Oracle® Business Intelligence Applications

Upgrade Guide

11*g* Release 1 (11.1.1.10.2)

E72290-05

June 2017

Provides steps to upgrade Oracle Business Intelligence Applications from 11.1.1.10.1 to 11.1.1.10.2.

ORACLE

Oracle Business Intelligence Applications Upgrade Guide, 11*g* Release 1 (11.1.1.10.2)

E72290-05

Copyright © 2015, 2017, Oracle and/or its affiliates. All rights reserved.

Primary Author: Padma Rao

Contributors: Oracle Business Intelligence development, product management, and quality assurance teams

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

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

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

U.S. GOVERNMENT END USERS: Oracle programs, including any operating system, integrated software, any programs installed on the hardware, and/or documentation, delivered to U.S. Government end users are "commercial computer software" pursuant to the applicable Federal Acquisition Regulation and agency-specific supplemental regulations. As such, use, duplication, disclosure, modification, and adaptation of the programs, including any operating system, integrated software, any programs installed on the hardware, and/or documentation, shall be subject to license terms and license restrictions applicable to the programs. No other rights are granted to the U.S. Government.

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

Oracle and Java are registered trademarks of Oracle and/or its affiliates. Other names may be trademarks of their respective owners.

Intel and Intel Xeon are trademarks or registered trademarks of Intel Corporation. All SPARC trademarks are used under license and are trademarks or registered trademarks of SPARC International, Inc. AMD, Opteron, the AMD logo, and the AMD Opteron logo are trademarks or registered trademarks of Advanced Micro Devices. UNIX is a registered trademark of The Open Group.

This software or hardware and documentation may provide access to or information about content, products, and services from third parties. Oracle Corporation and its affiliates are not responsible for and expressly disclaim all warranties of any kind with respect to third-party content, products, and services unless otherwise set forth in an applicable agreement between you and Oracle. Oracle Corporation and its affiliates will not be responsible for any loss, costs, or damages incurred due to your access to or use of third-party content, products, or services, except as set forth in an applicable agreement between you and Oracle.

Contents

Preface v

Audience v
Documentation Accessibility v
Related Documents v
Conventions v

1 Upgrade Process – Overview and Prerequisites

Overview of Upgrade Process 1-1
Upgrade Prerequisites 1-2
Upgrading Oracle BI Enterprise Edition From 11.1.1.7.0 to 11.1.1.9.0 1-2
Upgrading ODI From 11.1.1.7.0 To 11.1.1.9.0 1-19

2 Oracle BI Applications Infrastructure, Metadata, and Schema Updates

Downloading Oracle BI Applications 11.1.1.10.2 Software and Files 2-1
Upgrading Oracle BI Applications Binaries to Release 11.1.1.10.2 2-1
Applying Fusion Middleware Platform Patches for Oracle BI Applications 11.1.1.10.2 2-3
Upgrading BIACOMP Schema 2-4
Upgrading the JAZN File 2-8
Upgrading the Repository 2-8
Upgrading the Oracle Data Integrator Repository 2-9
Creating a Backup of the 11.1.1.10.1 ODI Repository 2-9
Exporting Content from the 11.1.1.10.1 ODI Repository 2-10
Noting the ID of the 11.1.1.10.1 ODI Repository 2-15
Dropping the 11.1.1.10.1 ODI Repository Schema 2-16
Creating the ODI Repository for Oracle BI Applications 11.1.1.10.2 2-18
Copying Source Files for Upgrading 2-21
Importing Content into the 11.1.1.10.2 ODI Repository 2-22
Running Scripts by Connecting to the Upgraded ODI Repository Schema 2-32
Reconfiguring External Authentication 2-32
Regenerating Load Plans 2-34
Importing and Applying ETL Customizations 2-35
Importing Datastores 2-36

Importing Customized ETL tasks 2-40

3 Oracle Business Analytics Warehouse Schema and Data Upgrades

Performing Pre-Upgrade Tasks 3-1
Granting New Required Privileges to <prefix>_DW 3-1
Upgrade Oracle Business Analytics Warehouse Schema and Data 3-1
Performing Post-Upgrade Tasks 3-3
Running the Source Upgrade Load Plan 3-3

A New ETL Content in Oracle BI Applications 11.1.1.10.2

Financials A-1
Procurement and Spend A-5
Manufacturing A-6
Supply Chain Management A-6
Human Capital Management A-7

Preface

Oracle Business Intelligence Applications (Oracle BI Applications) is a comprehensive suite of prebuilt solutions that delivers pervasive intelligence across an organization, empowering users at all levels — 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 and corporate data warehouses into actionable insight that enables more effective actions, decisions, and processes.

Oracle BI Applications is built on Oracle Business Intelligence Suite Enterprise Edition (Oracle BI EE), a comprehensive set of enterprise business intelligence tools and infrastructure, including a scalable and efficient query and analysis server, an ad-hoc query and analysis tool, interactive dashboards, proactive intelligence and alerts, and an enterprise reporting engine.

Audience

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

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.

Access to Oracle Support

Oracle customers that have purchased support have access to electronic support through My Oracle Support. For information, visit http://www.oracle.com/pls/topic/lookup?ctx=acc&id=info or visit http://www.oracle.com/pls/topic/lookup?ctx=acc&id=trs if you are hearing impaired.

Related Documents

See the Oracle BI Applications documentation library for the complete set of Oracle BI Applications documents.

Conventions

These text conventions are used in this document.

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

1

Upgrade Process – Overview and Prerequisites

This section provides an overview of the Oracle Business Intelligence Applications (Oracle BI Applications) upgrade process from 11.1.1.10.1 to 11.1.1.10.2.

Topics

- Overview of Upgrade Process
- Upgrade Prerequisites

Overview of Upgrade Process

Upgrade of Oracle BI Applications from release 11.1.1.10.1 to 11.1.1.10.2 includes upgrades to components, repositories (schema and content), and data.

To upgrade Oracle BI Applications release 11.1.1.10.1 to 11.1.1.10.2, you must upgrade the following:

- Platform components
- Oracle BI Applications binaries
- Oracle BI Applications Component Repository (BIACOMP)
- the JAZN file, the repository, and Presentation Catalog
- Oracle Data Integrator (ODI) repository content (BIA_ODIREPO)
- Oracle Business Analytics Warehouse (DW) - schema
- Data migration of existing data in the Oracle Business Analytics Warehouse

> **Note:** The upgrade from Oracle BI Applications 7.9.6.*x* to Oracle BI Applications 11.1.1.10.2 is not supported. Additionally, upgrade from Oracle BI Applications for Oracle Fusion Applications (11.1.1.5.*x* to 11.1.1.7.0 or 11.1.1.8.0) is not supported.

Upgrade Process Flow

Perform the following steps to upgrade Oracle BI Applications 11.1.1.10.1 to 11.1.1.10.2:

1. Complete the upgrade prerequisites.
2. Run the Oracle BI Applications 11.1.1.10.2 installer to upgrade the Oracle BI Applications binaries from release 11.1.1.10.1 to 11.1.1.10.2.

3. Apply the Oracle Fusion Middleware patches for Oracle BI Applications 11.1.1.10.2.
4. Use the Patch Set Assistant (PSA) tool to upgrade BIACOMP schema (ATGLite, FSM, BIACM and BIACM_IO component upgrades).
5. Run script to upgrade deployment changes in Oracle BI Applications 11.1.1.10.2.
6. Use the BI Update Metadata tool to upgrade the JAZN.
7. Upgrade the repository and Presentation Catalog.
8. Apply client-side patches.
9. Upgrade the ODI Repository metadata (content).
10. Upgrade Oracle Business Analytics Warehouse schema and Migrate Data in Data Warehouse.

Upgrade Prerequisites

Complete the prerequisites before performing the upgrade from Oracle BI Applications 11.1.1.10.1 to Oracle BI Applications 11.1.1.10.2.

Ensure that you perform the following prerequisites:

- Take a backup of the MWHOME folder before upgrade.
- Review the Certification Matrix for Oracle BI Applications release 11.1.1.10.2 available in the Oracle Fusion Middleware Supported System Configurations information on Oracle Technology Network.

Upgrading Oracle BI Enterprise Edition From 11.1.1.7.0 to 11.1.1.9.0

Use these instructions to upgrade Oracle BI Enterprise Edition from 11.1.1.7.0 to 11.1.1.9.0.

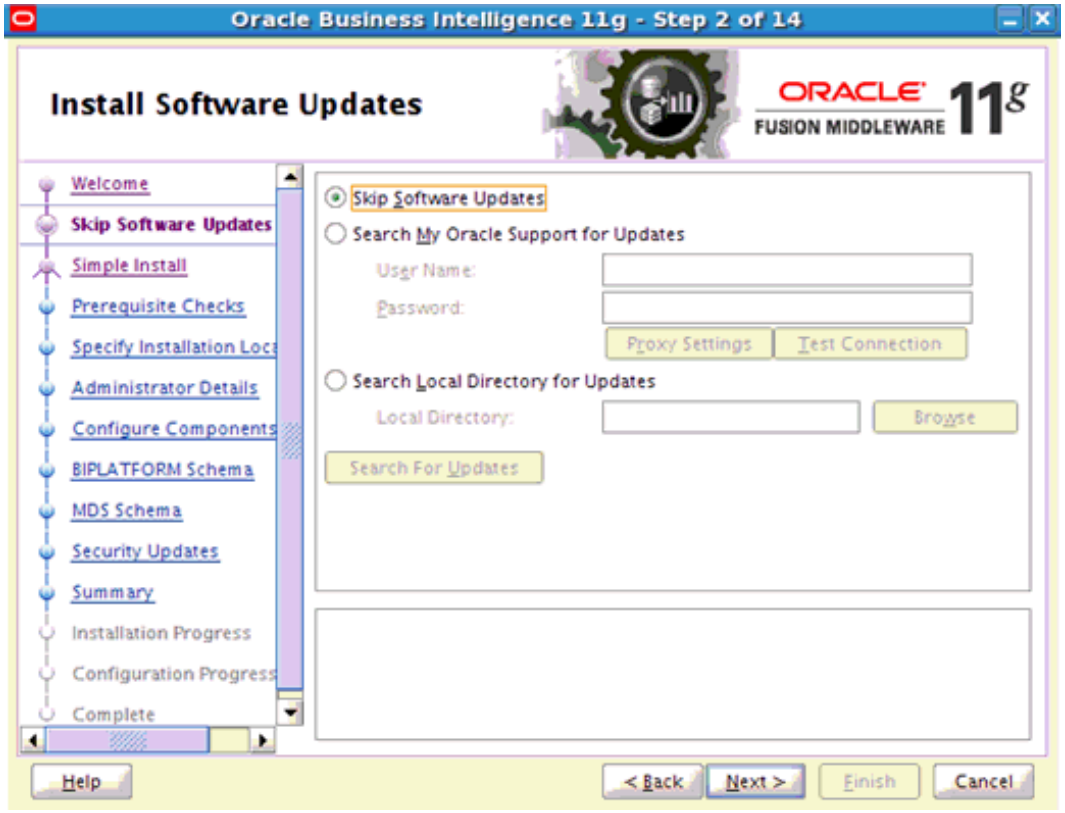
Oracle recommends that you follow the standard Oracle BI Enterprise Edition (Oracle BI EE) documentation before using these instructions. See My Oracle Support document (ID 2022915.1) titled *OBIEE 11g - How To Upgrade From OBIEE 11.1.1.7.0 To OBIEE 11.1.1.9.0*.

