Owner
RFI_LOGS	User: <ORFI Schema Name> Password: <ORFI Schema Password>	Update ORFI JDBCUrl	ORFI Schema	ORFI Schema
RFI_RETAIL_XREF	User: <ORFI Schema Name> Password: <ORFI Schema Password>	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.

- 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.

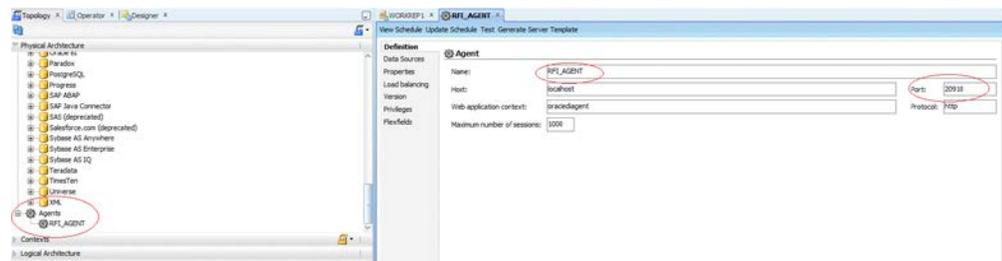
Physical Schema	Logical Schema
PEPOPLESOFT DS.SYSADM	PeopleSoft
RETAIL DS.RMS01	Retail
RFI_LOGS.RFI01	RFI_LOGS
RFI_RETAIL_XREF.RFI01	RFI_RETAIL_XREF

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 → 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>

2. sh encode.sh <password>
3. Modify odiparams file. Set the following lines as 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:

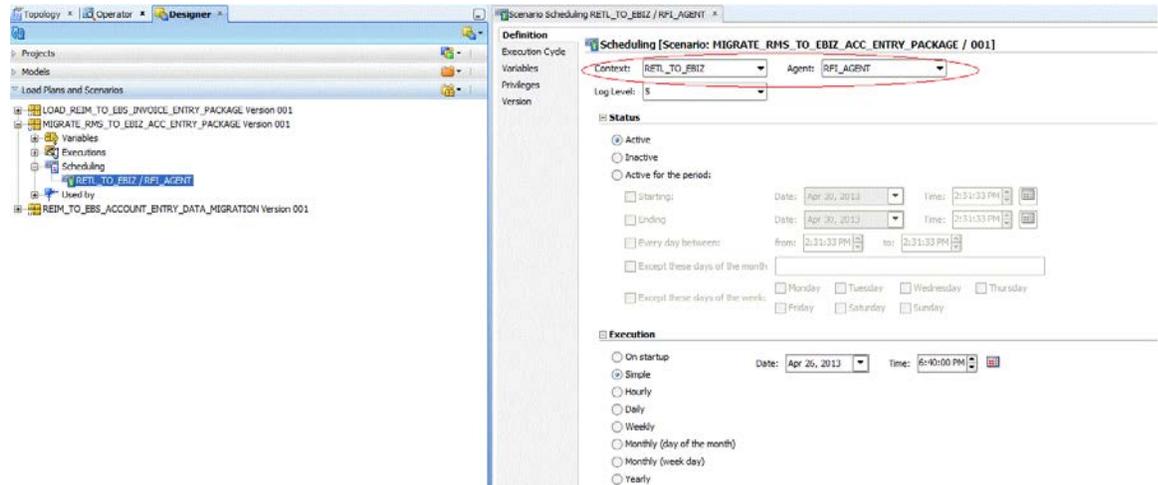
```
prompt$ agent "-NAME=<physical agent name>"
prompt$ agent "-NAME=RFI_AGENT"
sh agent.sh "-NAME=<physical agent name>"
```

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

1. 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.



