Oracle Business Intelligence Applications Installation and Configuration Guide

Version 7.9.6.3 Extension Pack

Contents

Preface....4
Audience....4
Documentation Accessibility....4
Accessibility of Code Examples in Documentation....5
Accessibility of Links to External Web Sites in Documentation....5
TTY Access to Oracle Support Services....5
Related Documents....5
Conventions....5
Overview....6
Pre-Requisites....6
Installation....7
Preparing the Staging Area....7
Backing up the current installation....7
Installing Informatica Workflows....8
Configuring Informatica Workflows....9
Configuring the Helper File....9
Assigning the Integration Service....10
Installing the DAC Container....11
Configuring the DAC Container....11
Creating tables in the Data Warehouse....11
Creating References....13
Disabling Tasks and Subject Areas....15
Building the Execution Plan....16
Verifying the Source System Parameters....17

Configuring the RPD and Webcatalog Objects.....19

RPD Merge.....19

9)Click on Finish to Complete the Process.....24

Catalog Merge.....24

Preface

Oracle Business Intelligence Applications are comprehensive prebuilt solutions that deliver pervasive intelligence across an organization, empowering users at all level, from front line operational users to senior management, with the key information they need to maximize effectiveness. Intuitive and role-based, these solutions transform and integrate data from a range of enterprise sources, including Siebel, Oracle, PeopleSoft, SAP, and corporate data warehouses, into actionable insight that enables more effective actions, decisions, and processes. Oracle Business Intelligence Applications are built on Oracle Business Intelligence Suite Enterprise Edition, a comprehensive next-generation BI and analytics platform.

This guide explains how to install, set up, configure, and customize Oracle Business Intelligence Applications Version 7.9.6.3 Extension Pack.

Oracle recommends reading Oracle Business Intelligence Applications Release Notes before installing or using Oracle Business Intelligence Applications. The Oracle Business Intelligence Applications Release Notes are available:

- On the Oracle Business Intelligence Applications CD-ROM.
- On the Oracle Technology Network at http://www.oracle.com/technology/documentation/bi_apps.html (to register for a free account on the Oracle Technology Network, go to http://www.oracle.com/technology/about/index.html).

Audience

This document is intended for BI managers and implementers of Oracle Business Intelligence Applications.

Documentation Accessibility

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

Accessibility of Code Examples in Documentation

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

bracket or brace.

Accessibility of Links to External Web Sites in Documentation

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

TTY Access to Oracle Support Services

Oracle provides dedicated Text Telephone (TTY) access to Oracle Support Services within the United States of America 24 hours a day, 7 days a week. For TTY support, call 800.446.2398. Outside the United States, call +1.407.458.2479.

Related Documents

For more information, see the following documents in the Oracle Business Intelligence Applications Release 7.9.6.3 Extension Pack documentation set (available at http://www.oracle.com/technology/documentation/bi_apps.html):

- *Oracle Business Intelligence Applications Release Notes for Oracle 7.9.6.3 Extension Pack*
- *Oracle Manufacturing Analytics Users Guide*
- *Oracle Enterprise Asset management Analytics Users Guide*

Conventions

The following text conventions are used in this document:

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

Overview

This document describes the steps to Install and configure the Oracle BI Applications 7.9.6.3 Extension pack alongside a new or existing implementation of Oracle BI Applications 7.9.6.1, 7.9.6.2 or 7.9.6.3. The instructions contained in this document describes how to create the data warehouse schema, install the Informatica mappings, install and configure the DAC containers and merge instructions for the Oracle Business Intelligence Enterprise Edition (OBIEE) RPD. This document only covers the installation and configuration specifics for the Oracle BI

Applications 7.9.6.3 Extension Packs, for all other related installation and configurations questions refer to the Oracle BI Applications Configuration Guide for Informatica PowerCenter Users for the associated BI Applications version which can be obtained on OTN (link) or via the original software Media Pack provided by Oracle.
The Manufacturing Module in the Oracle 7.9.6.3 Extension pack is pre-integrated with Oracle E-Business Suite Manufacturing and the EAM module in Oracle 7.9.6.3 Extension pack is pre-integrated with Oracle E-Business Suite Enterprise Asset Management (EAM) module, as well as IBM Maximo 6.5.

Pre-Requisites

In order to install the Oracle 7.9.6.3 Extension pack at least one module of Oracle BI Applications versions 7.9.6.1 to 7.9.6.3 has to be installed.

Downloading the Extension Pack

The Oracle Business Intelligence Applications 7.9.6.3 Extension Pack can be downloaded from the Oracle eDelivery site. On downloading, you will get a zip file by name OracleBIA_7963_Extn_Packs.zip. Extracting the zip will give three zip files, each corresponding to extensions for Oracle BI Applications Versions 7961, 7962 and 7963.
For installation, please use the zip file that corresponds to the version of Oracle BI Applications your organization has deployed. Oracle recommends that all new deployments use version 7.9.6.3.

OBIA Version	Extension Pack Zip
7961	Oracle7961_Extn_Pack.zip
7962	Oracle7962_Extn_Pack.zip
7963	Oracle7963_Extn_Pack.zip

Installation

Preparing the Staging Area

Extract the zip that corresponds to your Oracle BI Applications version using a unzip utility. You will get a folder called 'Oracle 796*x*_Extn_Pack' with the following folder structure.
Oracle_796*x*_Extn_Pack

- → Informatica
  - → SDE_ORAR12_Adaptor_Extn
  - → SDE_ORA11510_Adaptor_Extn
  - → SDE_MAXIMO65_Adaptor_Extn
  - → SILOS_Extn
  - → PLP_Extn
- → DAC
  - → OracleR12Extn .zip
  - → Oracle11510Extn.zip
  - → Maximo 65 Extn.zip
- → RPD
  - → OracleBIAnalyticsApps_Extn.rpd (for 7961 and 7962) (or)
  - → EnterpriseBusinessAnalytics_Extn.rpd (for 7963)
- → Webcatalog
  - → EnterpriseBusinessAnalytics_Extn.webcat

Unless otherwise noted in this document, the R12 Informatica and DAC folders contain objects that are compatible with Oracle EBS R12, R12.1.1, R12.1.2 and R12.1.3

Backing up the current installation

This section provides backup steps you need to perform before you begin the installation process for the Extension pack.

- Rename and copy into a different location your current repositories, Presentation Catalog (formerly known as the Web Catalog) and DAC installation folder from your existing environment. The file names and locations listed below represent the standard names and locations of files that shipped with Oracle BI Applications.
- When you backup the DAC Repository, you export the DAC metadata, in XML format (using the DAC's Export tool), into a different database, which can be used later as a reference. For instructions, see the Oracle Business Intelligence Data Warehouse Administration Console User's Guide

Type	Name	Location
DAC metadata Repository	*.drf	DAC_HOME\DAC\export
Oracle BI repository (formerly called Analytics repository)	OracleBIAnalyticsApps.rpd	OracleBI\Repository (10g i.e 7961 /7962) ORACLE_INSTANCE\bifoundation\OracleBIServerComponent\coreapplication_obis1\repository (11g i.e 7963)
Informatica Repository	Oracle_BI_DW_Base.rep	INFA_HOME\server\infa_shared\Backup
Presentation Catalog (formerly called Web Catalog)	<file_name>.webcat	OracleBIData\web\catalog (10g i.e 7961 /7962) ORACLE_INSTANCE\bifoundation\OracleBIPresentationServicesComponent\coreapplication_obips1\catalog (11g i.e 7963)
DAC installation Folder	DAC	DAC_HOME\DAC

Installing Informatica Workflows

- Open the repository in which Oracle BI Applications 796*x* has been installed. The repository can be opened through the Informatica Repository Manager tool (pmrepmgr.exe)
- Create new Informatica folders in the repository with names as below
  - → SDE_ORAR12_Adaptor_Extn
  - → SDE_ORA11510_Adaptor_Extn
  - → SDE_MAXIMO65_Adaptor_Extn
  - → SILOS_Extn
  - → PLP_Extn
- Verify the code page of the Informatica Repository. The extension XMLs are shipped with code page of 'UTF-8'. If the code page of your repository is different from the above, please change the code page of the extension XML's to the required code page. You can do it by editing the REPOSITORY tags of the extension XMLs.