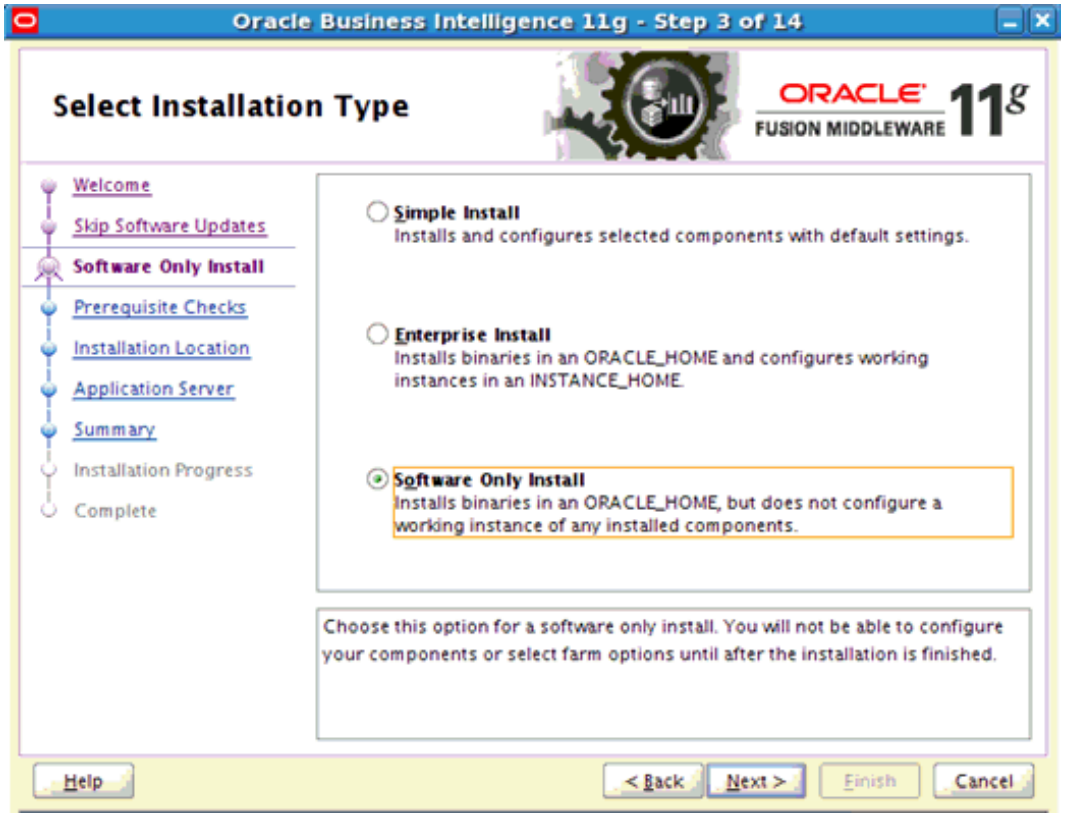
To upgrade Oracle BI EE from 11.1.1.7.0 to 11.1.1.9.0:

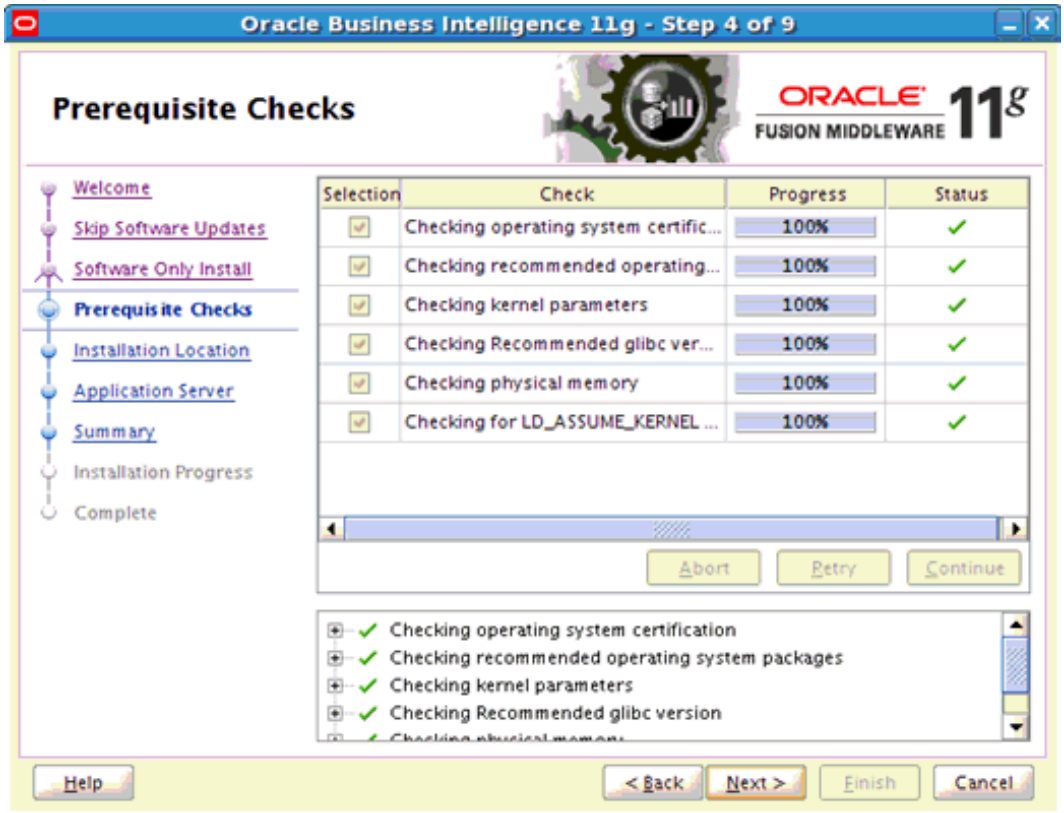
1. Perform the following general pre-patch tasks:
   - Stop all WebLogic Servers, Node Manager, OPMN, and OPMN-managed system components that are part of all Oracle BI domains that use the Middleware Home that you must patch. Additionally, on Windows systems, stop the component that is called Oracle WebLogic NodeManager (name).
   - Back up the directories.
2. Download the appropriate product installers.
3. Run the Oracle BI Product Installer, and perform a Software Only installation, specifying the existing Middleware home to be patched.
4. Switch to the directory where the Oracle BI EE software files are unzipped.

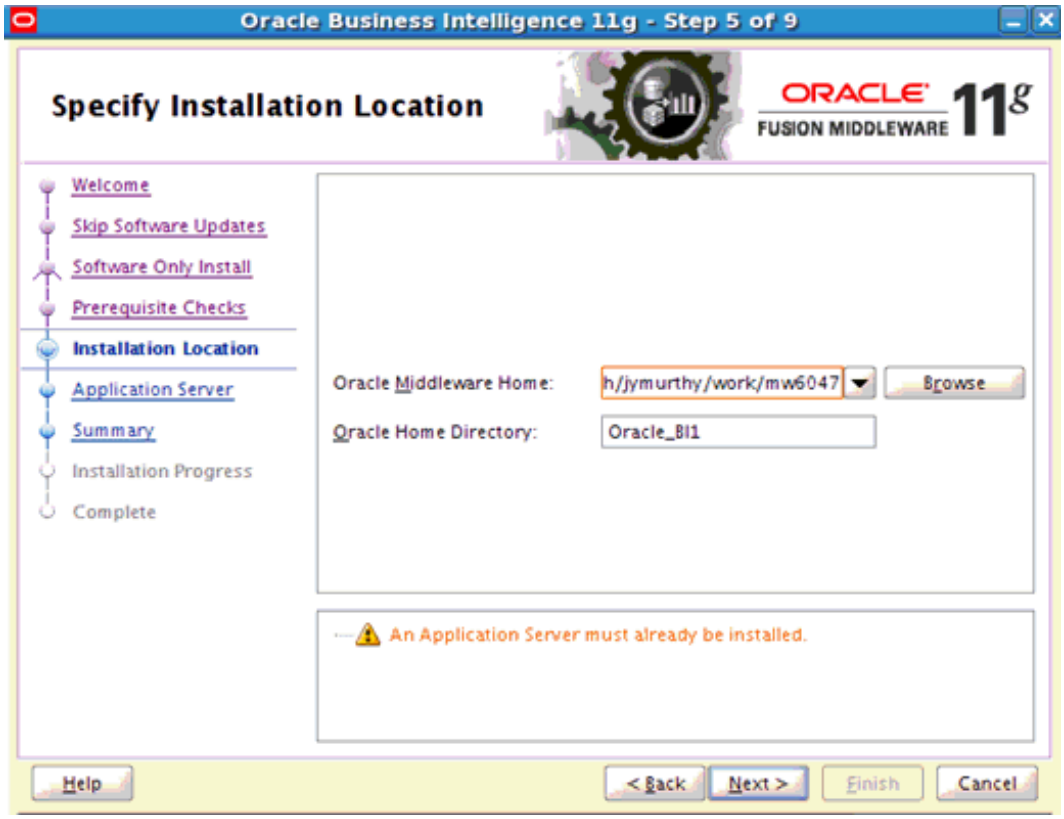
5. Switch to `Disk1` directory under that directory and run the installer as follows:

```
[aime1@slc01aym Disk1]$ ./runInstaller -jreLoc $ORACLE_HOME/jdk -invPtrLoc
$ORACLE_HOME/oraInst.loc where ORACLE_HOME = BI_ORACLE_HOME
```

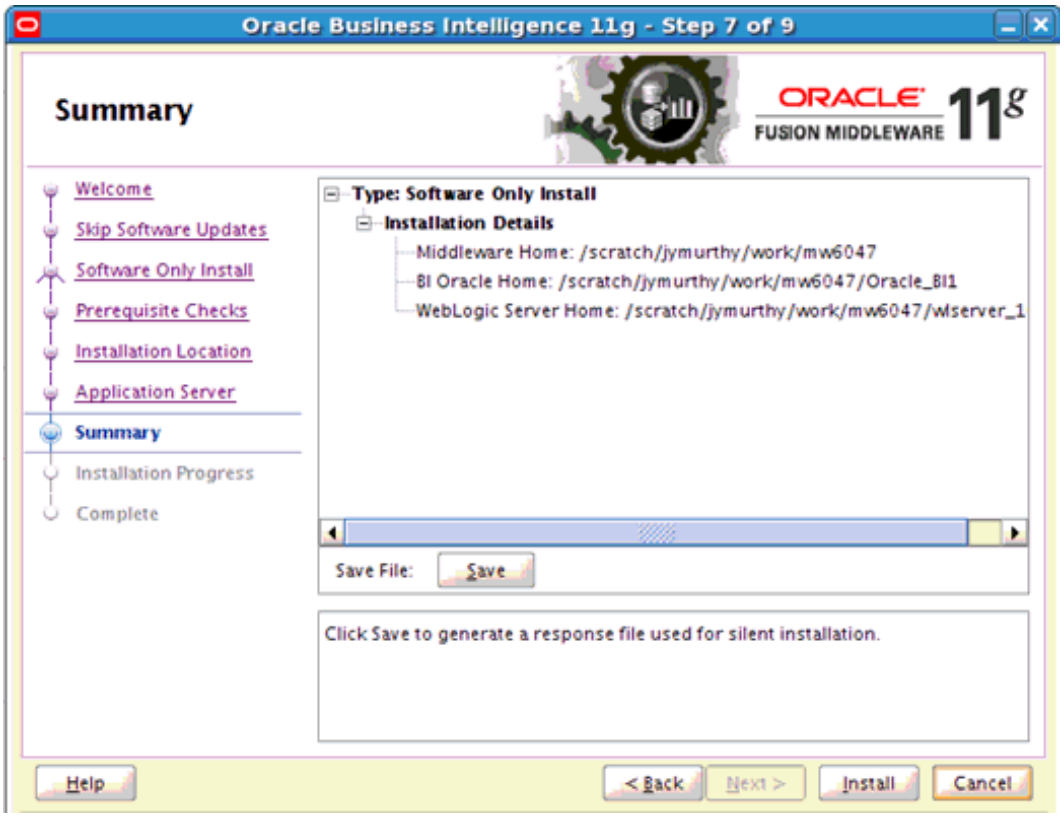

Oracle Business Intelligence 11g - Step 2 of 14
Install Software Updates
ORACLE
FUSION MIDDLEWARE 11g
Welcome
Skip Software Updates
Simple Install
Prerequisite Checks
Specify Installation Loc
Administrator Details
Configure Components
BIPLATFORM Schema
MDS Schema
Security Updates
Summary
Installation Progress
Configuration Progress
Complete
Skip Software Updates
Search My Oracle Support for Updates
User Name:
Password:
Proxy Settings
Test Connection
Search Local Directory for Updates
Local Directory:
Browse
Search For Updates
Help
< Back
Next >
Finish
Cancel


