Oracle® Revenue Management and Billing Integration to Oracle E-Business Suite Revenue Accounting General Ledger and Accounts Payable

Installation Guide

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ORACLE®

Oracle Revenue Management and Billing Installation Guide for EBS Integration

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Overview

This guide describes the installation steps that must be completed before Oracle E-Business Suite Revenue Accounting General Ledger and Accounts Payable can be integrated with Oracle Revenue Management and Billing.

This installation is placed on top of Oracle Data Integrator tool. Oracle E-Business Suite Revenue Accounting General Ledger and Accounts Payable and Oracle Revenue Management and Billing interact with the middleware to initiate the housed services.

Please review the entire guide before you begin installation.

Additional Resources

For more information read the following documents:

Resource	Location
Oracle Revenue Management and Billing Implementation Guide for EBS RMB Integration Document	Same folder as this document with the distribution for this product.
Oracle E-Business Suite Revenue Accounting General Ledger and Accounts Payable Installation Guide for Release v12.0	http://edelivery.oracle.com/
Oracle Revenue Management and Billing Installation Guide for Release v2.2.4.0	http://edelivery.oracle.com/
Oracle Data Integrator 11g documentation	http://www.oracle.com/technetwork/middleware/data-integrator/overview/index.html

Abbreviations

RMB - Oracle Revenue Management and Billing application

EBS - Oracle E-Business Suite Revenue Accounting General Ledger and Accounts Payable application

Installation

The following sections describe the settings and requirements for a successful installation. Complete these installation steps prior to configuring the applications for integrated functionality.

Software Requirements

Before installing the integration package, verify that the following software is properly installed and configured:

Please refer to your product specific installation instructions for complete details.

- Oracle Revenue Management and Billing – Application version v2.2.4.0 installed on an Oracle database
- Oracle E-Business Suite Revenue Accounting General Ledger and Accounts Payable – Application version v12.0 installed on an Oracle database
- Oracle Data Integrator 11.1.1.5.0 (Standalone Installation and Developer Installation or Java EE Installation and Developer Installation)

Pre-Installation Tasks

Before you begin installing the integration package, complete the following tasks:

- Ensure that Oracle Data Integrator 11g (11.1.1.5.0) is installed and running.

  Refer to documentation at http://www.oracle.com/technetwork/middleware/data-integrator/documentation/index.html#11.1.1.5

  Oracle Data Integrator installed should have the following components:

  - Agent
  - Designer
  - Operator
  - Security Manager
  - Topology Manager
  - SDK
- Ensure that the database for ODI is created.
- Ensure you have the tnsnames.ora entry for the databases related to ORMB, EBS and ODI repositories.
- Ensure you have Perl version 5.12.3 installed with following modules available

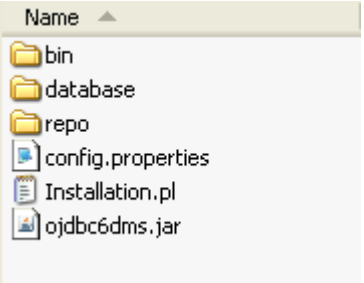
  Cwd, Switch, File; DBI; DBD

Installation Steps

Complete the following steps to install the integration package:

1. Download RMB_EBS_INSTALL_HOME_R12.zip file from e-delivery (http://edelivery.oracle.com/).
2. Extract the RMB_EBS_INSTALL_HOME_R12.zip file in the folder RMB_EBS_INSTALL_HOME. These are the subfolders created bin, database and repo.

   Ensure no spaces in the directory names for installation.



3. Review the database scripts related to static data required for integration IntegrationLookupData.sql. Refer to the implementation guide on details for each of these values.

4. Set the following environment variables for Unix and Windows OS:

Variable	Example
Linux and Windows OS	
INT_INSTALL_HOME	Set this to the directory where RMB_EBS_INSTALL_HOME_R12.zip is extracted. Examples: **Unix/ Linux:** INT_INSTALL_HOME =/slot/oracle/RMB_EBS_INSTALL_HOME/ **Windows:** INT_INSTALL_HOME =D:\Oracle\RMB_EBS_INSTALL_HOME\
ODI_ LIB	Set this to the directory of the SDK libraries F:\odi\oracledi.sdk\lib
ODI_INST_HOME	F:\odi\

Note: The syntax for INT_INSTALL_HOME changes depending on whether you are installing on Linux or Windows. The following sections refer to this as $INT_INSTALL_HOME in the Linux syntax. However, if you are installing on Windows, it should be referred to as: %INT_INSTALL_HOME%. Wherever $INT_INSTALL_HOME is mentioned in this document please replace with %INT_INSTALL_HOME% for Windows.