E.g. Open the extension XMLs and in the Repository tag mentioned below the CODEPAGE Attribute need to be modified to the required code page.

<REPOSITORY NAME="BIApps_QA" VERSION="181" CODEPAGE="UTF-8" DATABASETYPE="Oracle">

- Select 'Repository → Import Objects' option. Import the xmls from the staging into the respective folders created with the same names in the repository. Please check in the XMLs during the import process.

  For E.g. XMLs in Staging Area->Oracle_796*x*_Extn_Pack->Informatica->SILOS_Extn should be imported to the SILOS_Extn folder created in Informatica.
- In the Import Dialog Box that follows, you will be presented with a list of folders for importing. Please choose only the folders with the _Extn extension
- While importing, you will encounter conflicts for Default Session Configurations and Reusable Transformations like Mapplet, Lookups etc which are referred from Oracle BI Applications folders. Please check the 'Reuse' box for resolving these conflicts

Configuring Informatica Workflows

Configuring the Helper File

Extract the QA_HELPER file from Staging Area-> Oracle_796x_Extn_Pack->Informatica->Config_Files folder and add values for organization_id, collection_element and target_column fields. After adding values save it in the following location in the Informatica server.

***INFA_HOME*/server/infa_shared/SrcFiles**

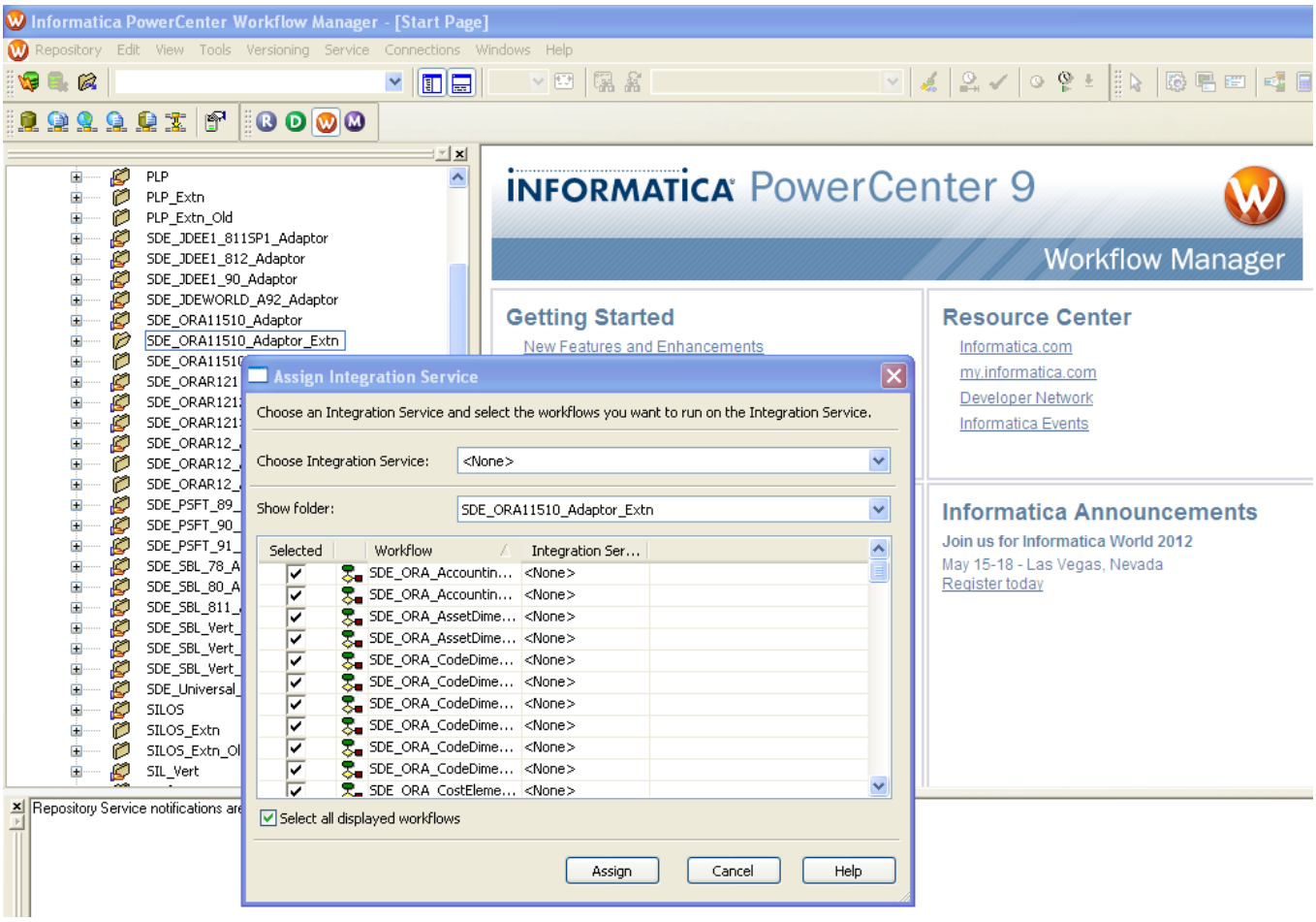
Assigning the Integration Service

Open Workflow manager to assign an Integration service to the workflows imported into the Extension folders. You can reuse the integration services created for Oracle BI Applications.

Close all the folders in the repository. Select Assign Integration Services from the Service Menu. In the resulting window, map the folders imported to the appropriate integration service and click 'Assign'. The following folders need to be mapped to the appropriate integration services.

→ SDE_ORAR12_Adaptor_Extn
→ SDE_ORA11510_Adaptor_Extn
→ SDE_MAXIMO65_Adaptor_Extn
→ SILOS_Extn

→ PLP_Extn


Informatica PowerCenter Workflow Manager - [Start Page]
Repository Edit View Tools Versioning Service Connections Windows Help
PLP
PLP_Extn
PLP_Extn_Old
SDE_JDEE1_811SP1_Adaptor
SDE_JDEE1_812_Adaptor
SDE_JDEE1_90_Adaptor
SDE_JDEWORLD_A92_Adaptor
SDE_ORA11510_Adaptor
SDE_ORA11510_Adaptor_Extn
INFORMATICA PowerCenter 9
Workflow Manager
Getting Started
New Features and Enhancements
Resource Center
Informatica.com
my.informatica.com
Developer Network
Informatica Events
Informatica Announcements
Join us for Informatica World 2012
May 15-18 - Las Vegas, Nevada
Register today
Assign Integration Service
Choose an Integration Service and select the workflows you want to run on the Integration Service.
Choose Integration Service:
<None>
Show folder:
SDE_ORA11510_Adaptor_Extn
Selected
Workflow
Integration Ser...
SDE_ORA_Accountin...
SDE_ORA_AssetDime...
SDE_ORA_CodeDime...
SDE_ORA_CostEleme...
Select all displayed workflows
Assign
Cancel
Help
Repository Service notifications

Installing the DAC Container

As part of implementing Oracle BI Apps 796*x*, you would have created a custom container to hold customizations done on Oracle BI Applications. If this is the first time Oracle BI Applications is being implemented, please create a new container as a copy of the source system container that you wish to implement. This is called the 'Production' container. The container that is shipped as part of Oracle796*x* Extension pack is termed as the 'Extension' container.