Oracle Business Intelligence 11g - Step 3 of 14
Select Installation Type
ORACLE
FUSION MIDDLEWARE 11g
Welcome
Skip Software Updates
Software Only Install
Prerequisite Checks
Installation Location
Application Server
Summary
Installation Progress
Complete
Simple Install
Installs and configures selected components with default settings.
Enterprise Install
Installs binaries in an ORACLE_HOME and configures working instances in an INSTANCE_HOME.
Software Only Install
Installs binaries in an ORACLE_HOME, but does not configure a working instance of any installed components.
Choose this option for a software only install. You will not be able to configure your components or select farm options until after the installation is finished.
Help
< Back
Next >
Finish
Cancel


Oracle Business Intelligence 11g - Step 4 of 9
Prerequisite Checks
ORACLE FUSION MIDDLEWARE 11g
Welcome
Skip Software Updates
Software Only Install
Prerequisite Checks
Installation Location
Application Server
Summary
Installation Progress
Complete
Selection
Check
Progress
Status
Checking operating system certific...
Checking recommended operating...
Checking kernel parameters
Checking Recommended glibc ver...
Checking physical memory
Checking for LD_ASSUME_KERNEL ...
100%
Abort
Retry
Continue
Checking operating system certification
Checking recommended operating system packages
Checking kernel parameters
Checking Recommended glibc version
Help
< Back
Next >
Finish
Cancel

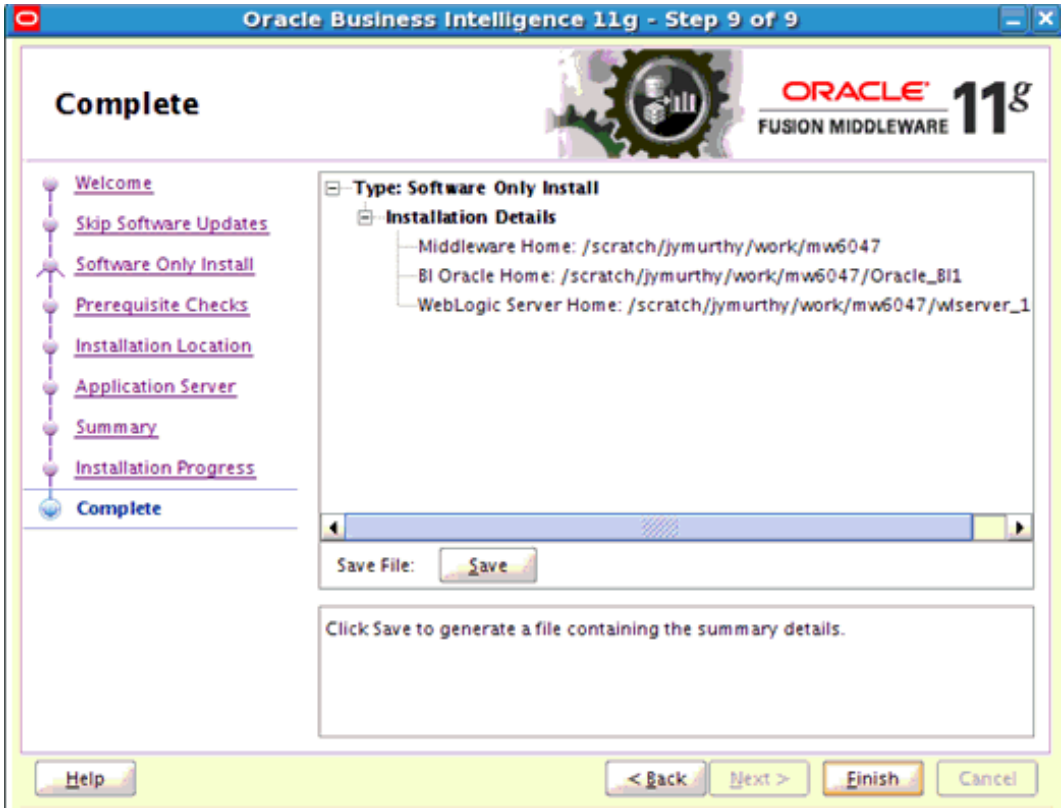

Oracle Business Intelligence 11g - Step 5 of 9
Specify Installation Location
ORACLE FUSION MIDDLEWARE 11g
Welcome
Skip Software Updates
Software Only Install
Prerequisite Checks
Installation Location
Application Server
Summary
Installation Progress
Complete
Oracle Middleware Home:
h/jymurthy/work/mw6047
Browse
Oracle Home Directory:
Oracle_BI1
An Application Server must already be installed.
Help
< Back
Next >
Finish
Cancel

Oracle Business Intelligence 11g - Step 6 of 9
Application Server
ORACLE
FUSION MIDDLEWARE 11g
Welcome
Skip Software Updates
Software Only Install
Prerequisite Checks
Installation Location
Application Server
Summary
Installation Progress
Complete
WebLogic Server
Application Server Location
/scratch/jymurthy/work/mw6047
Browse
WLS installation detected, WebLogic Server support available in this Middleware Home.
Help
< Back
Next >
Finish
Cancel


Oracle Business Intelligence 11g - Step 7 of 9
Summary
ORACLE
FUSION MIDDLEWARE 11g
Welcome
Skip Software Updates
Software Only Install
Prerequisite Checks
Installation Location
Application Server
Summary
Installation Progress
Complete
Type: Software Only Install
Installation Details
Middleware Home: /scratch/jymurthy/work/mw6047
BI Oracle Home: /scratch/jymurthy/work/mw6047/Oracle_BI1
WebLogic Server Home: /scratch/jymurthy/work/mw6047/wlserver_1
Save File:
Save
Click Save to generate a response file used for silent installation.
Help
< Back
Next >
Install
Cancel

Oracle Business Intelligence 11g - Step 8 of 9
Installation Progress
ORACLE
FUSION MIDDLEWARE
11g
Prerequisite Checks
Installation Location
Application Server
Summary
Installation Progress
Complete
Progress
1%
Copying Files ..
Install Log /home/jymurthy/oraInventory/logs/install2015-09-22_12-16-43AM
Copying files for: Enterprise Manager Application Server Plugin -- Common Management Service Support 11.1.1.9.0
Copying files for: Enterprise Manager Application Server Plugin -- AS Management Service Support 11.1.1.9.0
Performance Management Applications
Driving Profitable Growth
ORACLE
Help
< Back
Next >
Finish
Cancel

Oracle Business Intelligence 11g - Step 8 of 9
Installation Progress
ORACLE
FUSION MIDDLEWARE
11g
Prerequisite Checks
Installation Location
Application Server
Summary
Installation Progress
Complete
Progress
100%
Completed ..
Install Log /home/jymurthy/oraInventory/logs/install2015-09-22_12-16-43AM
Installation Successful.
Starting execution of post install scripts
Execution of post install scripts completed
Performance Management Applications
Driving Profitable Growth
ORACLE
Help
< Back
Next >
Finish
Cancel

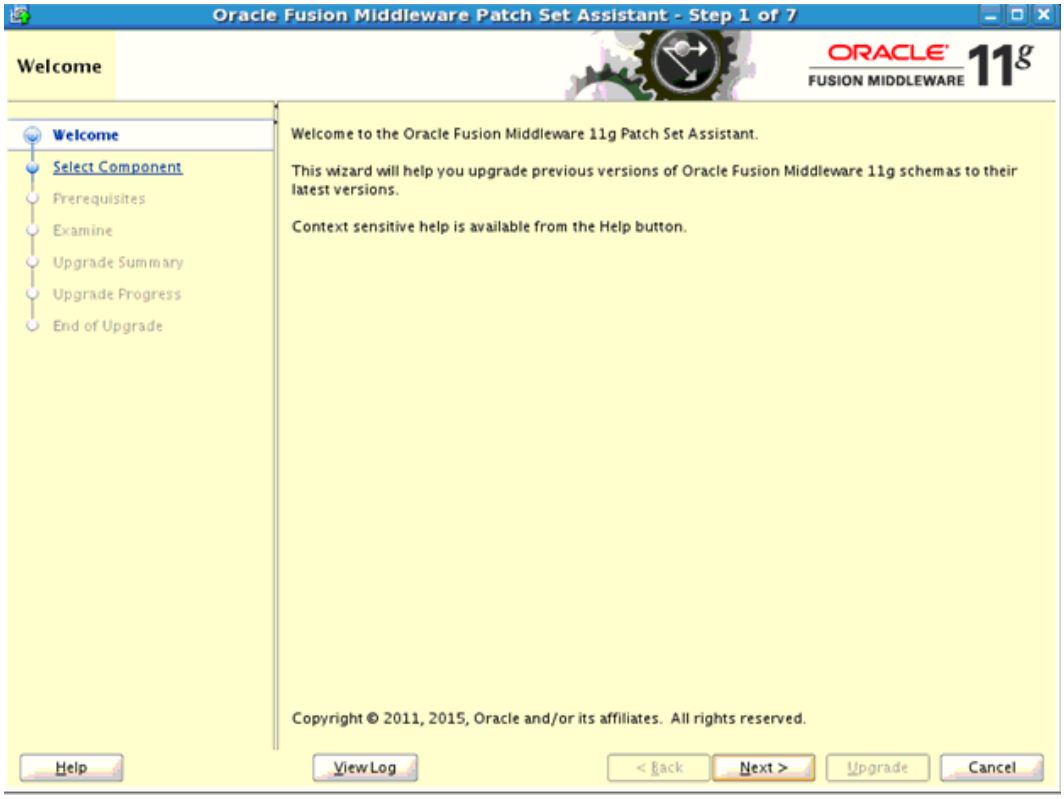


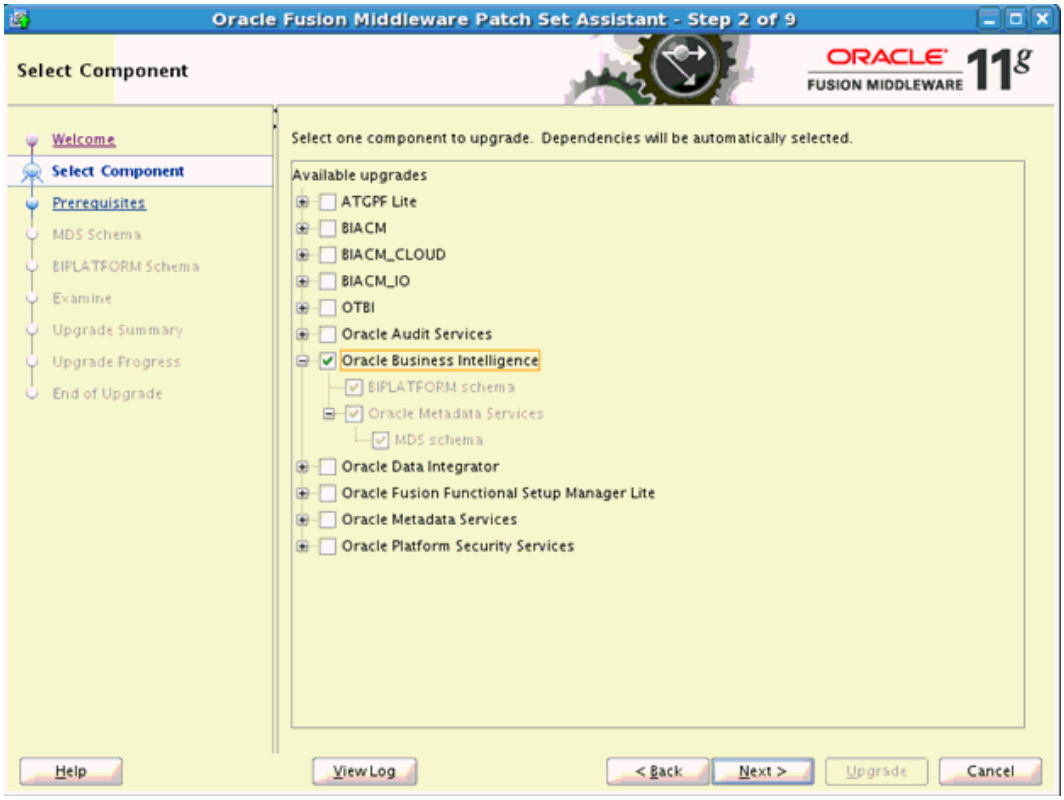
6. Run the PSA for each of the Oracle BI schemas created with Repository Creation Utility (RCU), as described in the following list. Update the MDS schema first.