5. Modify the $INT_INSTALL_HOME\config.properties file and ensure that the values are relevant to the server where the integration product is to be installed. The following table lists the properties available in config.properties file along with their usage. The default values are specified wherever applicable.

Property	Description	Example
ODI Master Repository Database Information		
masterRepositoryJdbcUrl	Master Repository Database url	jdbc:oracle:thin:@<host>:<port>:<SID>
masterRepositoryJdbcDriver	Oracle Driver	oracle.jdbc.OracleDriver

Property	Description	Example
masterRepositoryJdbcUser	Master Repository database schema user	odi_ master
masterRepositoryJdbcPassword	Master Repository database schema password	odi_ master
masterRepositoryId	Master Repository ID	600
ODI Work Repository Database Information		
workRepositoryJdbcUrl	Work Repository Database url	jdbc:oracle:thin:@<host>:<port>:<SID>
workRepositoryJdbcDriver	Oracle Driver	oracle.jdbc.OracleDriver
workRepositoryJdbcUsername	Work Repository database schema user	odi_work
workRepositoryJdbcPassword	Work Repository database schema password	odi_work
workRepositoryName	Work Repository Name	ODIREPO
workRepositoryId	Work Repository ID	610
ODI Database sysdba credentials		
oracleSysDBUser	Provide DBA user for ODI repository database	sys
oracleSysDBPass	Provide DBA password for ODI repository database	manager
RMB Database credentials		
rmbUser	RMB Database User	cisadm
rmbPass	RMB Database Password	cisadm
rmbJdbcUrl	RMB database URL	jdbc:oracle:thin:@<host>:<port>:<SID>
EBS Database credentials		
ebsUser	EBS Database User	apps
ebsPass	EBS Database Password	apps
ebsJdbcUrl	EBS database URL	jdbc:oracle:thin:@<host>:<port>:<SID>
ODI Repository Details		
repoType	This is the work repository type to be created. In case of Development repository enter "DEVELOPMENT" or if type execution enter "EXECUTION" for production deployment	DEVELOPMENT or EXECUTION

Property	Description	Example
workRepoPath	Configure the work repository path based on the installation directory.	In Windows D:\\Oracle\\RMB_EBS_INSTALL_HOME\\repo\WorkRepository.zip In Unix /slot/oracle/RMB_EBS_INSTALL_HOME/repo/WorkRepository.zip
masterRepoPath	Configure the master repository path based on the installation directory.	In Windows D:\\Oracle\\RMB_EBS_INSTALL_HOME\\repo\\master.zip In Unix /slot/oracle/RMB_EBS_INSTALL_HOME/repo/master.zip
executionEnvPath	Configure the execution environment path based on the installation directory.	In Windows D:\\Oracle\\RMB_EBS_INSTALL_HOME\\repo\\topology.zip In Unix /slot/oracle/RMB_EBS_INSTALL_HOME/repo/topology.zip
scenariosPath	Configure the work repository path based on the installation directory.	In Windows D:\\Oracle\\RMB_EBS_INSTALL_HOME\\repo\\ In Unix /slot/oracle/RMB_EBS_INSTALL_HOME/repo/

Note the following:

- $ INT_INSTALL_HOME/ folder contains the perl file for running the installation.

Installing the Integration

Run the Installation Script

After you set the environment variables:

1. Open a command prompt and execute the command:

cd **RMB_EBS_INSTALL_HOME**

2. Execute: **perl Installation.pl** to invoke the deployment script.

   Provides various menu options as follows:-

```
1 - Create ODI Work and Master repository database Users
2 - Create ODI repositories and Import Artifacts
3 - Run Integration Artifacts on RMB
4 - Run Integration Artifacts on EBS
5 - To run all the above steps (1 to 4)
6 - Review your config.properties
7 - Exit
```

Note: Execute Steps 1 to 4 individually or Execute Step 5 which will run all steps from 1 to 4 in the sequence defined. Ensure all configuration settings are done in config.properties prior to running all the steps.