4. Similarly, schedule the scenarios for the other ODI Interfaces
5. 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

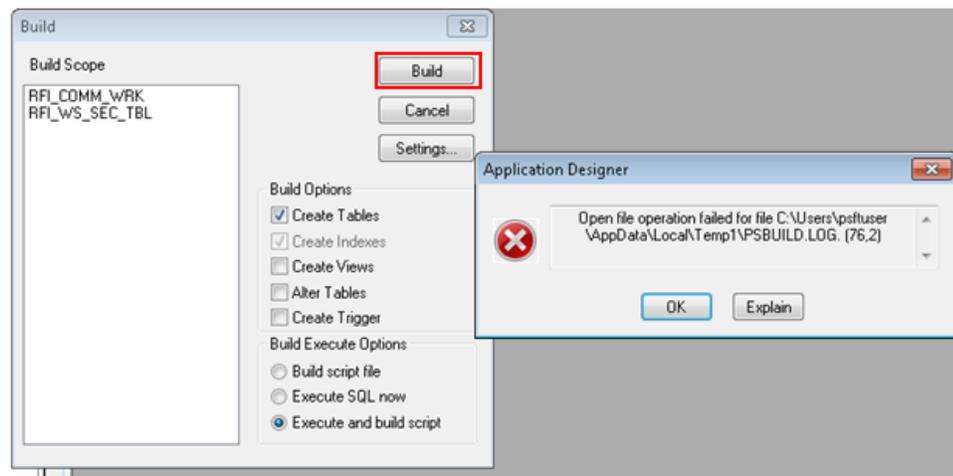
Note: These are broad guidelines. If problem persists then get a PeopleSoft administrator should validate the installation and service availability.

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

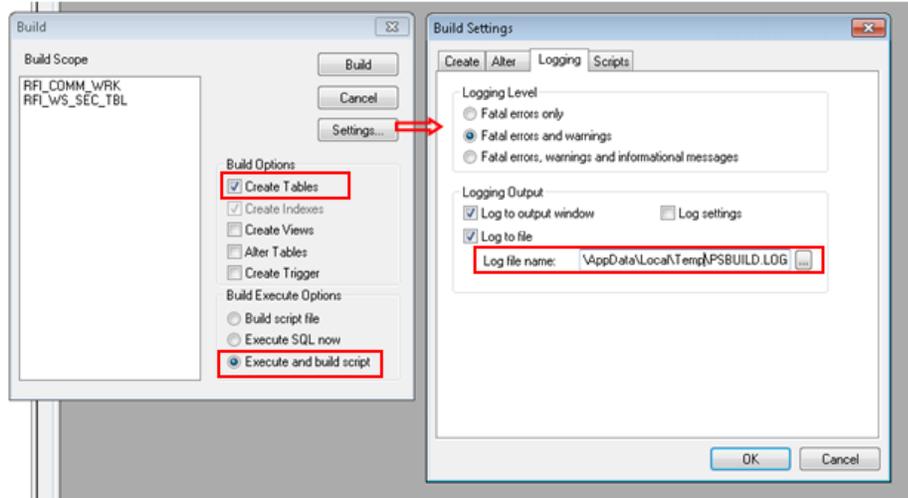
Issue:

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



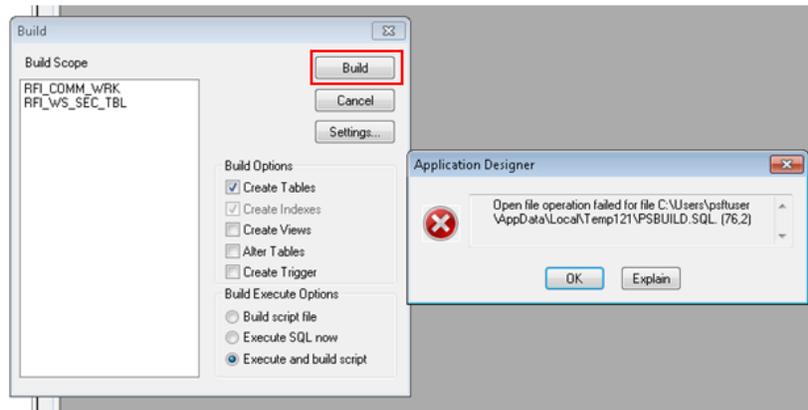
Resolution:

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.