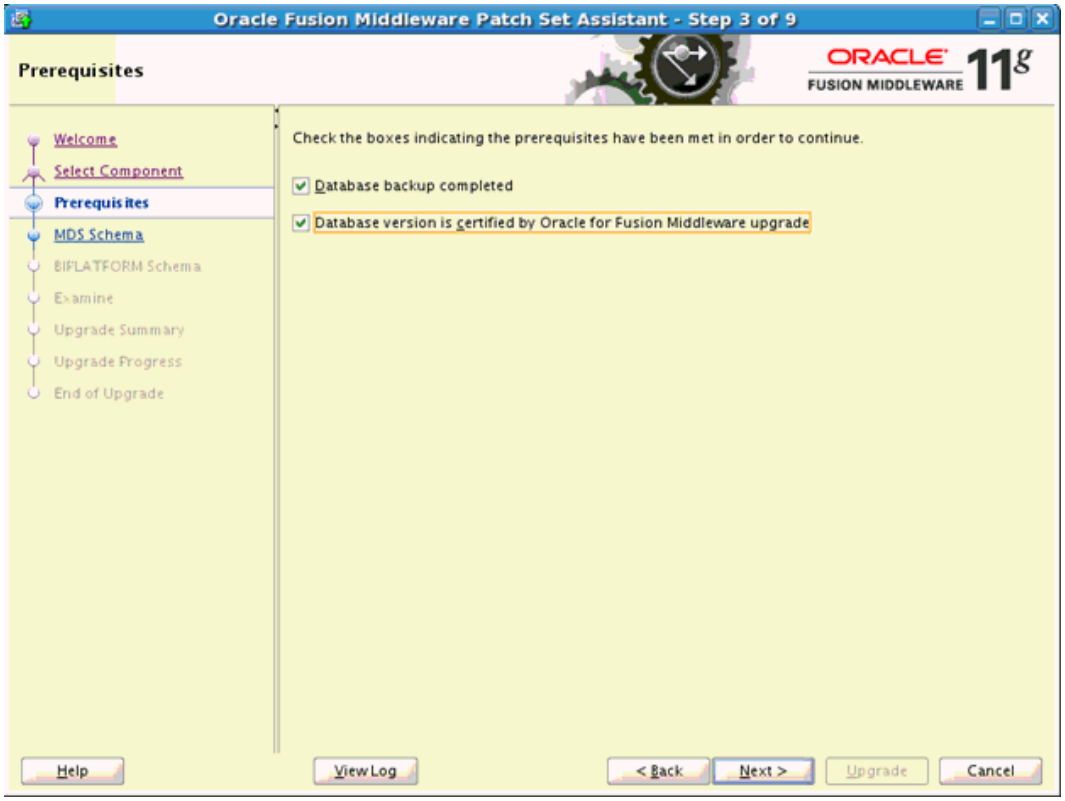
   - MDS
   - BIPLATFORM

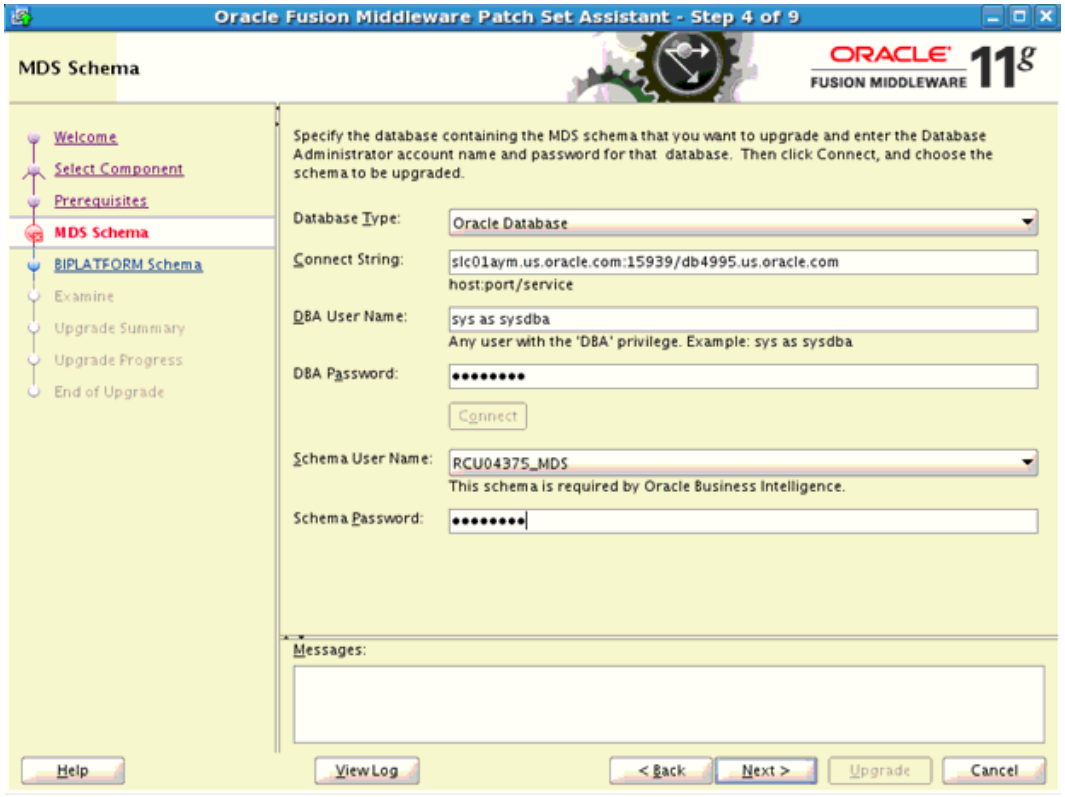
   Switch to `ORACLE_HOME/bin` under `<MiddlewareHome>`

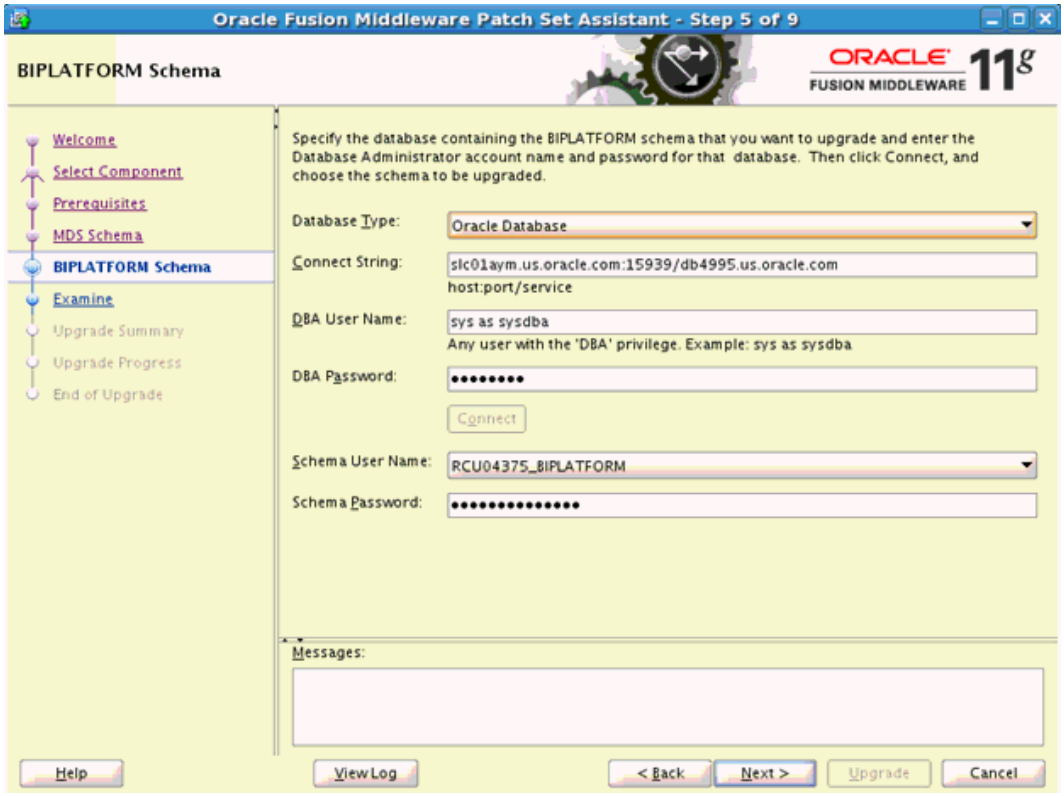
```
[aime1@slc01aym bin]$ pwd
/scratch/ aime1/work/mw6047/Oracle_BI1/bin
[aime1@slc01aym bin]$ ./psa
```

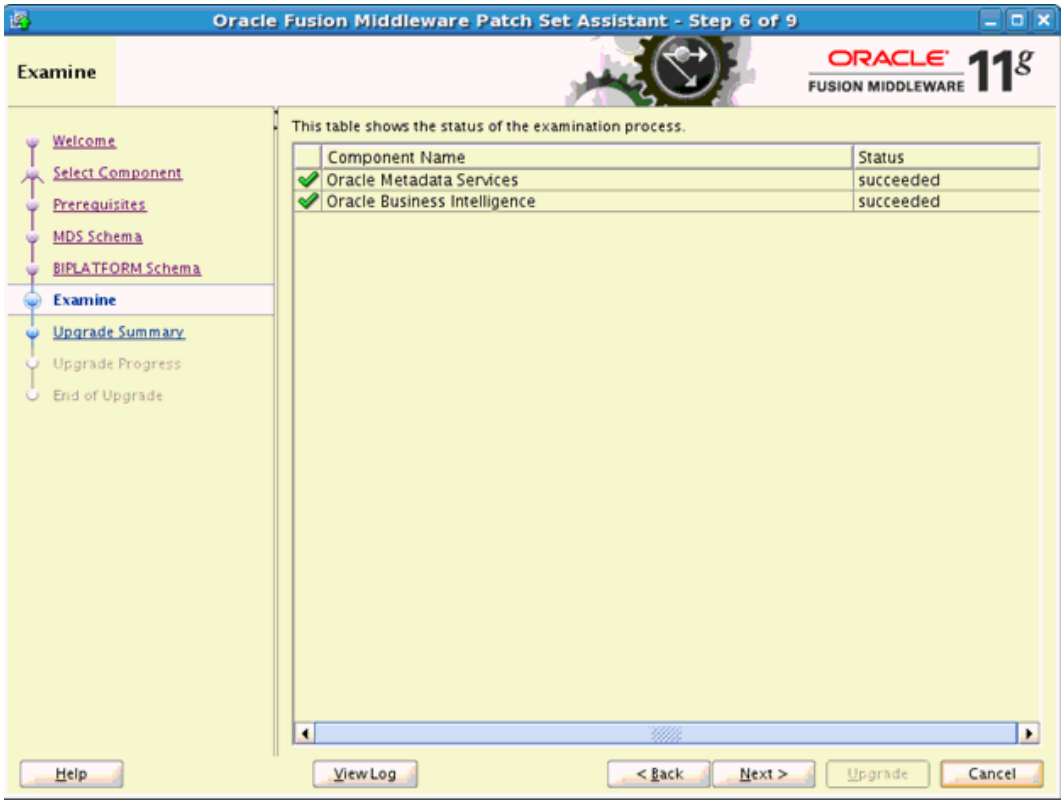

Oracle Fusion Middleware Patch Set Assistant - Step 1 of 7
Welcome
ORACLE FUSION MIDDLEWARE 11g
Welcome
Select Component
Prerequisites
Examine
Upgrade Summary
Upgrade Progress
End of Upgrade
Welcome to the Oracle Fusion Middleware 11g Patch Set Assistant.
This wizard will help you upgrade previous versions of Oracle Fusion Middleware 11g schemas to their latest versions.
Context sensitive help is available from the Help button.
Copyright © 2011, 2015, Oracle and/or its affiliates. All rights reserved.
Help
View Log
< Back
Next >
Upgrade
Cancel