This completes the end to end RMB-EBS integration installation by performing the following tasks:

Step 1

Create database schema users for ODI master and Work Repositories as configured in config.properties

Step 2

Create metadata information for ODI master and Work Repositories for installed ODI. It also deploys the integration artifacts in the ODI repositories. This needs to be executed post *Step 1*.

Step 3

Creates database tables/data required for RMB EBS integration on RMB schema

Table Name	Description
INTEGRATION_LOOKUP_TABLE	A lookup table to store all the configuration parameters used by the ODI processes. This table is also used to configure the email addresses to be notified if errors occur. This table is seeded with data at the time of integration product installation.
INTEGRATION_ERROR_STORE	The table is used to hold the information regarding the errors encountered during integration transactions. A record is inserted for each error encountered by the ODI Flows. The mail notification process, accesses this table to get the error information needed to construct the notification email. This table is delivered with no

Table Name	Description
	data.

Step 4

Creates database procedures and functions required for RMB EBS integration on EBS schema.

Step 5

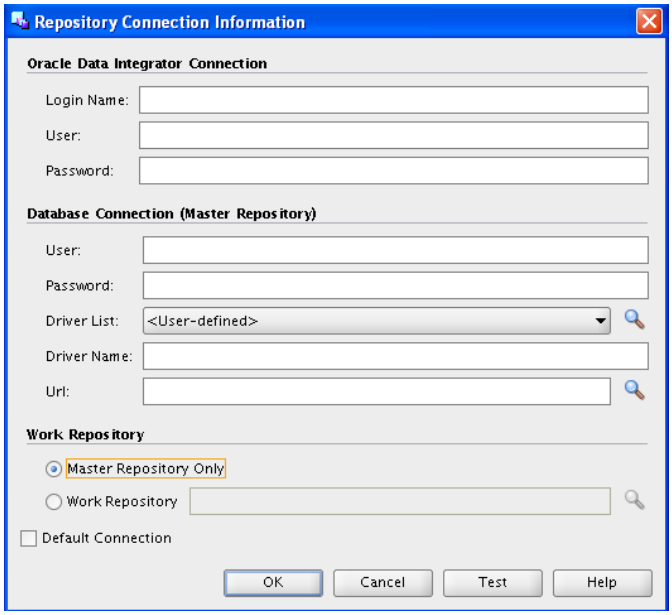
Execute steps 1 to 4 in the sequence defined.

Note: ODI related Steps 1 & 2 have to be executed in the same sequence if being individually run (not using step 5)

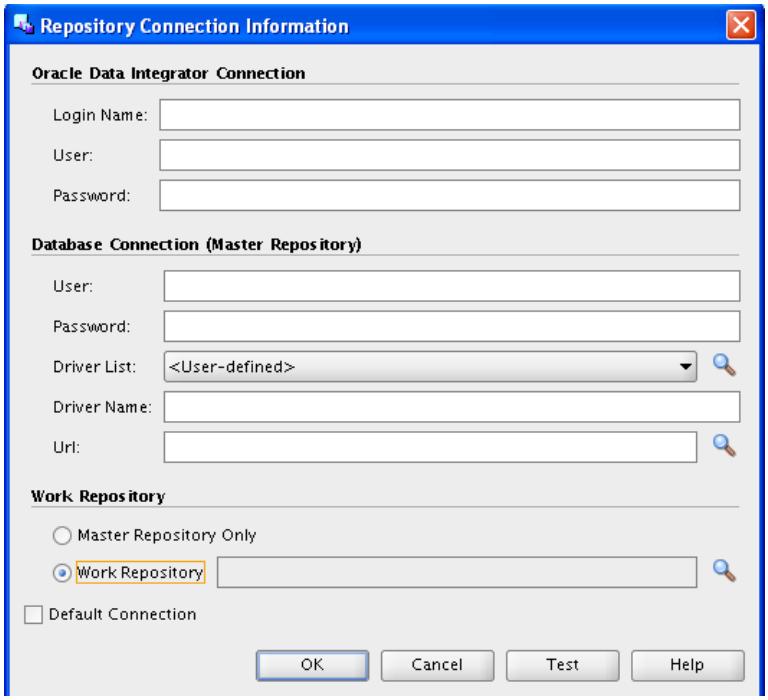
Post Installation Tasks

After running the installation scripts you must complete the following tasks to finalize the installation.

a) Create a login for ODI Studio for the master repository user SUPERVISOR. Refer to product specific documentation of details for creating a login for master repository.