The DAC sub folder under the Oracle796*x*_Extn folder in the Staging Area contains Extension Containers. These containers contain extracts from

- Manufacturing and EAM for R12 and 11510 versions of Oracle E-Business suite
- EAM for IBM Maximo 65.

Pick the appropriate extension container depending on the version of Oracle E-Business Suite and/or the IBM Maximo that you are running.

Go To *Tools -> DAC Repository Management -> Import*

Import the Extension Container

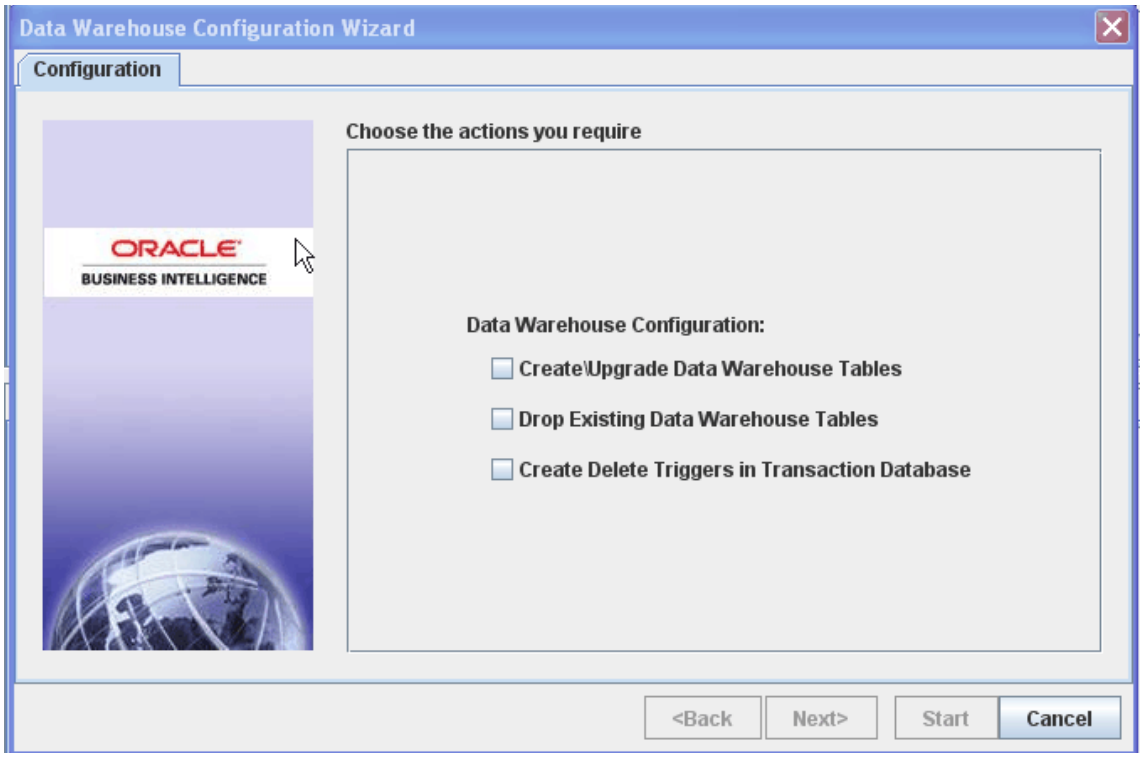
Select 'Logical' check box only while importing the Extension Container

Now, the repository should have the _Extn container in addition to the other containers.

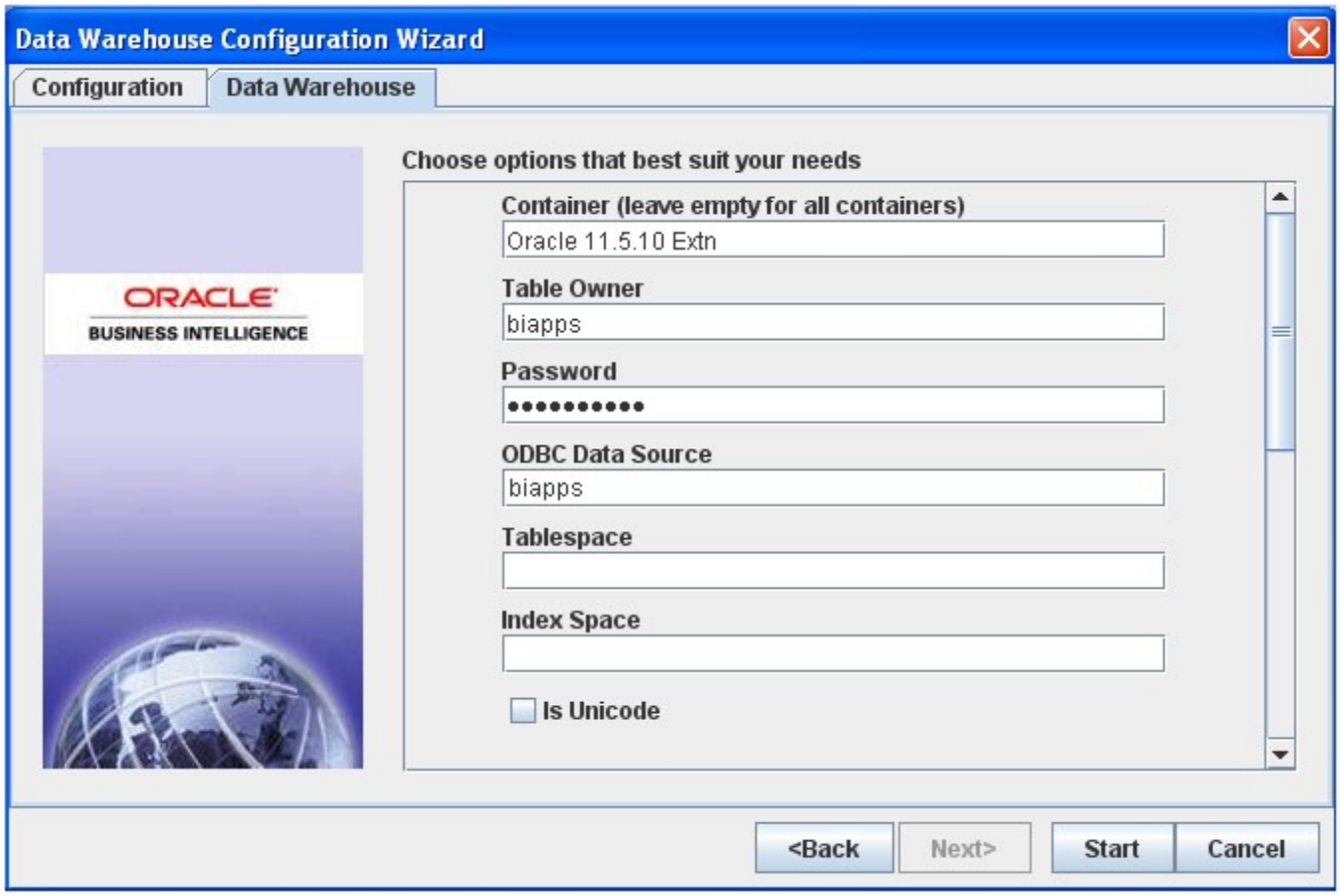
Configuring the DAC Container

Creating tables in the Data Warehouse

Navigate to Tools->ETL Management -> Configure and select the option Create/Upgrade Data Warehouse Tables.