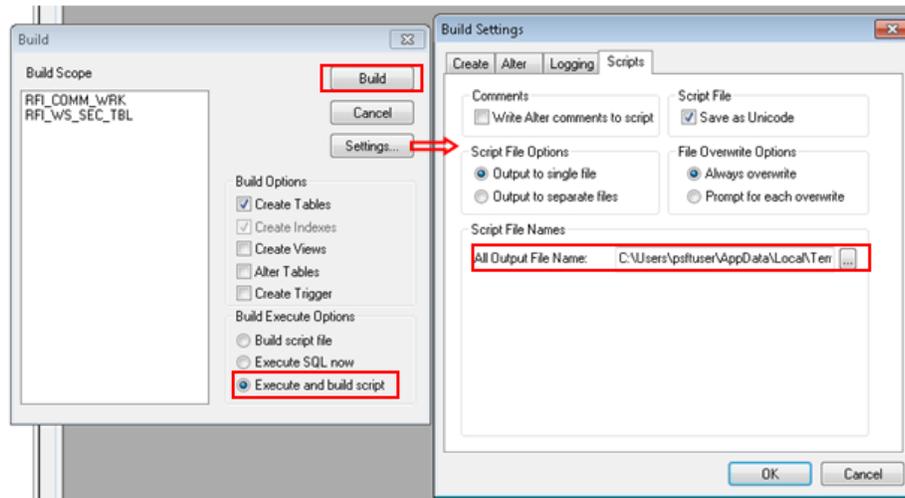


Issue:

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

**Resolution:**

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

**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 → PeopleTools → Integration Broker → Integration Setup → 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 → PeopleTools → Integration Broker → Integration Setup → Services

Search for service – SUPPLIERBUSINESSEVENTHANDLERSE and click on Service Link.

The screenshot shows the Oracle PeopleTools interface for searching services. The breadcrumb navigation is: Favorites > Main Menu > PeopleTools > Integration Broker > Integration Setup > Services. The page title is "Services - Search". Under "Search Criteria", the "Service" field contains "SUP" and there is a "REST Service" checkbox. A "Search" button is visible. Below the search criteria is a table with one result.

Service	Service Alias	Object Owner ID	Description
SUPPLIERBUSINESSEVENTHANDLERSE	SupplierBusinessEventHandlerService		SUPPLIERBUSINESSEVENTHANDLERSE

- On the Service Definition page, click the Service Operation link to open Service Operation

The screenshot shows the Oracle Service Definition page for the service operation HANDLEBUSINESSEVENT. The page is divided into several sections:

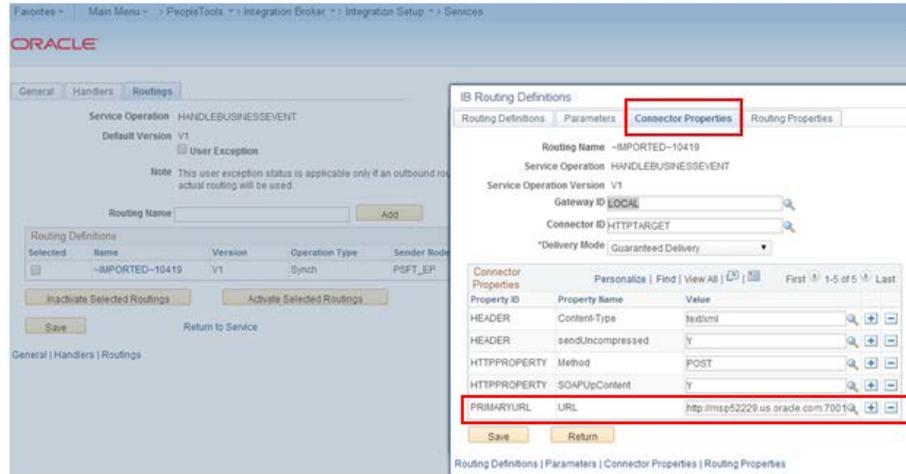
- General Tab:** Contains fields for Service Operation (HANDLEBUSINESSEVENT), Operation Type (Synchronous), *Operation Description (HANDLEBUSINESSEVENT), Operation Comments (HANDLEBUSINESSEVENT), Owner ID, and Operation Alias (handleBusinessEvent). There are also checkboxes for "User/Password Required", "Req Verification" (with a dropdown menu), "Service Operation Security" (highlighted with a red box), and "Used with Think Time Methods".
- Default Service Operation Version:** Contains fields for *Version (V1), Version Description (HANDLEBUSINESSEVENT), and Version Comments (** DO NOT REMOVE **). It also has checkboxes for "Default" and "Active", and a "Routing Status" section.

- Click the Routings tab.