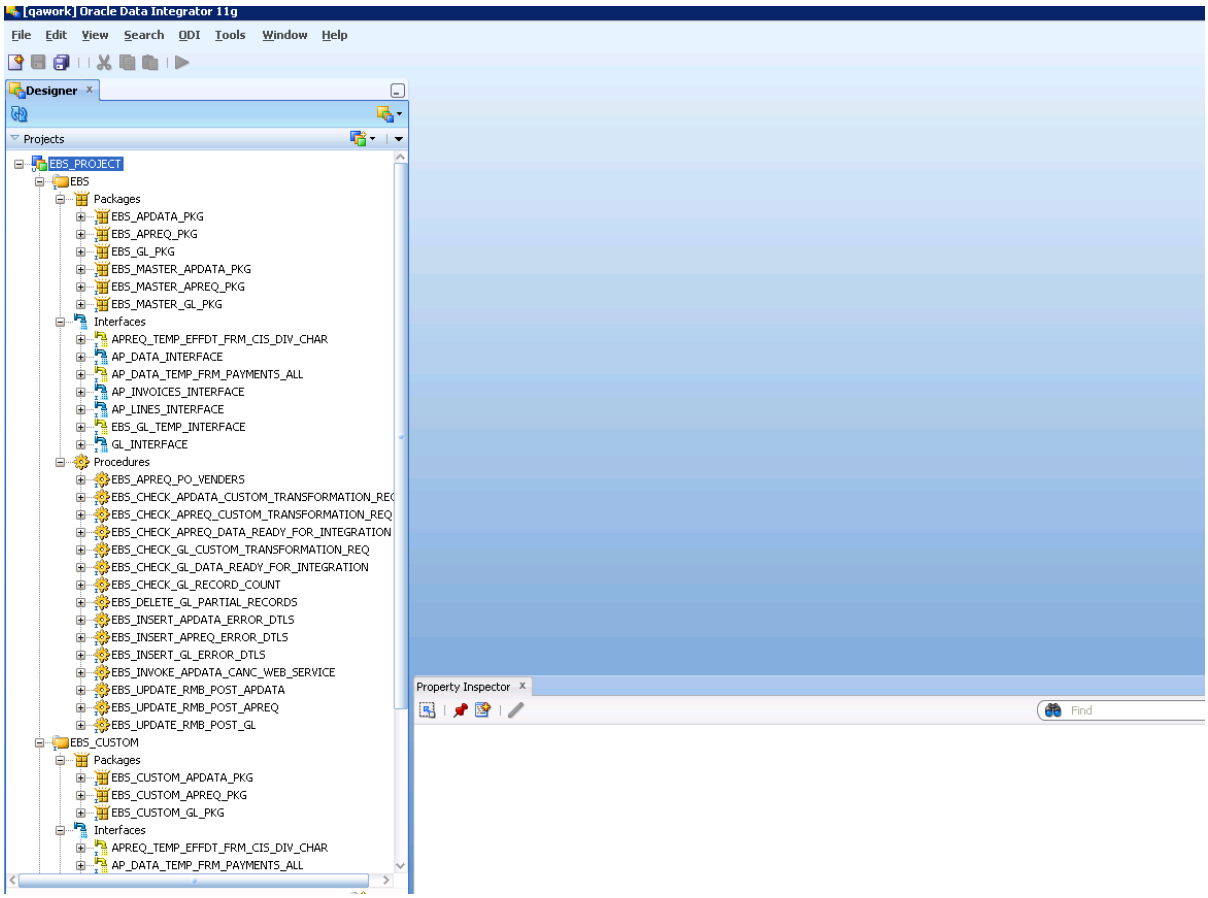


b) Create a login for ODI Studio for the work repository user SUPERVISOR. Select the Work Repository name as mentioned in config.properties through the lookup. Refer to product specific documentation of details for creating a login for work repository.