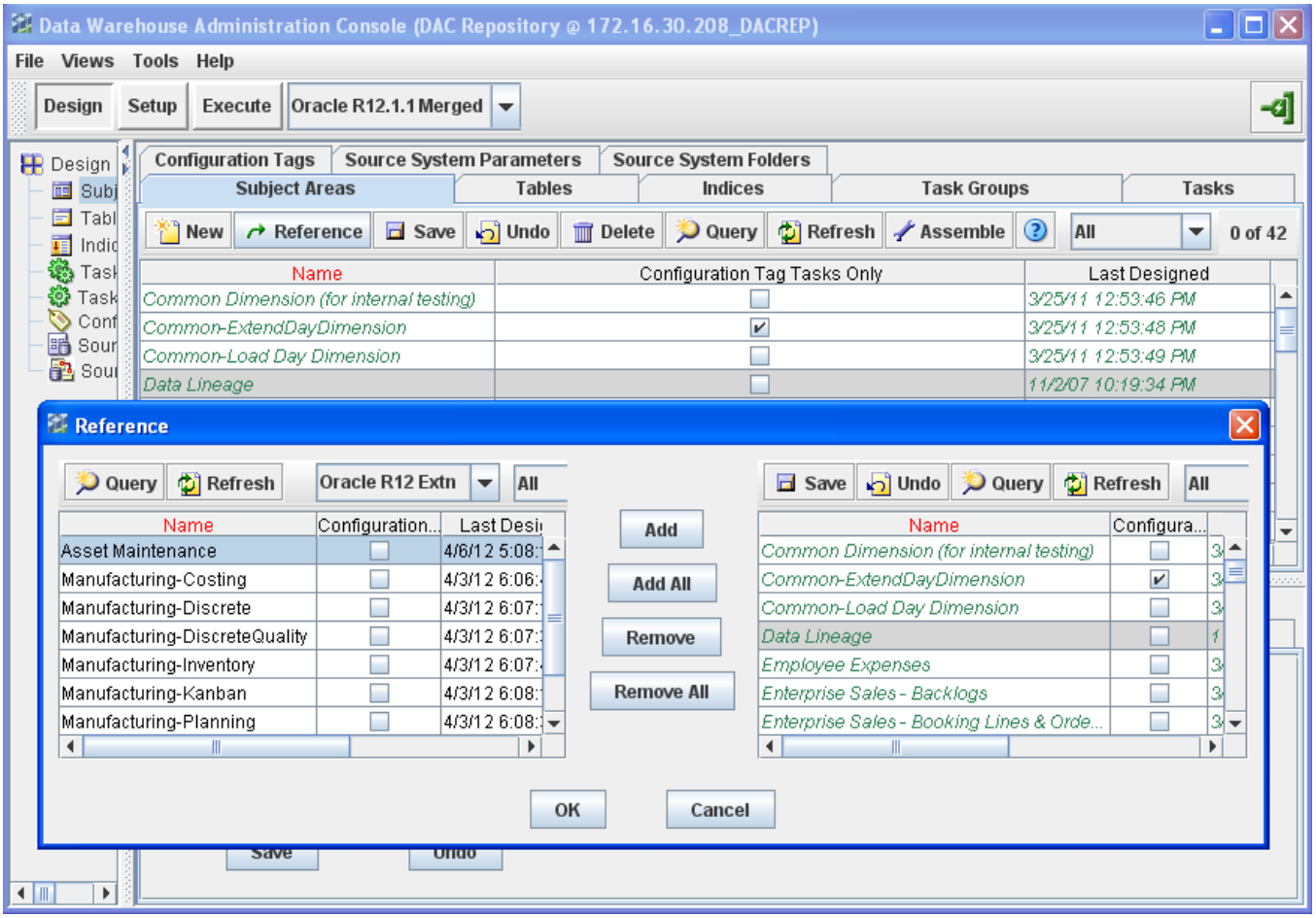


In the screen that follows, provide the name of the Extension Container and the data warehouse connection details.



Creating References

Switch to the production container and create references for the following objects from the Extension Container as shown in the below screenshot.



- Reference all the Source system folders
- Reference all Table definitions.
  -
- Reference all Index definitions
- Reference all the Tasks
  - After referencing, the table types of source tables for tasks will be missing. Please refer the Extension container for the correct table types and change accordingly. Here is the navigation
    Go to Tasks –> Sub tab Source Tables → Select Type

- Provide referential integrities for the Extension tables by referring the Extension container manually.

- If you are implementing the R12 Extension Container, please create an additional task group 'TASK_GROUP_Extract_MfgResource' in the merged container with the following tasks as child tasks and dependency order as 1 and 2 respectively. Set 'Truncate Always' option for this Task group.
    1. SDE_ORA_MfgResource
    2. SDE_ORA_MfgResourceDimension_CRResource_Process
- Modify the seeded Task group 'TASK_GROUP_Extract_CodeDimension' in the Production container and add the following tasks as child tasks.
    1. SDE_ORA_CodeDimension_KanbanCardStatus
    2. SDE_ORA_CodeDimension_KanbanCardType
    3. SDE_ORA_CodeDimension_KanbanDocumentType
    4. SDE_ORA_CodeDimension_KanbanErrorCode
    5. SDE_ORA_CodeDimension_KanbanSourceType
    6. SDE_ORA_CodeDimension_KanbanSupplyStatus
- Reference all the Subject areas and Assemble them individually

Disabling Tasks and Subject Areas

Please disable/inactive the un-licensed subject areas and tasks by referring to the matrix below