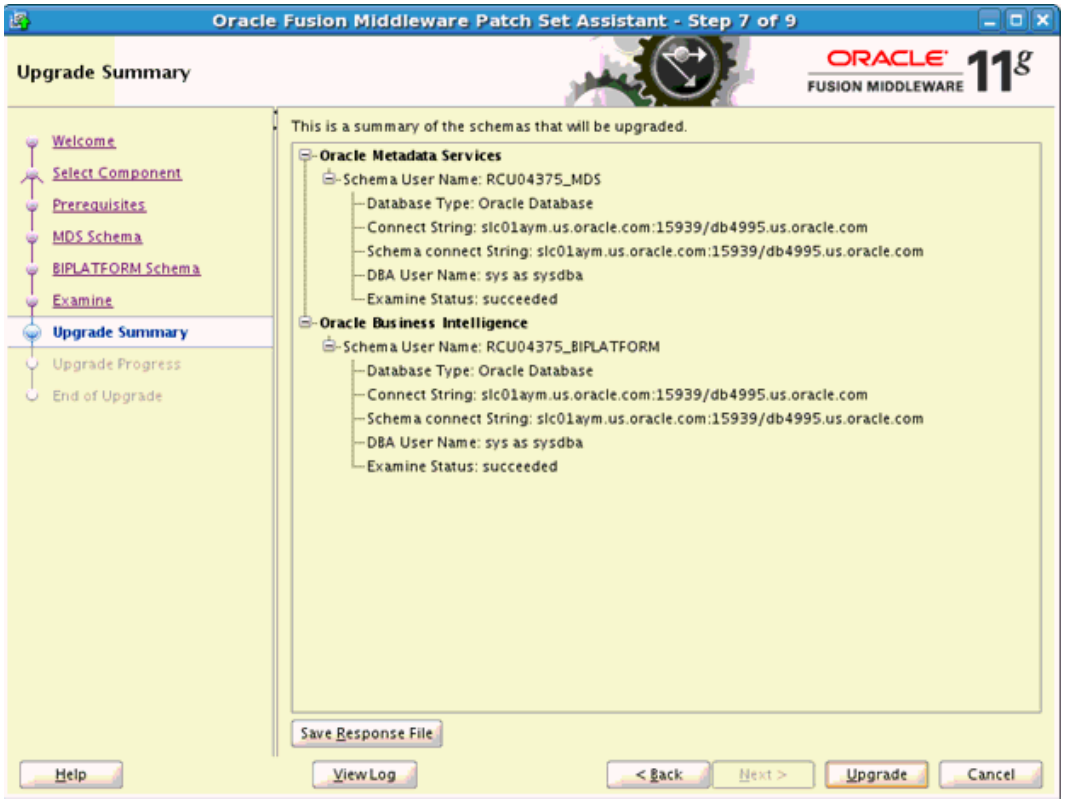

Oracle Fusion Middleware Patch Set Assistant - Step 2 of 9
Select Component
ORACLE FUSION MIDDLEWARE 11g
Welcome
Select Component
Prerequisites
MDS Schema
BIPLATFORM Schema
Examine
Upgrade Summary
Upgrade Progress
End of Upgrade
Select one component to upgrade. Dependencies will be automatically selected.
Available upgrades
ATGPF Lite
BIACM
BIACM_CLOUD
BIACM_IO
OTBI
Oracle Audit Services
Oracle Business Intelligence
BIPLATFORM schema
Oracle Metadata Services
MDS schema
Oracle Data Integrator
Oracle Fusion Functional Setup Manager Lite
Oracle Metadata Services
Oracle Platform Security Services
Help
View Log
< Back
Next >
Upgrade
Cancel

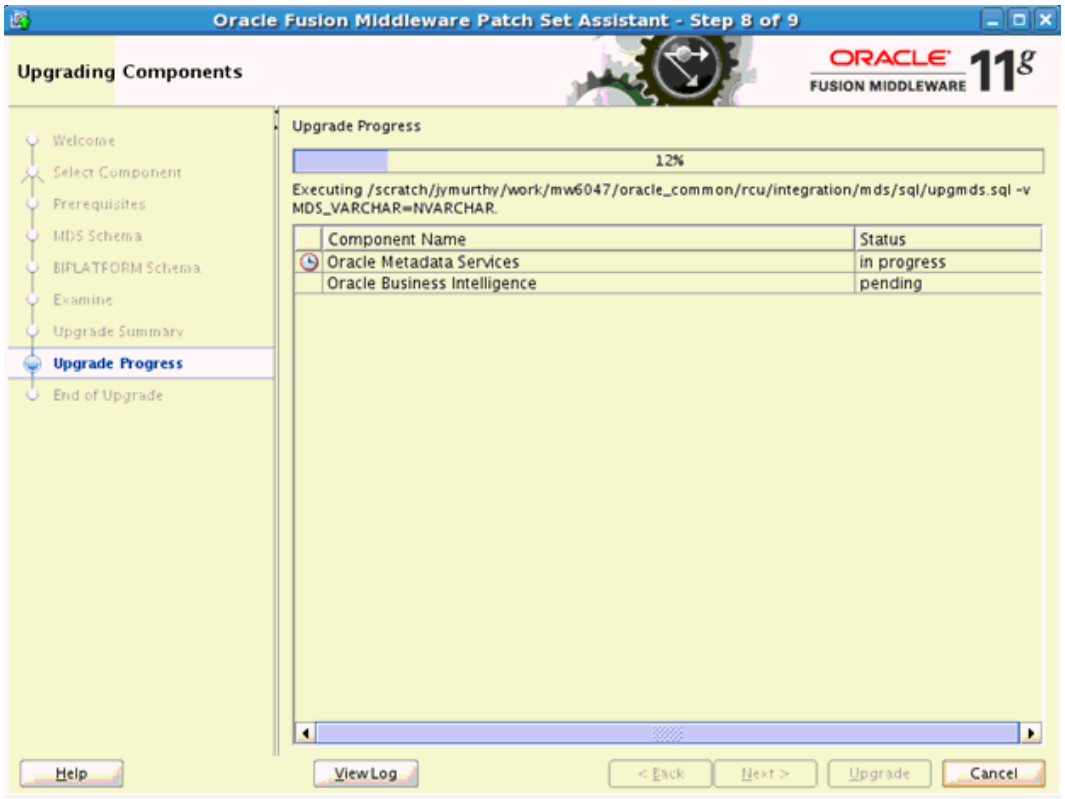

Oracle Fusion Middleware Patch Set Assistant - Step 3 of 9
Prerequisites
ORACLE FUSION MIDDLEWARE 11g
Welcome
Select Component
Prerequisites
MDS Schema
BIPLATFORM Schema
Examine
Upgrade Summary
Upgrade Progress
End of Upgrade
Check the boxes indicating the prerequisites have been met in order to continue.
Database backup completed
Database version is certified by Oracle for Fusion Middleware upgrade
Help
View Log
< Back
Next >
Upgrade
Cancel

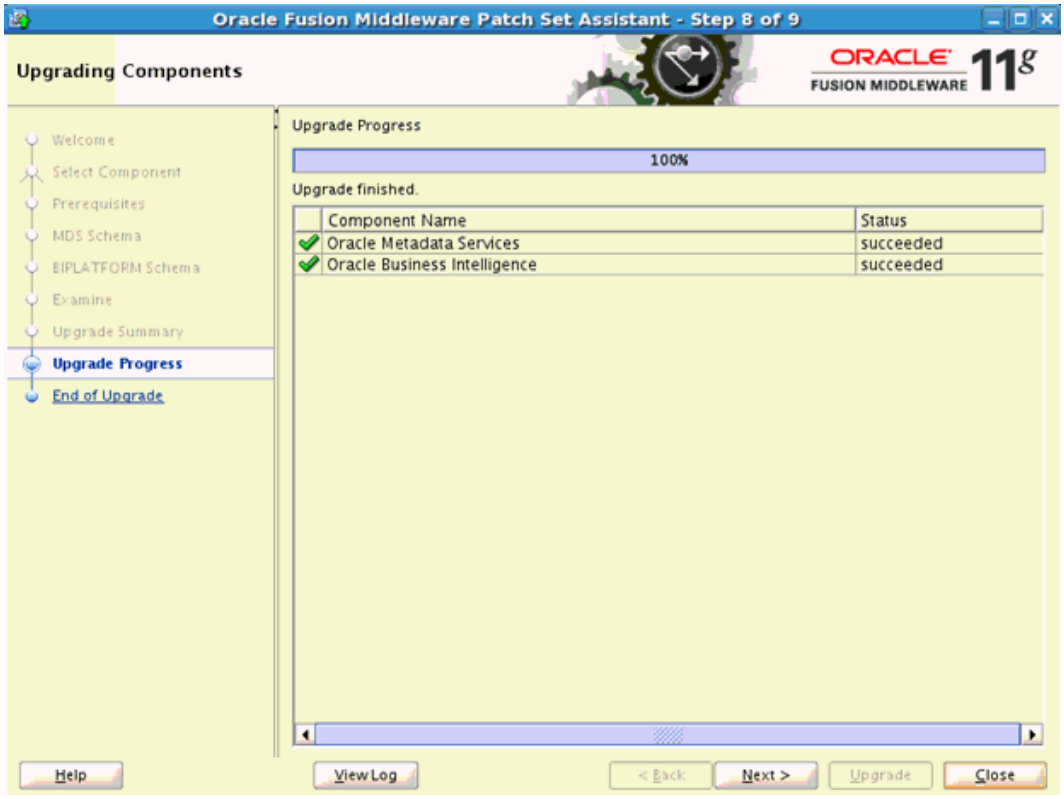

Oracle Fusion Middleware Patch Set Assistant - Step 4 of 9
MDS Schema
ORACLE FUSION MIDDLEWARE 11g
Welcome
Select Component
Prerequisites
MDS Schema
BIPLATFORM Schema
Examine
Upgrade Summary
Upgrade Progress
End of Upgrade
Specify the database containing the MDS schema that you want to upgrade and enter the Database Administrator account name and password for that database. Then click Connect, and choose the schema to be upgraded.
Database Type:
Oracle Database
Connect String:
slc01aym.us.oracle.com:15939/db4995.us.oracle.com
host:port/service
DBA User Name:
sys as sysdba
Any user with the 'DBA' privilege. Example: sys as sysdba
DBA Password:
Connect
Schema User Name:
RCU04375_MDS
This schema is required by Oracle Business Intelligence.
Schema Password:
Messages:
Help
View Log
< Back
Next >
Upgrade
Cancel