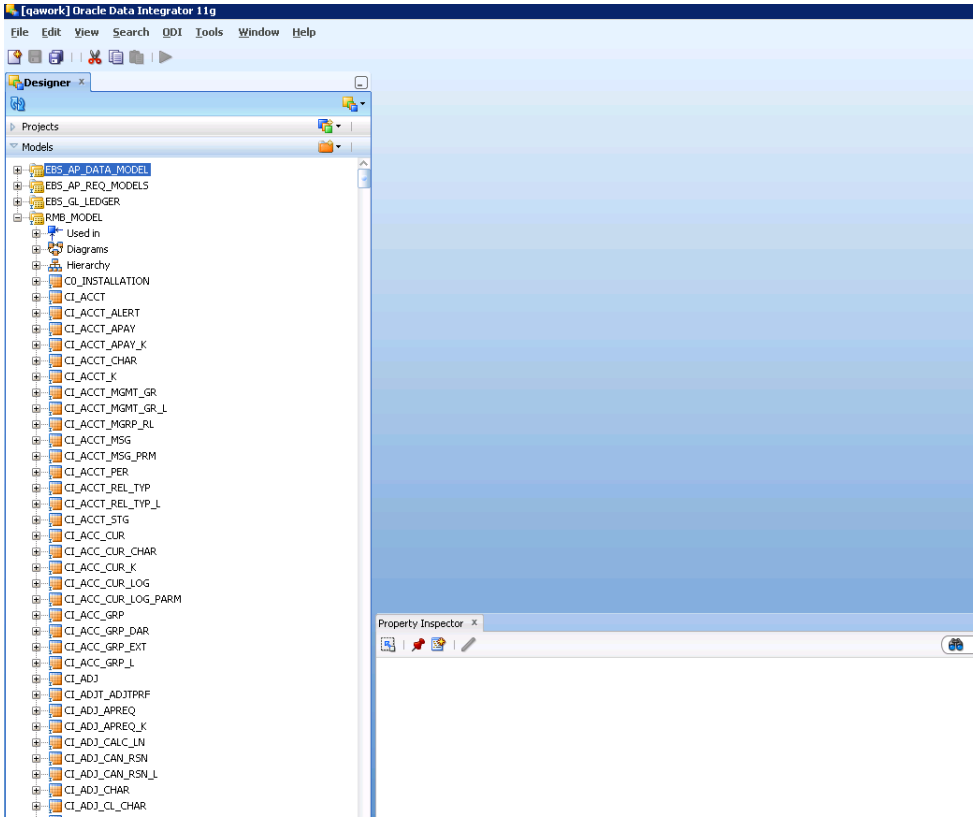


c) Log into Work Repository as user SUPERVISOR/SUPERVISOR. Use ODI Designer to check that the Model/Packages/Interface/Scenario objects are available.

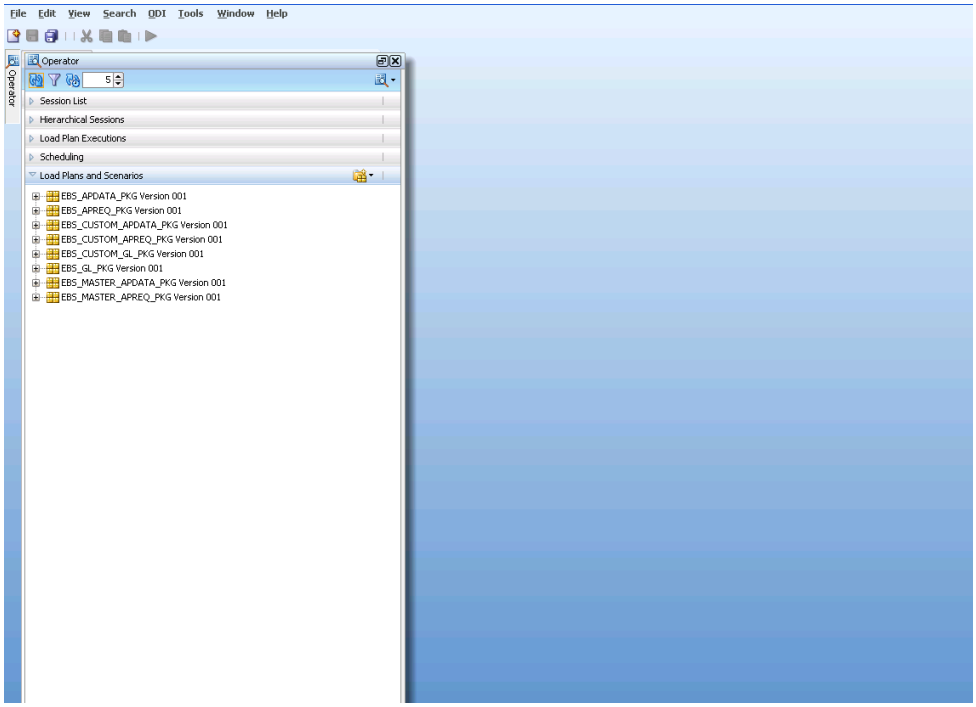
In case Work Repository type was selected as "DEVELOPMENT" you can view the EBS_PROJECT in your setup in the Designer.