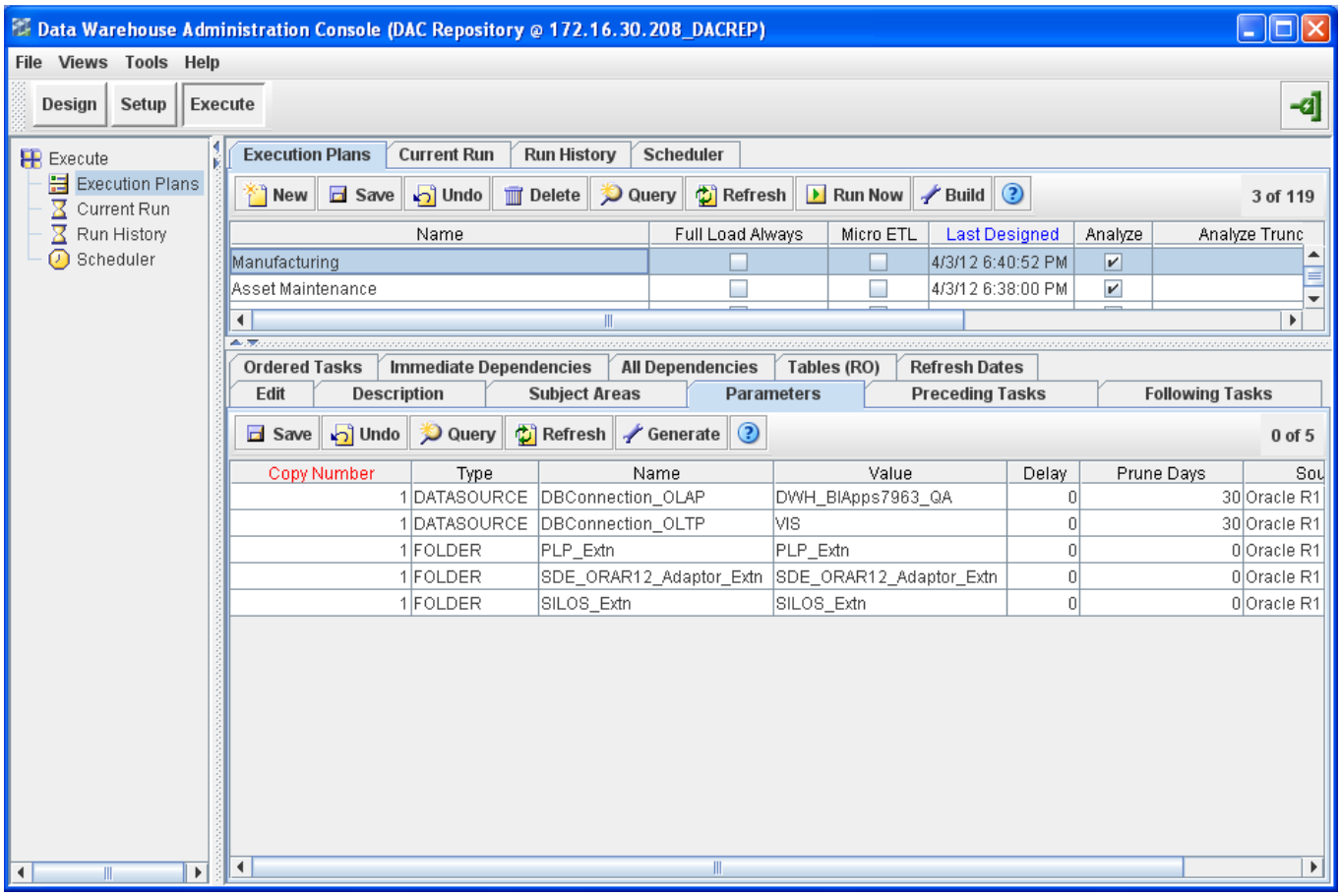
Subject Area	**Requires Oracle BI Applications License**
Manufacturing-Costing Manufacturing-Discrete Manufacturing-Discrete Quality Manufacturing-Inventory Manufacturing-Kanban Manufacturing-Planning	Manufacturing Analytics
Asset Maintenance	Enterprise Asset Management Analytics

Table Name	**DAC Task Name**	**Requires Oracle BI Applications License**
W_PURCH_ORDER_F	SIL_PurchaseOrderFact, SIL_PurchaseOrder-Fact_SoftDelete, SDE_ORA_PurchaseOrder-Fact, SIL_PurchaseOrderFact_IdentifyDelete, SDE_ORA_PurchaseOrderFact_Primary	Procurement and Spend Analytics

W_PURCH_SCHEDULE_LINE_F	SIL_PurchaseScheduleLinesFact, SIL_PurchaseScheduleLinesFact_SoftDelete, SDE_ORA_PurchaseScheduleLinesFact, SIL_PurchaseScheduleLinesFact_IdentifyDelete, SDE_ORA_PurchaseScheduleLinesFact_Primary	Procurement and Spend Analytics
W_SALES_ORDER_LINE_F	PLP_SalesOrderLinesAggregate_Load, PLP_SalesOrderLinesAggregate_Derive, PLP_SalesOrderLinesFact_Customers_First_Order_Update, PLP_SalesOrderLinesFact_InvoicedQty_Update, PLP_SalesOrderLinesFact_RollupAmt_Update, PLP_SalesOrderLinesFact_ShippedQty_Update, SIL_SalesOrderLinesFact, SIL_SalesOrderLinesFact_SoftDelete, SDE_ORA_SalesOrderLinesFact, SIL_SalesOrderLinesFact_IdentifyDelete, SDE_ORA_SalesOrderLinesFact_Primary, PLP_SalesOrderLinesAggregate_Derive_PostLoadImage, SIL_SalesOrderLinesAggregate_Derive_PreLoadImage, SIL_SalesOrderLinesAggregate_Derive_PreSoftDeleteImage	Supply Chain and Order Management Analytics

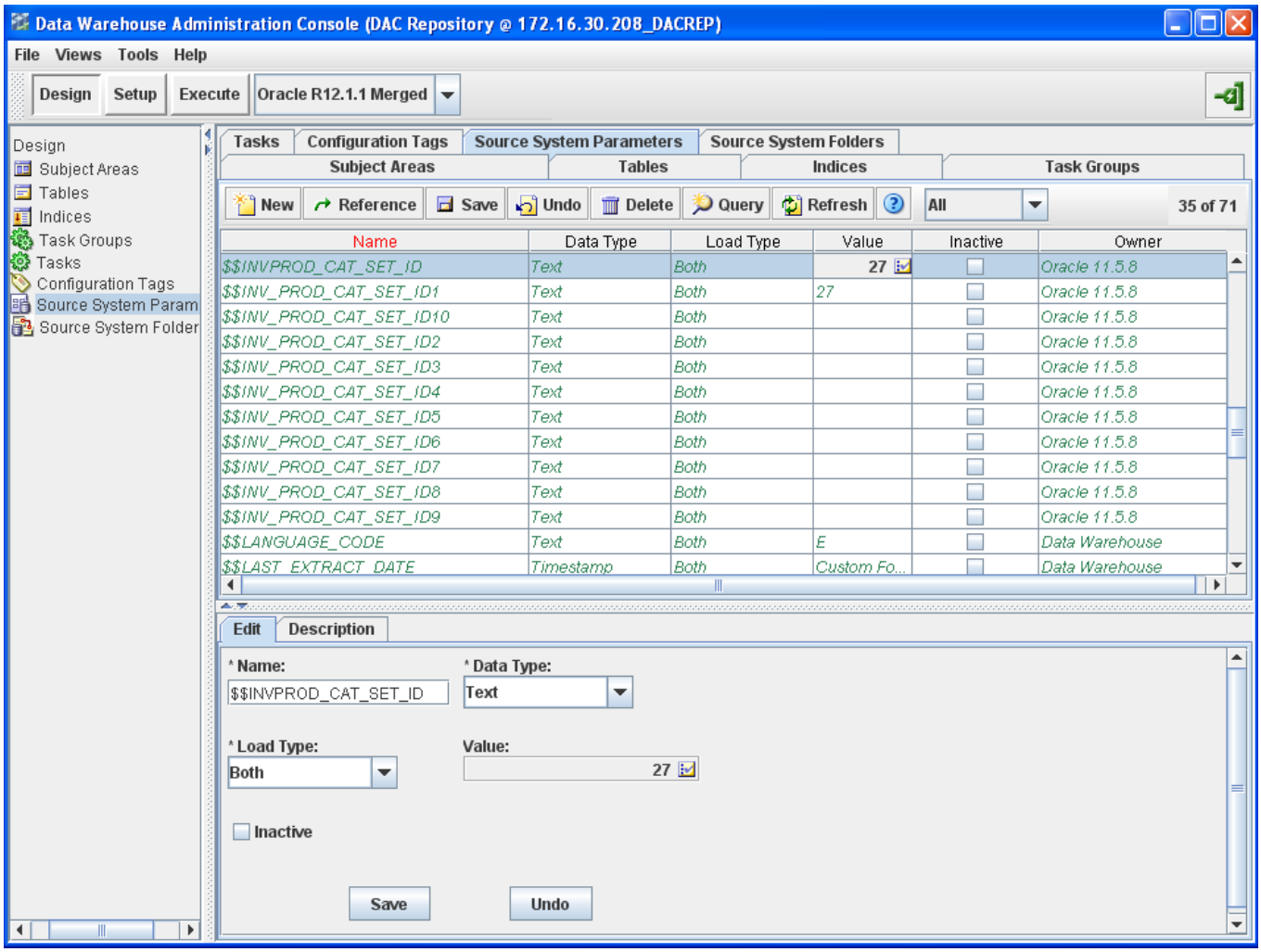
Building the Execution Plan

Build a new Execution Plan with the Subject Areas from existing execution plan and the extension subject areas. After generating parameters, set appropriate values for parameters during the build.