The screenshot shows the Oracle Service Definition page for the service operation HANDLEBUSINESSEVENT, with the "Routings" tab selected. The page displays the following information:

- Service Operation:** HANDLEBUSINESSEVENT
- Default Version:** V1
- User Exception:** A checkbox labeled "User Exception" is present, with a note: "This user exception status is applicable only if an outbound routing cannot be determined. If a valid outbound routing can be determined then the user exception status on the actual routing will be used."
- Routing Name:** A text input field with an "Add" button.
- Routing Definitions Table:** A table with columns: Selected, Name, Version, Operation Type, Sender Node, Receiver Node, Direction, Status, and Results. One row is visible with the name "-IMPORTED-10419", Version V1, Operation Type Synch, Sender Node PSFT_EP, Receiver Node WSGL_NODE, Direction Outbound, and Status Active. The "Routing Definitions" header is highlighted with a red box.
- Buttons:** "Inactivate Selected Routings", "Activate Selected Routings", "Save", and "Return to Service".

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



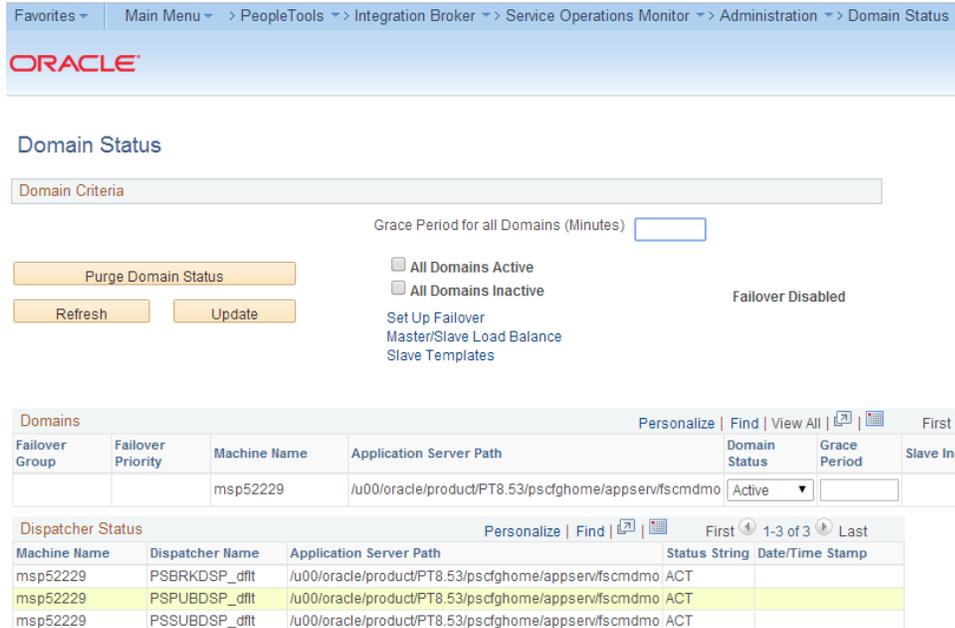
- Click on the “Connector properties” tab and validate the WSDL /Target URL reference given against “Primary URL”. This should be pointing to service that is being invoked in RFI. If this is different, then Change the URL to point to the one configured in RFI. Save the changes by pressing “Save” button.

Issue:

Messages are not published to Retail from PSFT.

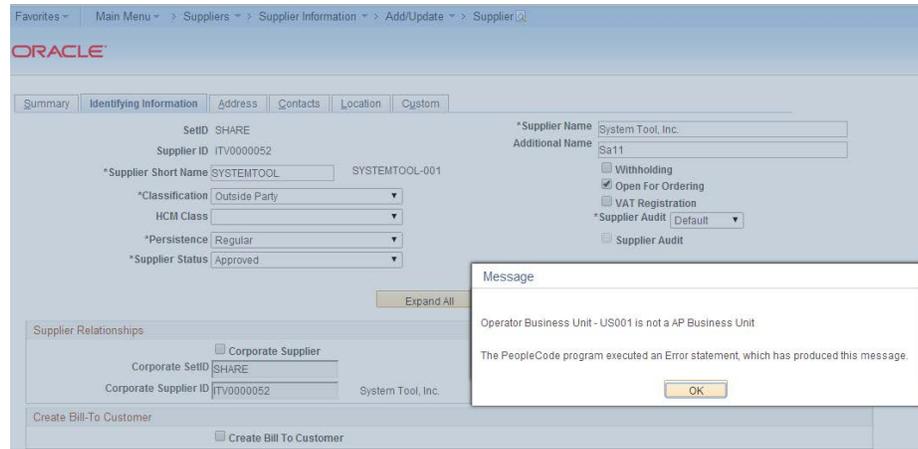
Resolution:

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



Issue:

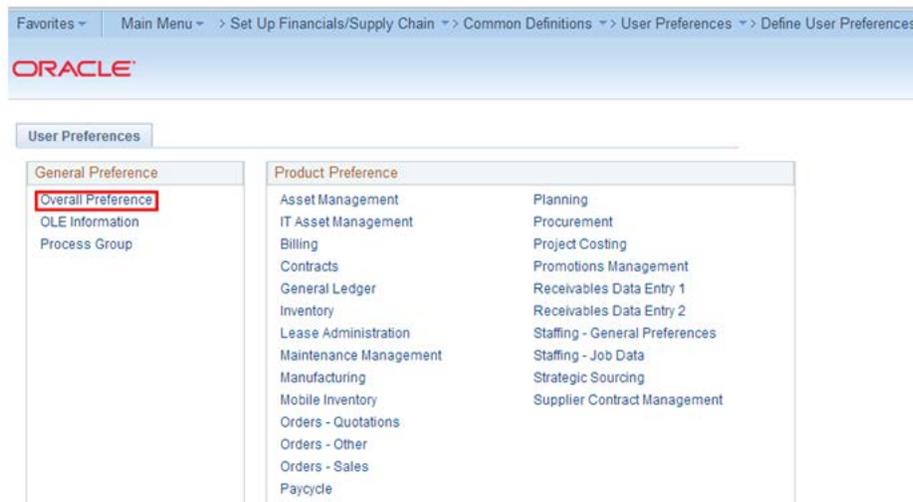
Invalid Business Unit error while creating Supplier in PeopleSoft. The system will throw a validation message “Operator Business Unit - XXX is not a AP Business Unit “, if the Business Unit assigned to the user is not a Accounts Payable Business Unit.

**Resolution:**

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

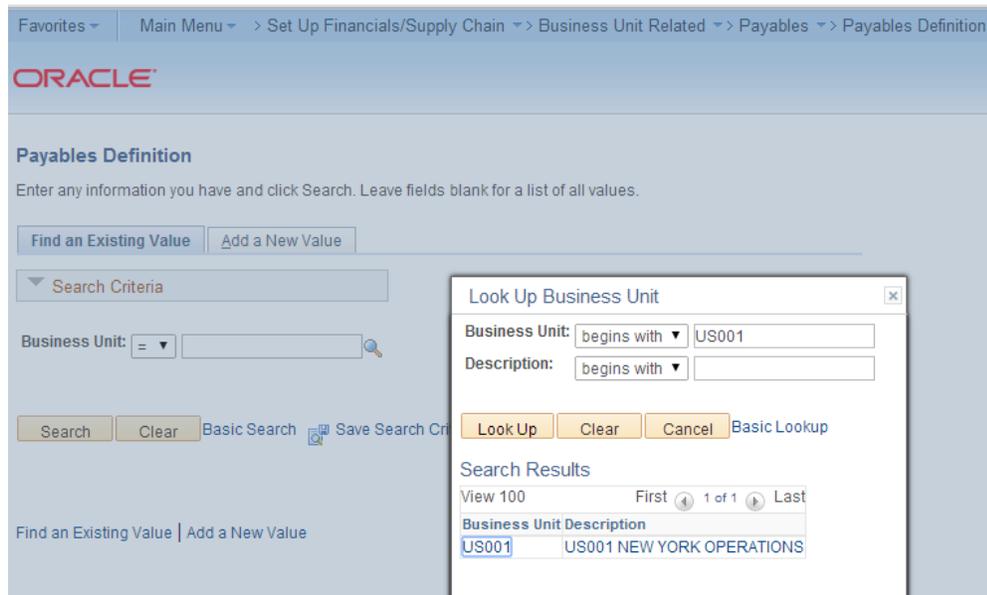
Navigation: Main Menu → SetUp Financials/Supply Chain → Common Definitions → User Preferences → Define User Preferences

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



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.

Navigation: Main Menu → Set up Finance / Supply Chain → Business Unit Related → Payables → Payables Definition



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