You can view the Model for EBS/RMB used in the Models tab.

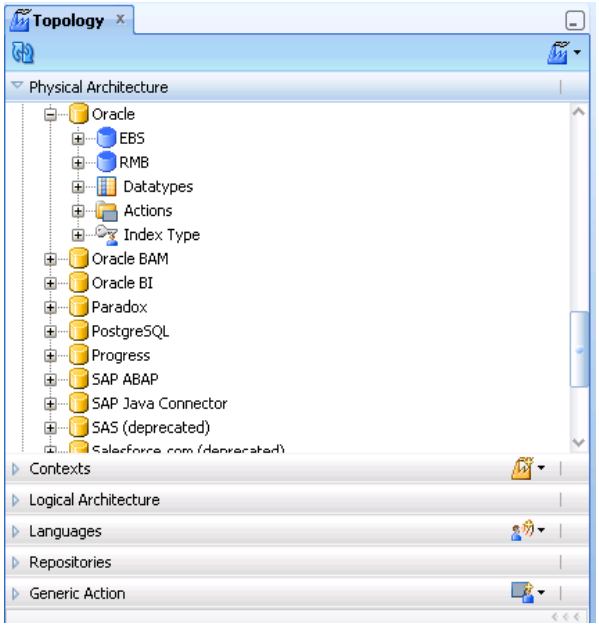


In case Work Repository type was selected as "EXECUTION" (for production deployments) you can view the Scenarios as below through the Operator