Verifying the Source System Parameters

Oracle BI Applications 7.9.6.3 Extension Pack requires common dimensions like Organization, Product and Time to be loaded. For more details please refer to the corresponding version of the Oracle BI Applications Configuration Guide for Informatica PowerCenter Users that can be obtained on OTN (link).



Please ensure that the following Task level parameters are set for following tasks

Task	Parameter
SDE_ORA_ProductDimension	Master_org
SIL_DayDimension	START_DATE, END_DATE

Configuring the RPD and Webcatalog Objects

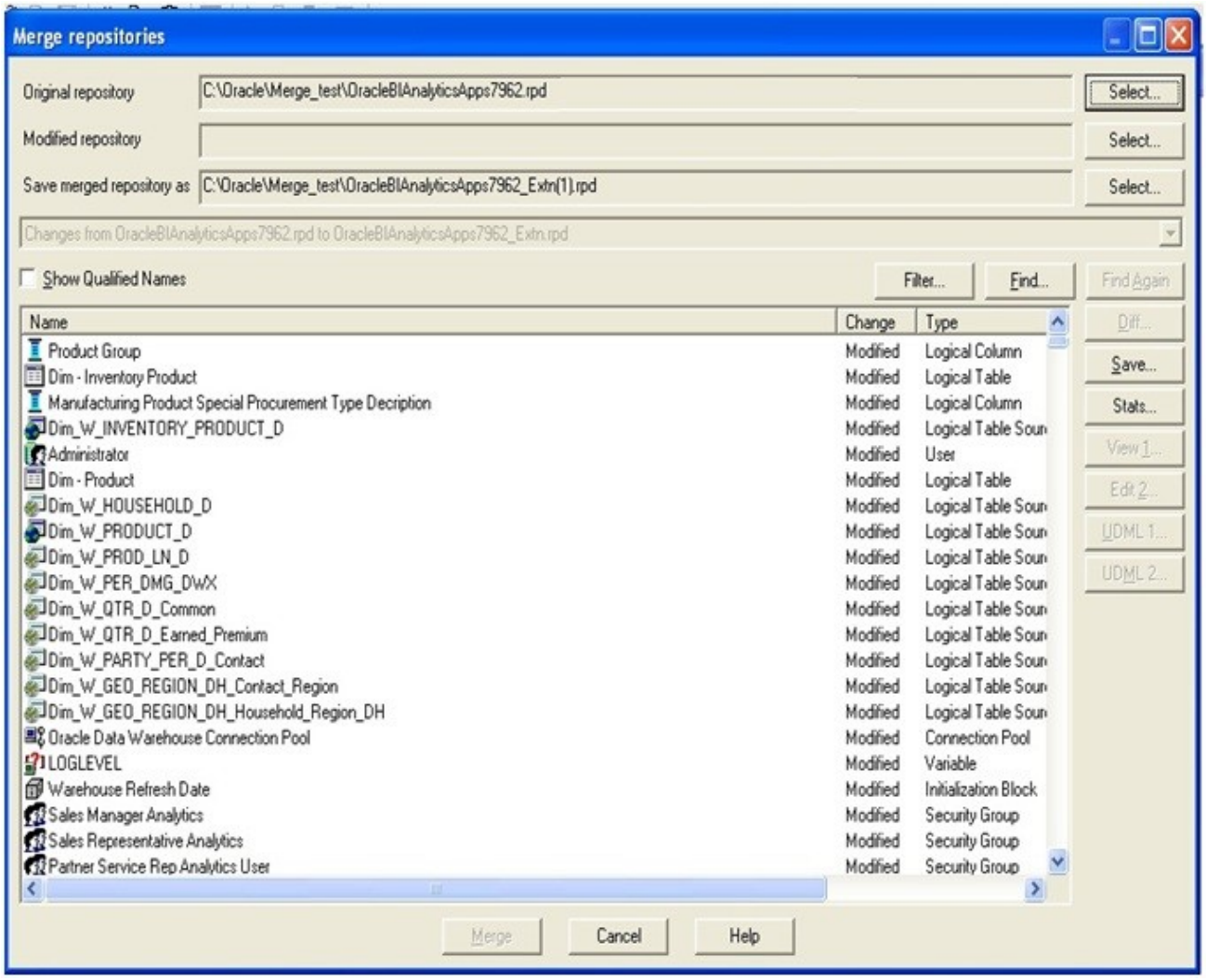
RPD Merge

An RPD merge is only required for adding Oracle BI Applications 7.9.6.3 Extension Pack release to a customized BI applications implementation. If this is the case please follow the instructions below. Otherwise it is advised that you use the RPD that has been shipped in the Oracle BI Applications 7.9.6.3 Extension Pack as your Production RPD.

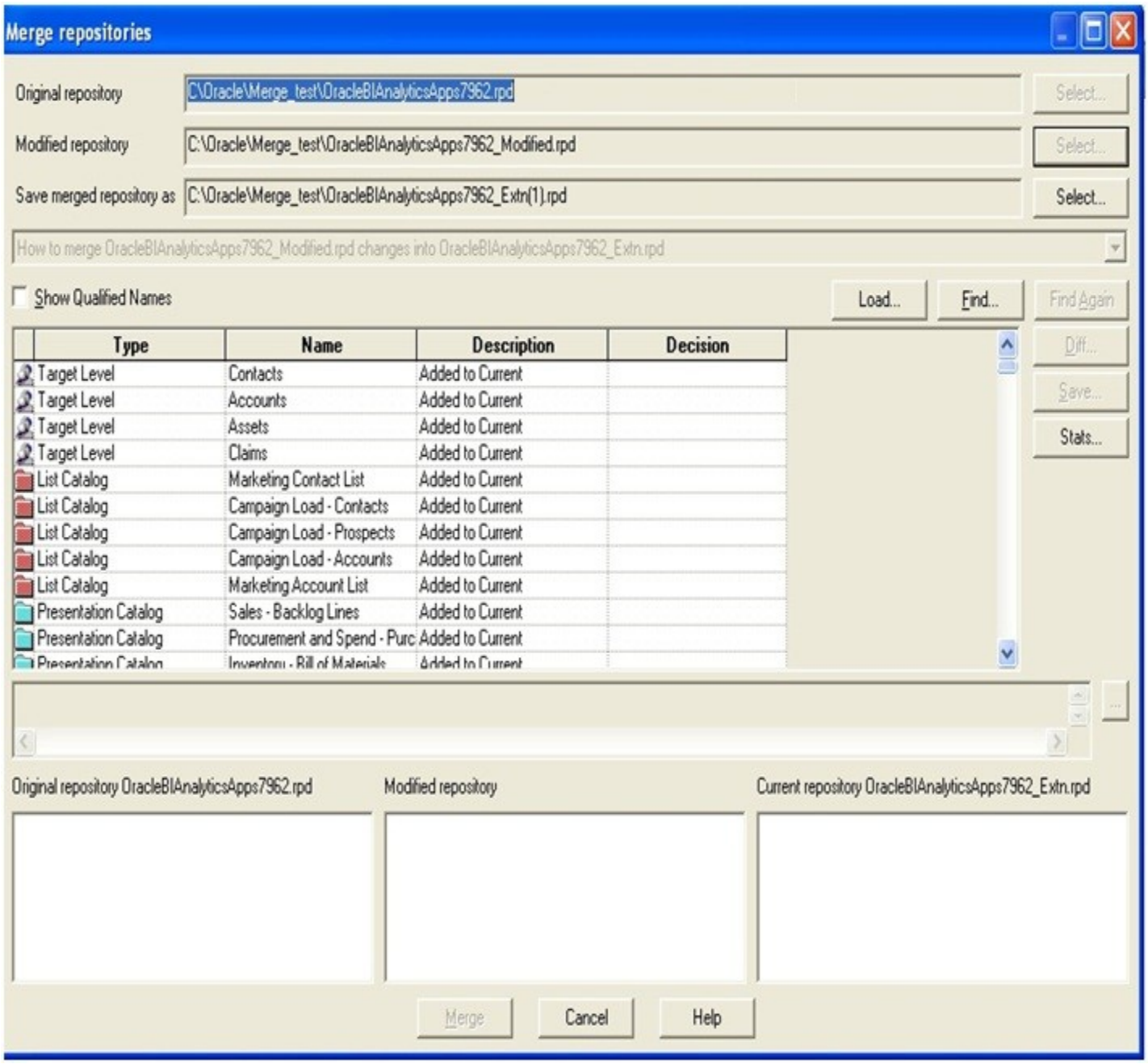
A three-way merge should be performed to integrate the contents of the Production RPD and the Extension RPD. The instructions to do a three-way merge are given below.