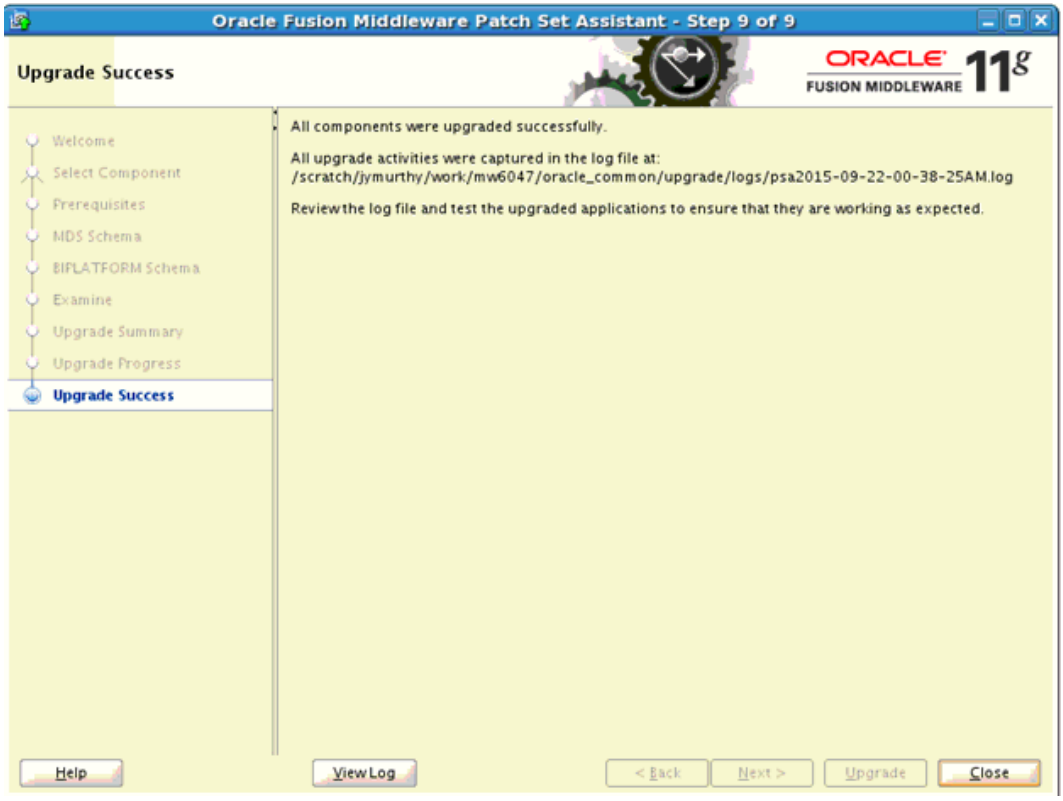

Oracle Fusion Middleware Patch Set Assistant - Step 5 of 9
BIPLATFORM Schema
ORACLE FUSION MIDDLEWARE 11g
Welcome
Select Component
Prerequisites
MDS Schema
BIPLATFORM Schema
Examine
Upgrade Summary
Upgrade Progress
End of Upgrade
Specify the database containing the BIPLATFORM schema that you want to upgrade and enter the Database Administrator account name and password for that database. Then click Connect, and choose the schema to be upgraded.
Database Type: Oracle Database
Connect String: slc01aym.us.oracle.com:15939/db4995.us.oracle.com
host:port/service
DBA User Name: sys as sysdba
Any user with the 'DBA' privilege. Example: sys as sysdba
DBA Password:
Connect
Schema User Name: RCU04375_BIPLATFORM
Schema Password:
Messages:
Help
View Log
< Back
Next >
Upgrade
Cancel


Oracle Fusion Middleware Patch Set Assistant - Step 6 of 9
Examine
ORACLE FUSION MIDDLEWARE 11g
Welcome
Select Component
Prerequisites
MDS Schema
BIPLATFORM Schema
Examine
Upgrade Summary
Upgrade Progress
End of Upgrade
This table shows the status of the examination process.
Component Name
Status
Oracle Metadata Services
succeeded
Oracle Business Intelligence
succeeded
Help
View Log
< Back
Next >
Upgrade
Cancel


Oracle Fusion Middleware Patch Set Assistant - Step 7 of 9
Upgrade Summary
ORACLE FUSION MIDDLEWARE 11g
Welcome
Select Component
Prerequisites
MDS Schema
BIPLATFORM Schema
Examine
Upgrade Summary
Upgrade Progress
End of Upgrade
This is a summary of the schemas that will be upgraded.
Oracle Metadata Services
Schema User Name: RCU04375_MDS
Database Type: Oracle Database
Connect String: slc01aym.us.oracle.com:15939/db4995.us.oracle.com
Schema connect String: slc01aym.us.oracle.com:15939/db4995.us.oracle.com
DBA User Name: sys as sysdba
Examine Status: succeeded
Oracle Business Intelligence
Schema User Name: RCU04375_BIPLATFORM
Database Type: Oracle Database
Connect String: slc01aym.us.oracle.com:15939/db4995.us.oracle.com
Schema connect String: slc01aym.us.oracle.com:15939/db4995.us.oracle.com
DBA User Name: sys as sysdba
Examine Status: succeeded
Save Response File
Help
View Log
< Back
Next >
Upgrade
Cancel


Oracle Fusion Middleware Patch Set Assistant - Step 8 of 9
Upgrading Components
ORACLE FUSION MIDDLEWARE 11g
Welcome
Select Component
Prerequisites
MDS Schema
BIPLATFORM Schema
Examine
Upgrade Summary
Upgrade Progress
End of Upgrade
Upgrade Progress
12%
Executing /scratch/jymurthy/work/mw6047/oracle_common/rcu/integration/mds/sql/upgmds.sql -v MDS_VARCHAR=NVARCHAR.
Component Name
Status
Oracle Metadata Services
in progress
Oracle Business Intelligence
pending
Help
View Log
< Back
Next >
Upgrade
Cancel





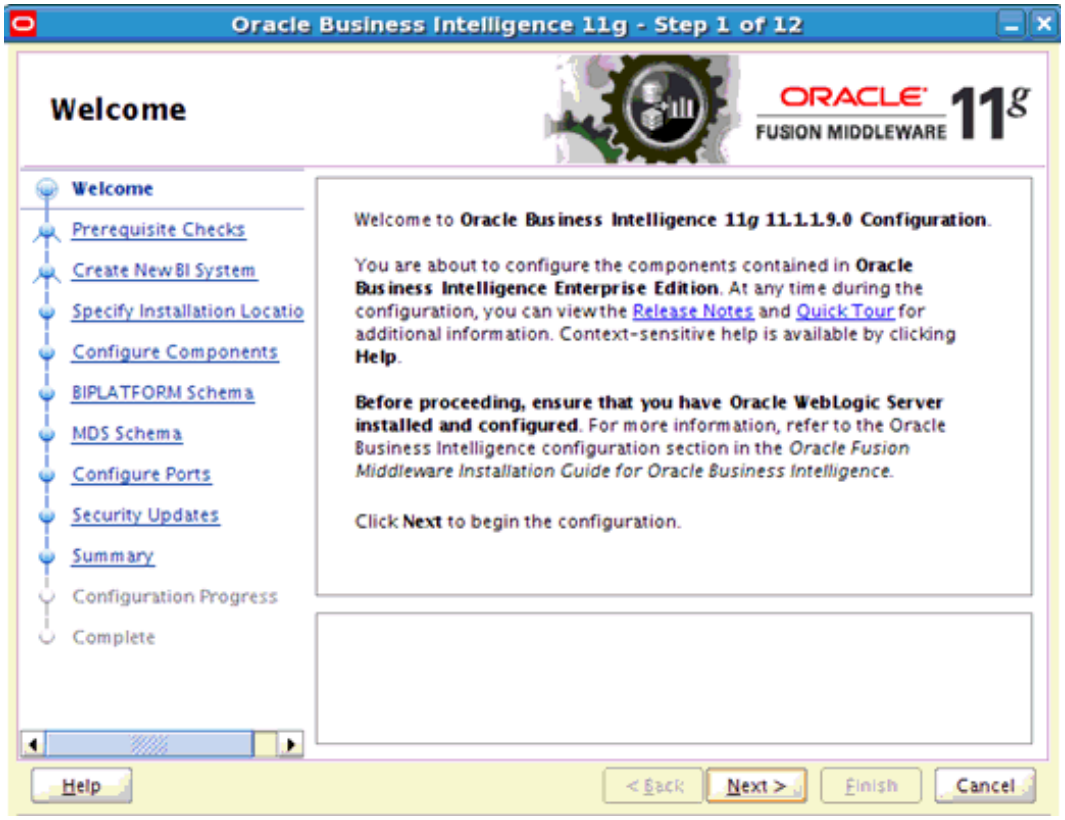
7. Run the Configuration Assistant to update the BI domain as follows:

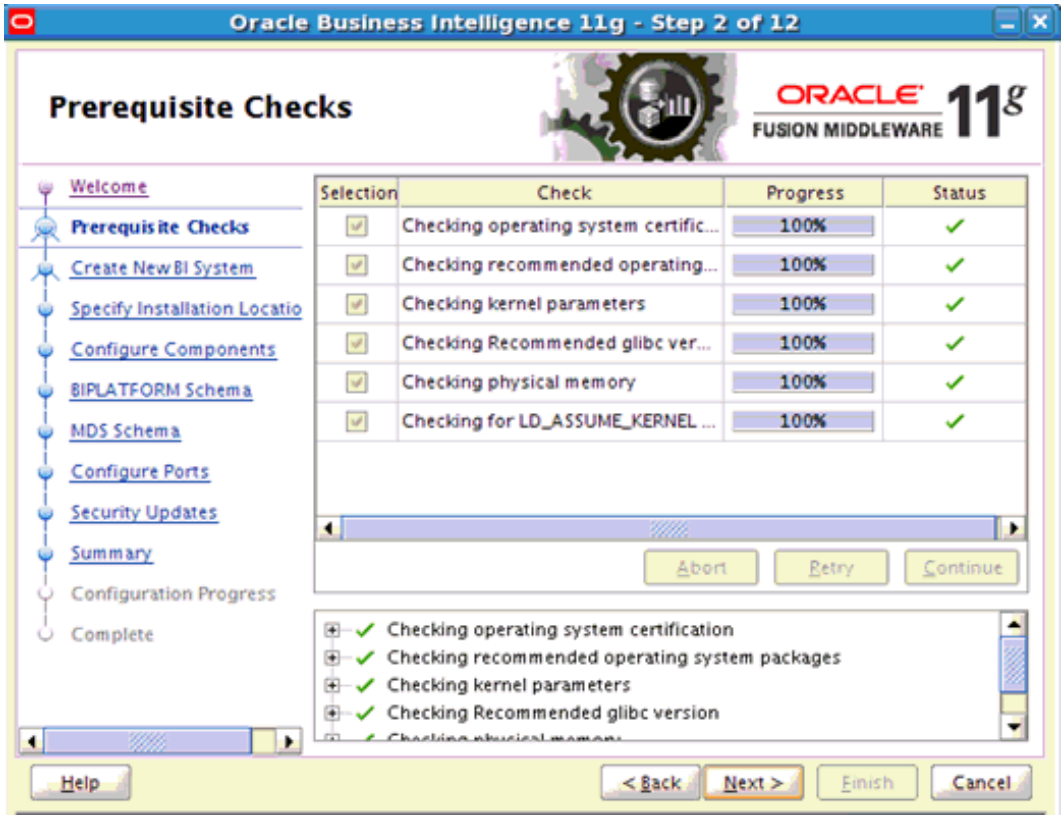
   - Start the Node Manager and Administration Server.