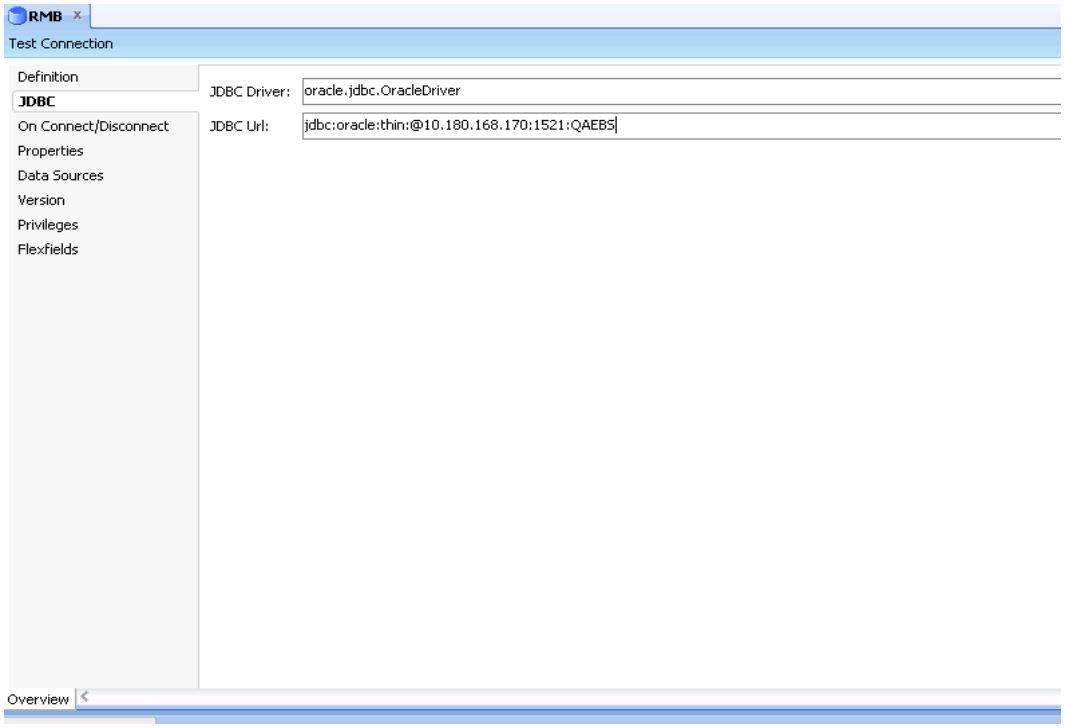


d) Provide the source tnsnames entry in the target database and vice versa.

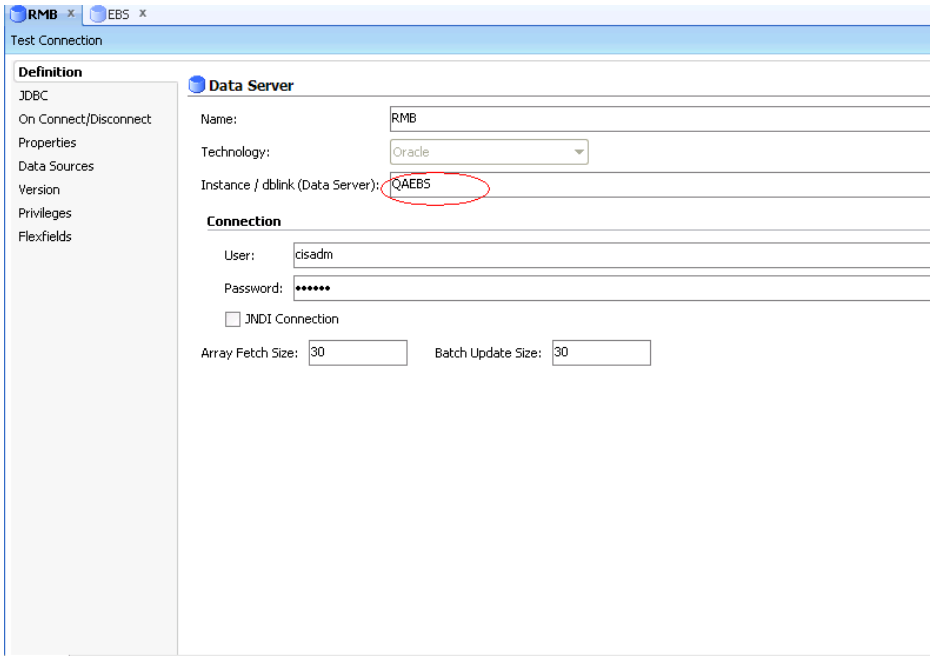
e) Use ODI Topology Manager to check the Oracle Data Server Connections for the source RMB and target EBS. Verify both the logical and physical architecture. Edit the dataserver details for target database and source database JDBC urls as per the setup environment.