For 7961 and 7962 (10g 10.1.3.x.x)

1) In the BI Administration tool, open the OracleBIAnalyticsApps_Extn.rpd.
2) Select the menu File > Merge
3) Select the Original Repository (BI Apps seeded RPD). This is the RPD that was extracted from the Oracle Installer for 796*x*.
4) Once the original repository is selected, the Merge Repositories window appears. Note that the OracleBIAnalyticsApps_796_Original repository is reflected in the Original repository field. Also, note that the changes made in the current repository are listed.
5) Click the Select button beside the Modified repository field to select the modified RPD file [Production RPD]

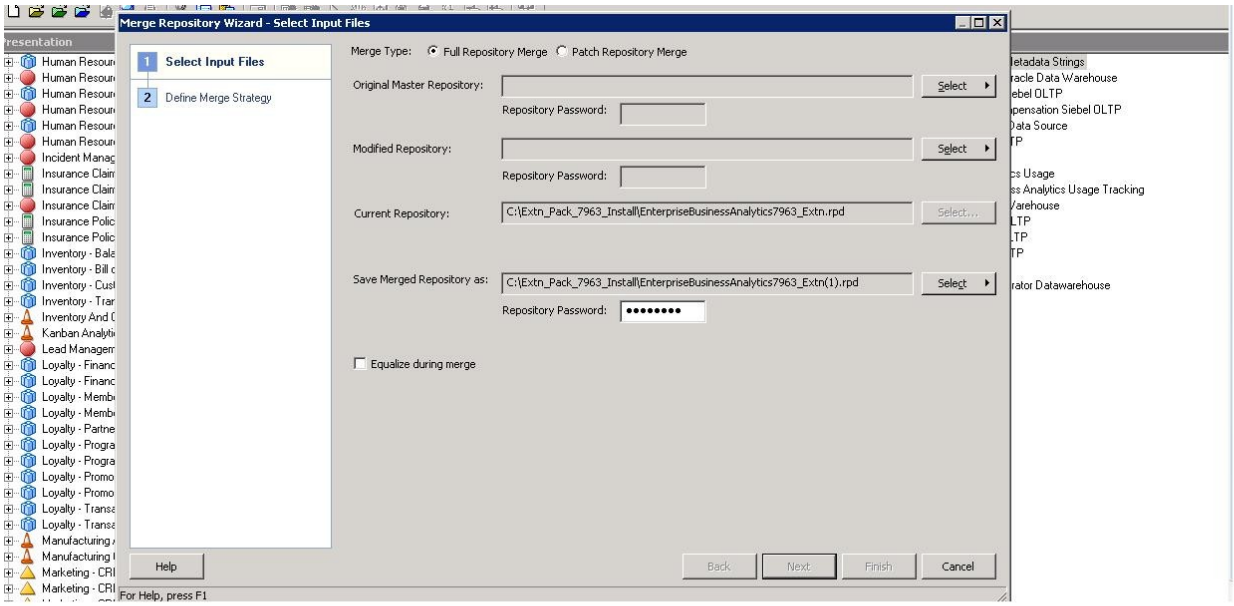


6) Now click the Select button beside the "Save merged repository as" field, to give the desired name for the merged repository which will be created as a result of this merge process.
7) You can make the decision to select the changes in the current repository or modified repository appropriately. Scroll to the right to see the Decision column and select Modified or Current from the drop down list.

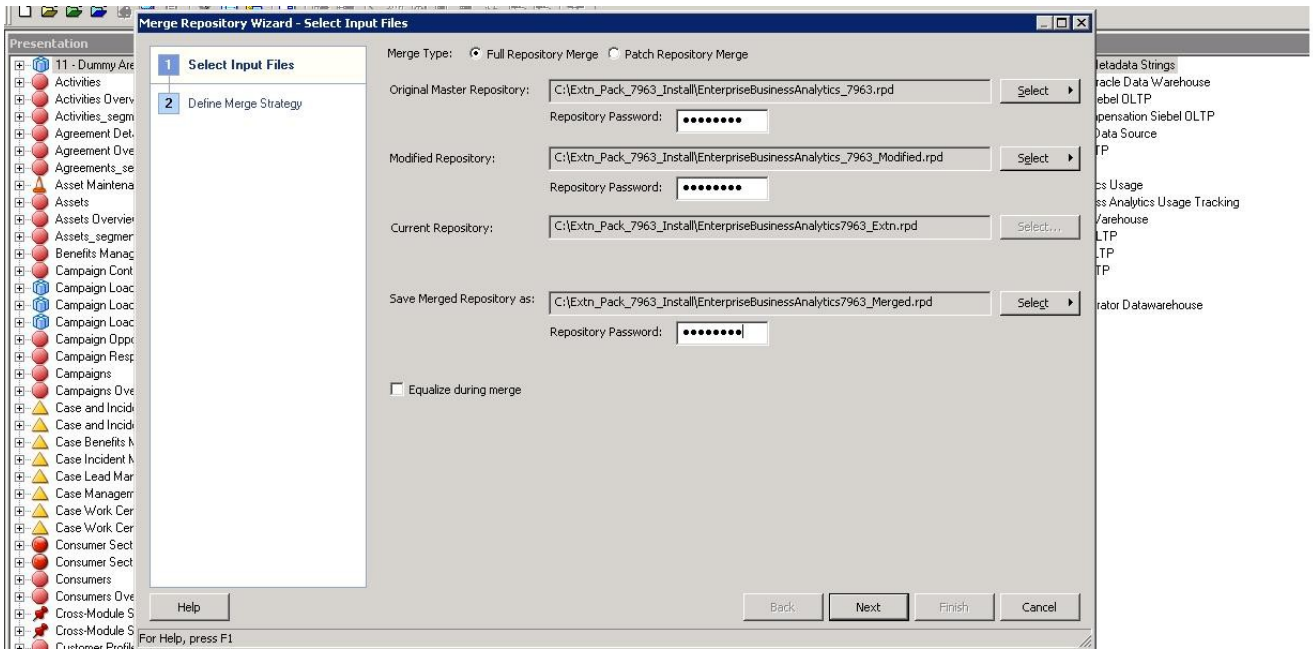


For 7963 (11g 11.1.1.6.2)