- At the command line, enter the following:

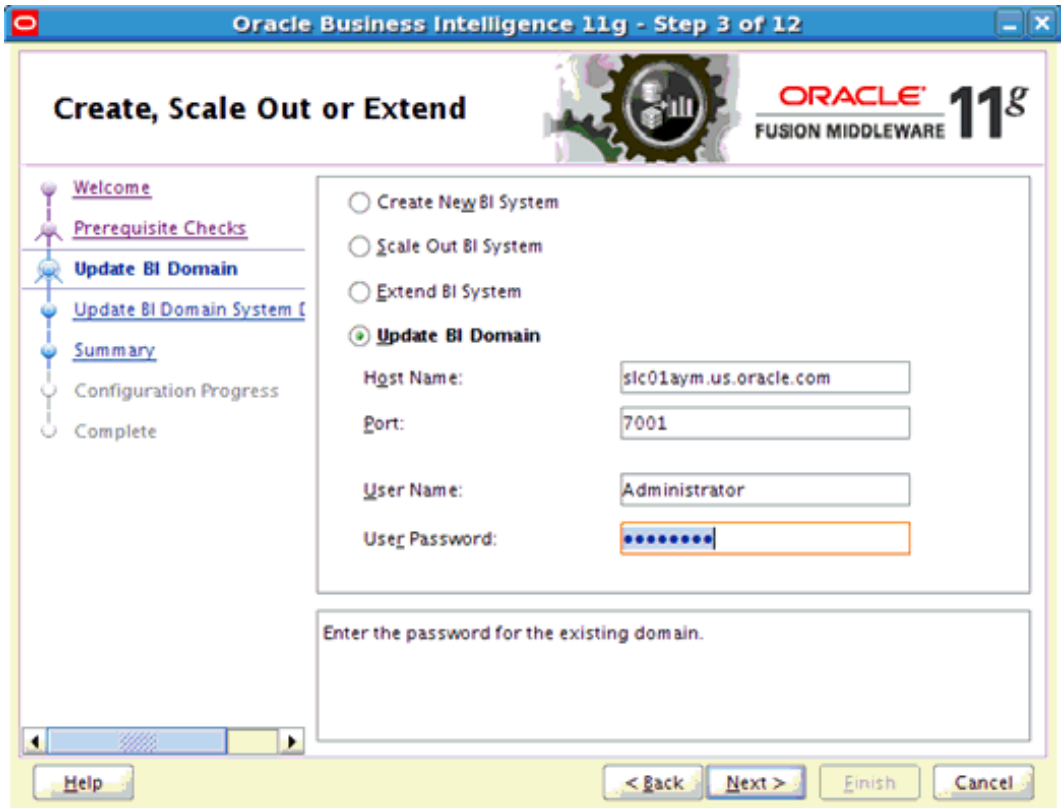
  ```
  On UNIX:
  ORACLE_HOME/bin/config.sh

  On Windows:
  ORACLE_HOME\bin\config.bat
  ```

8. On the Welcome and Prerequisite Checks screens, click **Next**.



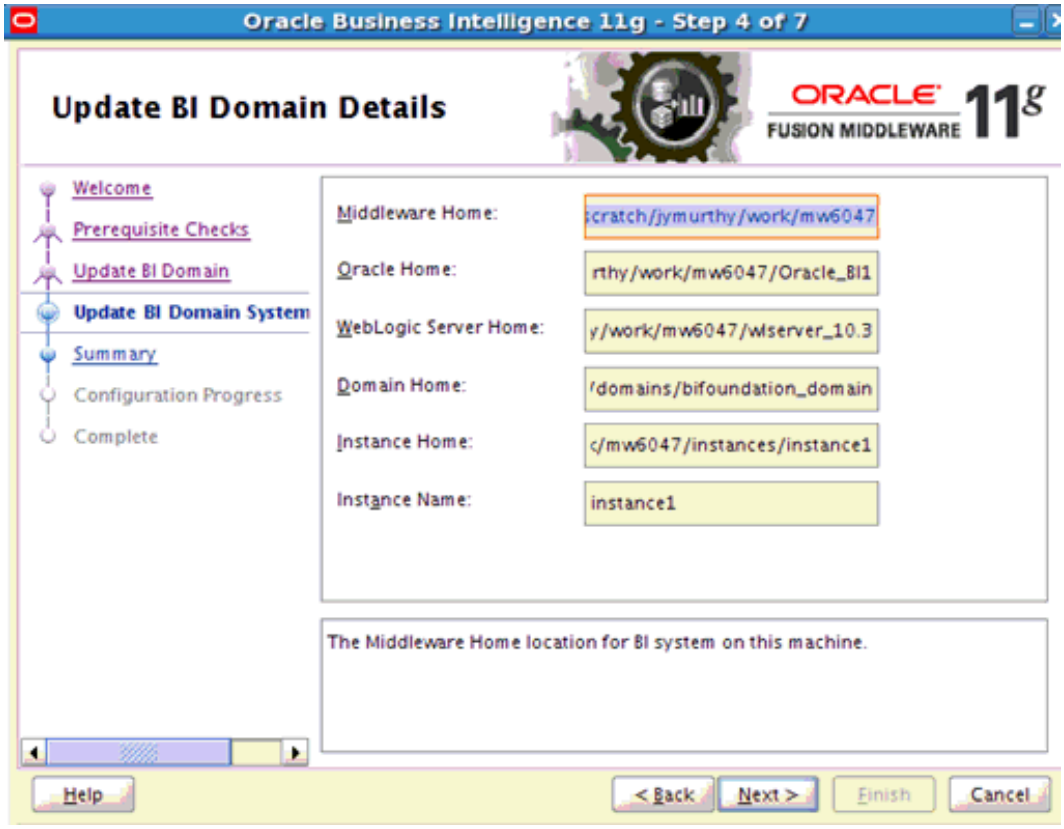


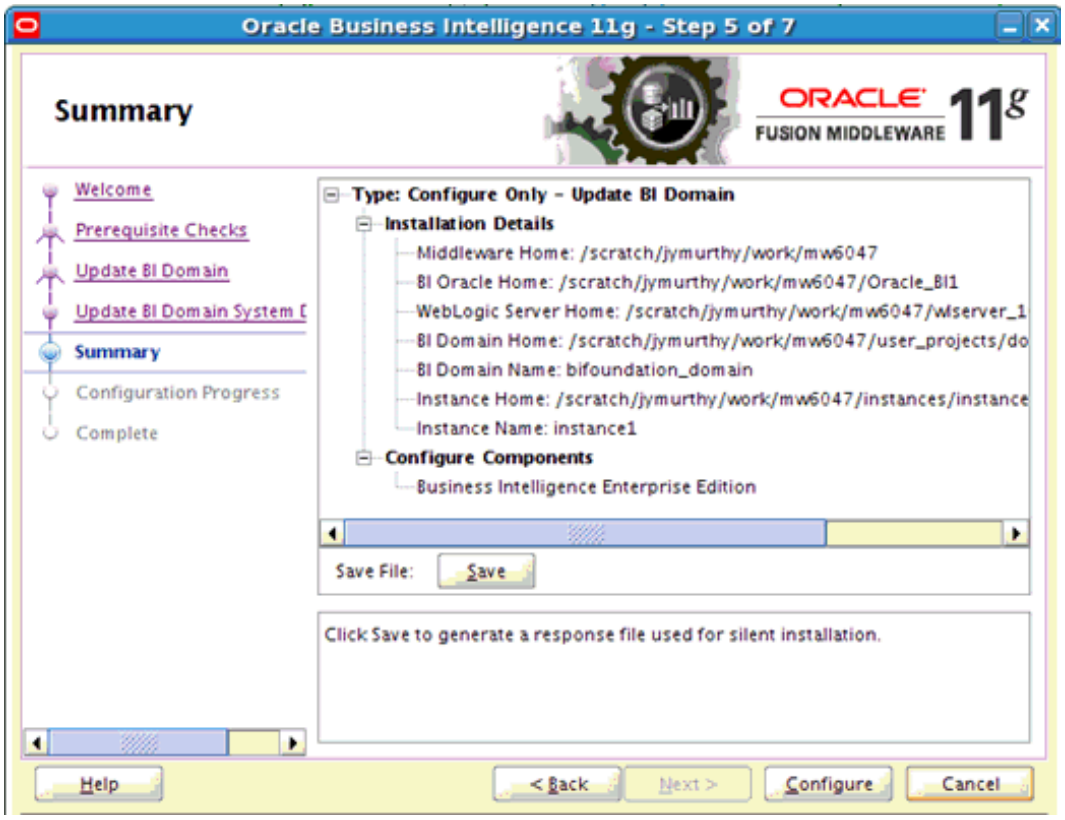
9. On the Create, Scale Out, or Extend screen, select **Update BI Domain**.



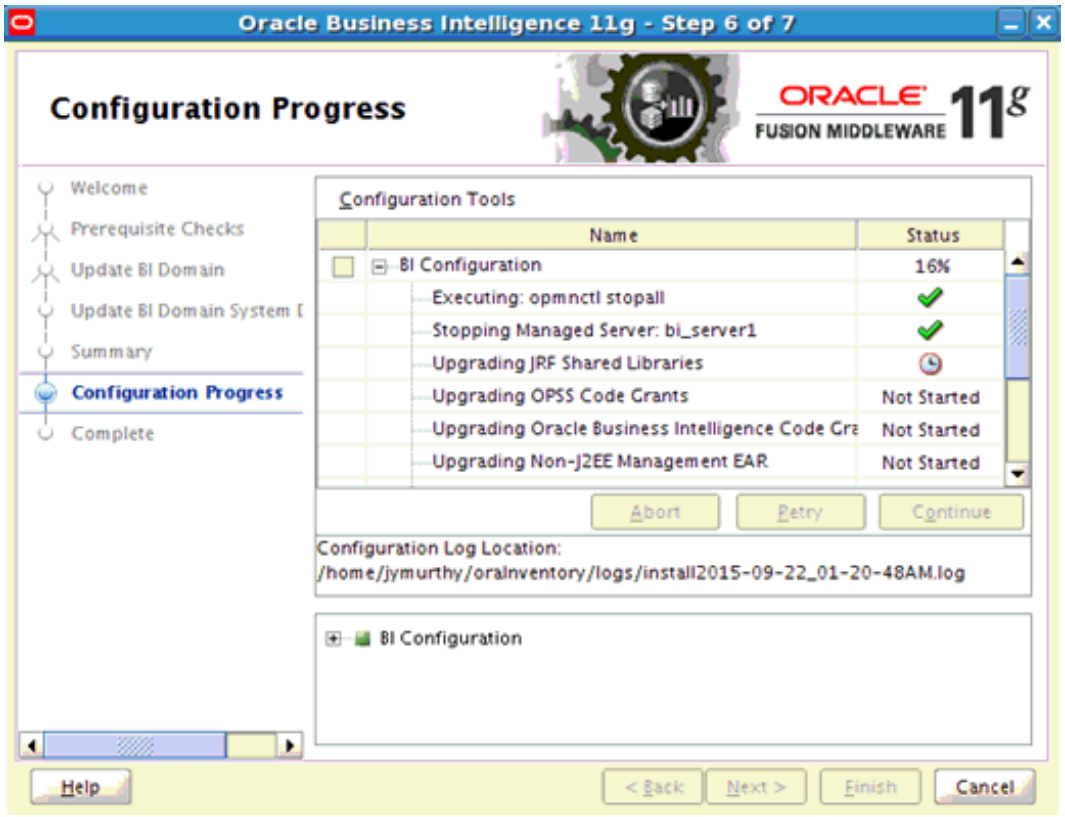
10. Specify the host name, port number, user name, and password for the Administration Server on the system to update and click **Next**.