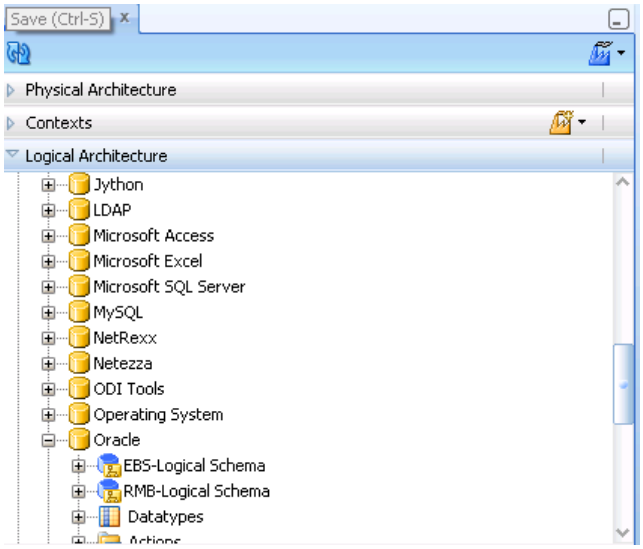
Edit the JDBC url for Source and Target



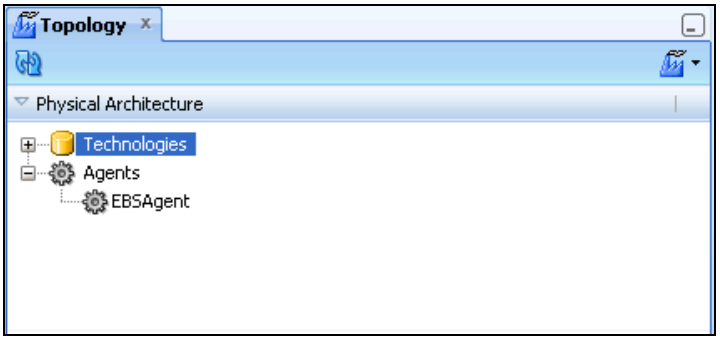
Similarly edit the Instance / dblink name in the Definition tab to the SID of the respective source and target databases.

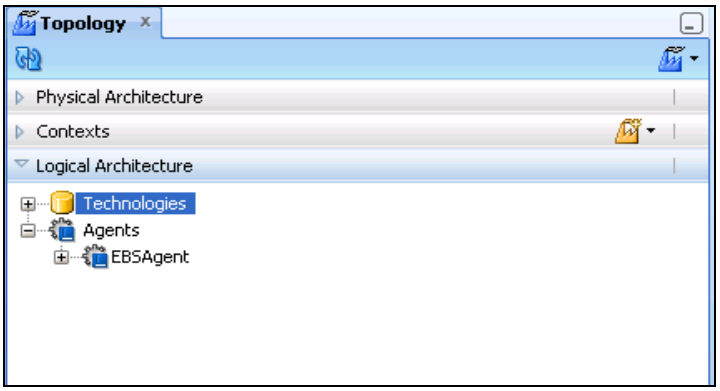


Logical Schemas for source and target require no change



f) Use ODI Topology Manager to check the Agent deployed. Verify the host and port and edit if required based on the setup in the Physical Architecture.





Edit the odiparams.bat file for specifying configuration values that are specific to the RMB EBS integration deployment.

On the ODI machine, open the odiparams.bat or odiparams.sh file in a text editor.
The odiparams.bat and odiparams.sh files are located in the $ODI_INST_HOME\oracledi\agent\bin\ directory.

Encode the passwords using the encode utility (encode.bat or encode.sh) in ODI present in $ODI_INST_HOME\oracledi\agent\bin\ and update the odiparams file.

Verify the properties below.

set ODI_MASTER_URL=jdbc:oracle:thin:@<host>:<port>:<sid>

set ODI_MASTER_USER=odi_master

set ODI_MASTER_ENCODED_PASS=bofHgPCGKnxD1vrX5prkkg,IbuBf

set ODI_SUPERVISOR=SUPERVISOR

set ODI_SUPERVISOR_ENCODED_PASS=dZypp8k.t9OFJB,hx8wQtf

set ODI_USER=%ODI_SUPERVISOR%

set ODI_ENCODED_PASS=%ODI_SUPERVISOR_ENCODED_PASS%

set ODI_SECU_WORK_REP=ODIREPO

Start the agent service to verify if agent deployed successfully.
Refer to ODI product specific documentation for details on running agents as a service and verifications.

Configure the Applications

Configure Oracle Revenue Management and Billing Integration and Oracle E-Business Suite Revenue Accounting General Ledger and Accounts Payable installation according to the guidelines in the Implementation Guide for this integration package.

Managing the ODI Environment

How to Change the Default Database Passwords

Altering the database passwords post setup, change the Physical Architecture in ODI for technology Oracle for the data server for source and target databases. For master repository, ensure this information is updated in the login details for both master and work. Similarly for work repository update the connection details in master under Repositories tab.

How to Change the ODI Topology Source and Target Connection Details

Edit the Physical Architecture for technology Oracle using Topology Manager for the source and target databases. Also edit the Instance/ dblink name to the SID of the database.

How to Change the Encoded Passwords in odiparams.bat or odiparams.sh

Run the encode utility in odi installation for the passwords modified and update in the odiparams file.

How to Change the Password for the ODI SUPERVISOR User

Change password for the SUPERVISOR user created during installation using the Security Manager module in ODI. Password set during installation is SUPERVISOR.