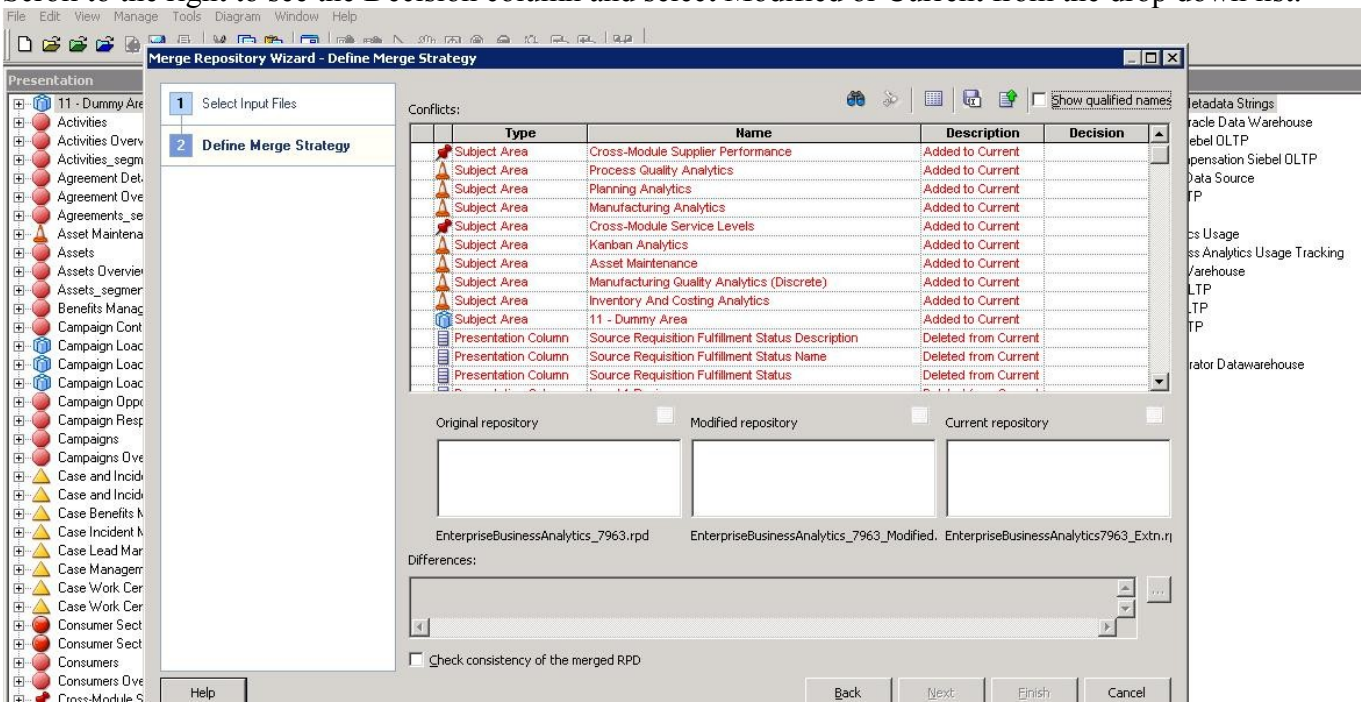
1) In the BI Administration tool, open the OracleBIAnalyticsApps_Extn.rpd.(7963_Extn)
2) Select the menu File > Merge
   A screen will appear asking Original Modified and Merged Repository Details as shown below



3) Select Merge Type as Full Repository Merge, Equalize During the Merge (Optional)
4) Select the Original Repository (BI Apps seeded RPD). This is the RPD that was extracted from the Oracle Installer for 7963.
5) Select Modified Repository field to select the modified RPD file [Production RPD]
6) Provide desired name for the merged repository which will be created as a result of this merge process. Click Next



7) You can make the decision to select the changes in the current repository or modified repository appropriately.
Scroll to the right to see the Decision column and select Modified or Current from the drop down list.

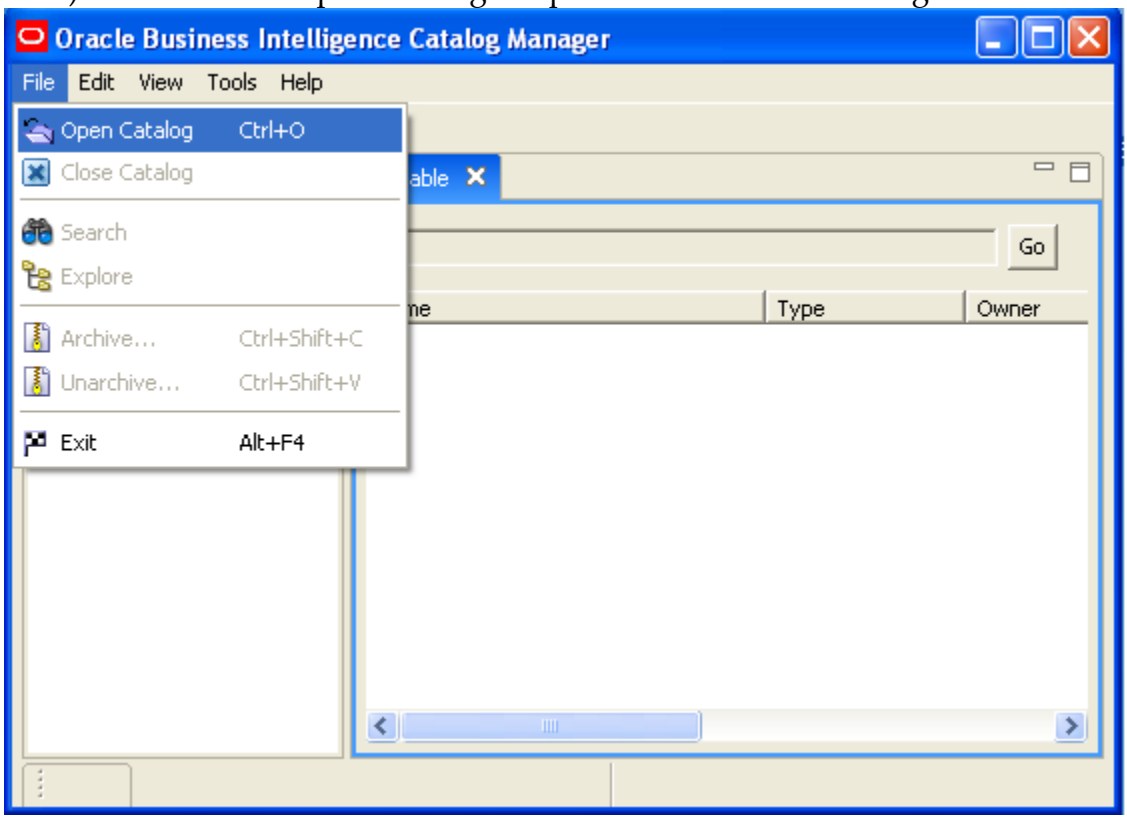


8) Click on Finish to Complete the Process

Catalog Merge

A webcatalog merge is required only for a customized BI applications implementation. Otherwise it is advised that you use the Webcatalog that has been shipped in the Oracle BI Applications 7.9.6.3 Extension Pack. Here are the steps for Catalog Merge.

1) Choose File->Open Catalog to open the Production catalog in offline mode.



2) Open the Extension Web Catalog from the Staging Area in offline mode using the Catalog Manager.
3) Copy the folders from the Extension Web Catalog into the Production Web Catalog.

Copyright ©2009, 2012, Oracle and / or its affiliates. All rights reserved. http://www.oracle.com