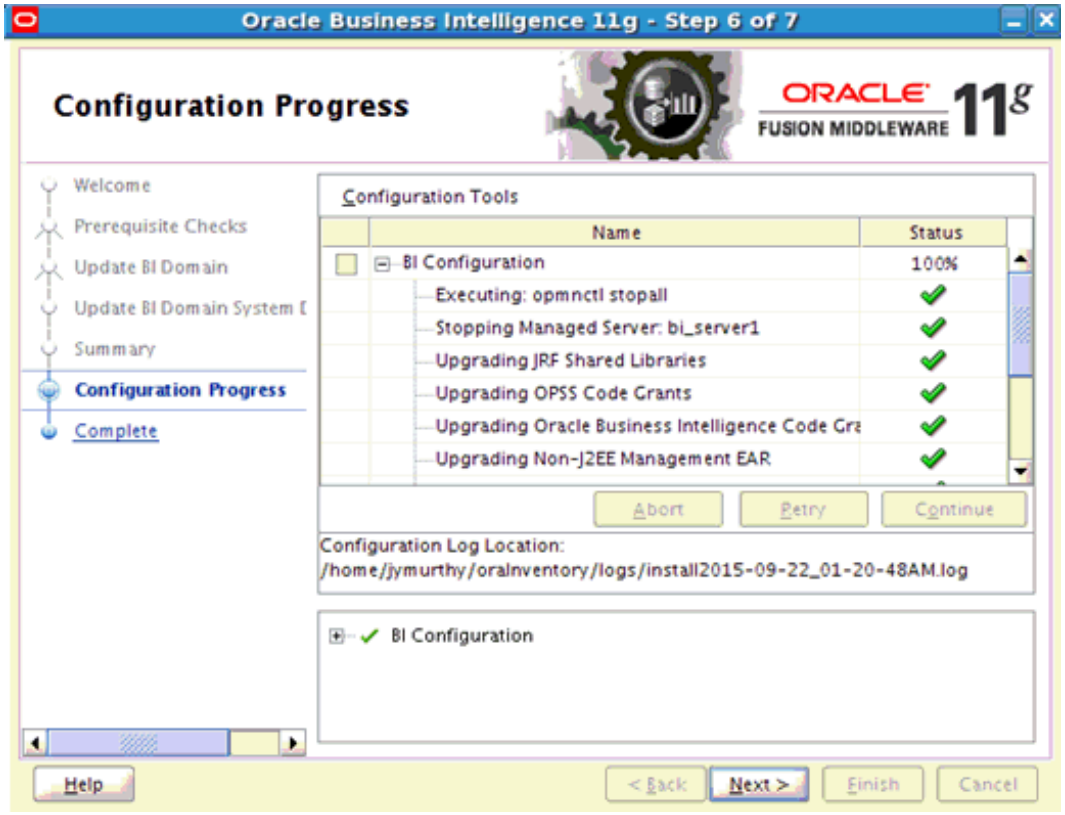
11. On the Update BI Domain Details screen, verify that appropriate directories are specified for each of the Home fields and click **Next**.



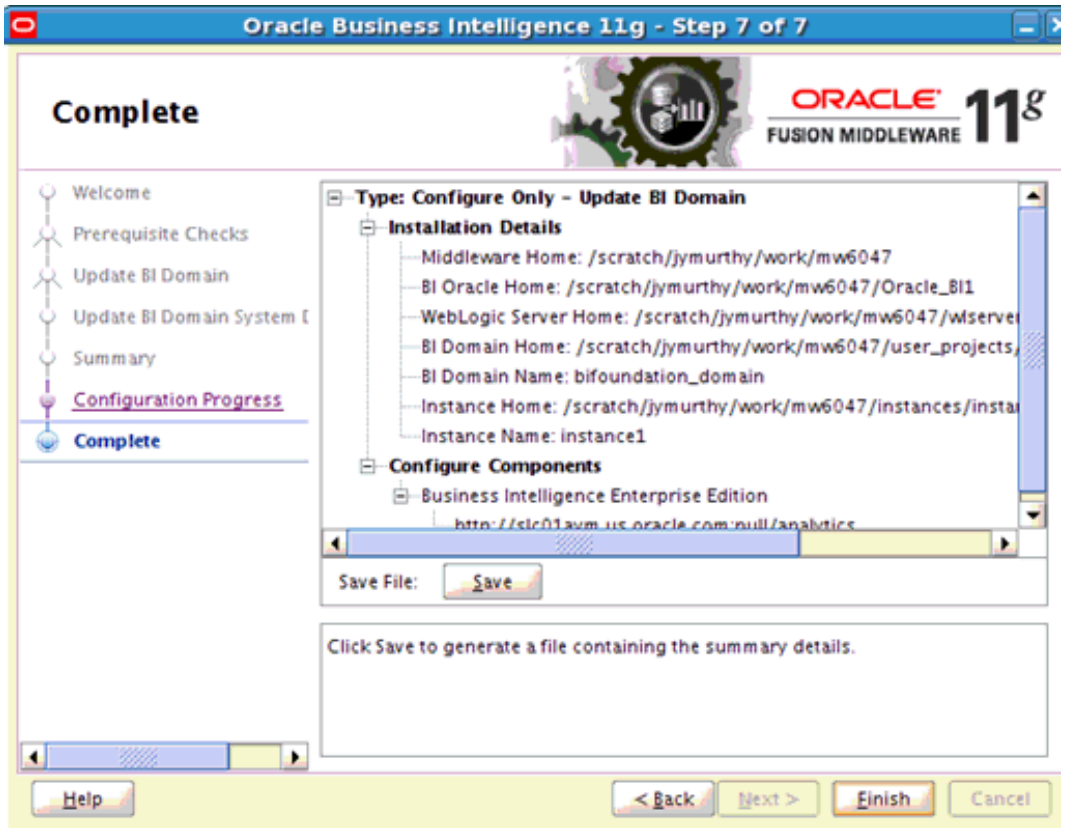


The progress of the update process is shown on the Configuration Process screen.





12. When the update process is complete, click **Finish**.



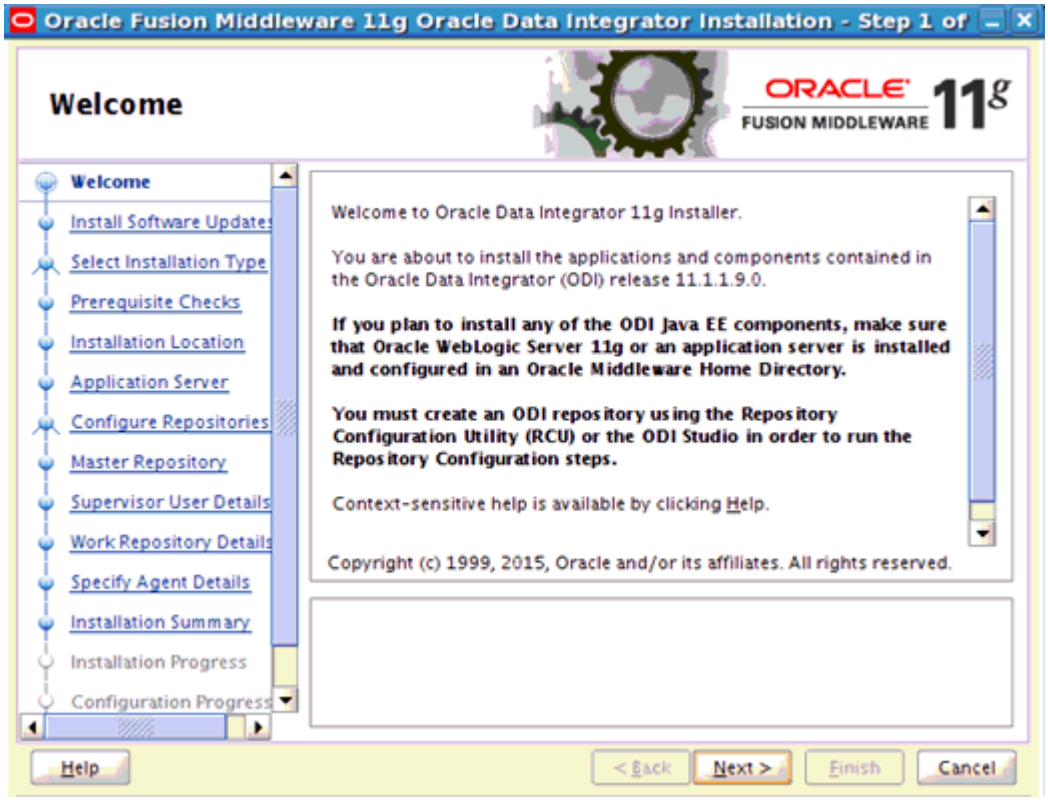
Upgrading ODI From 11.1.1.7.0 To 11.1.1.9.0

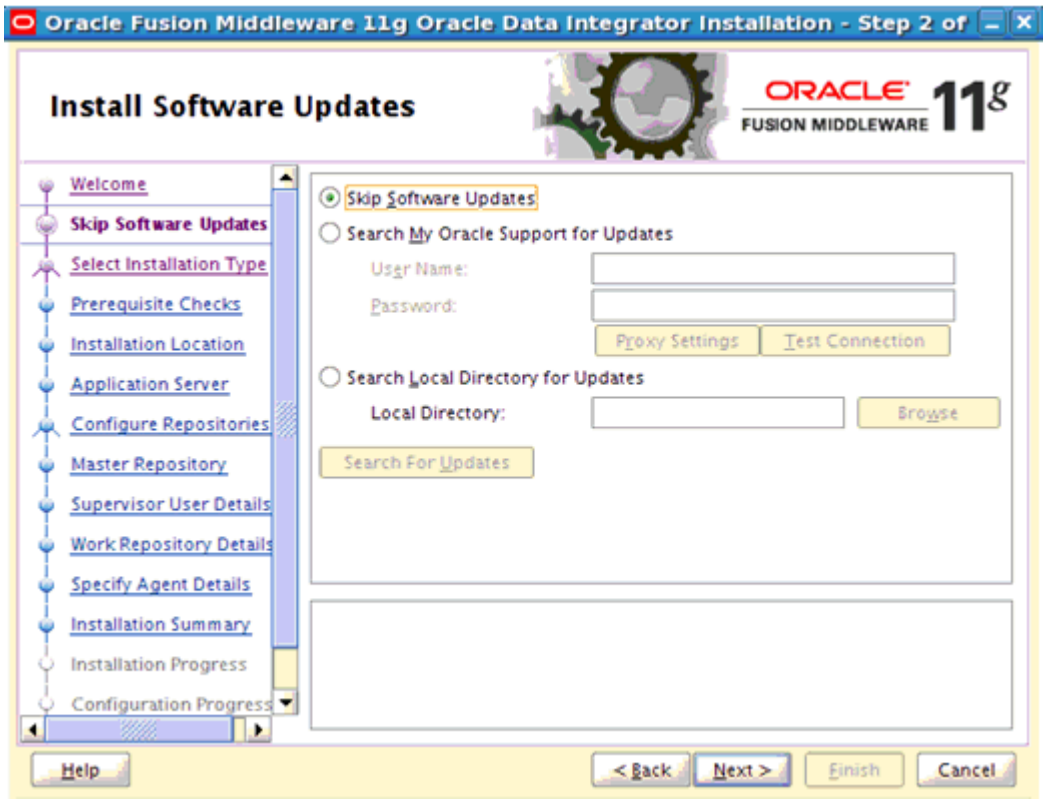
Use these instructions to upgrade ODI from 11.1.1.7.0 to 11.1.1.9.0.

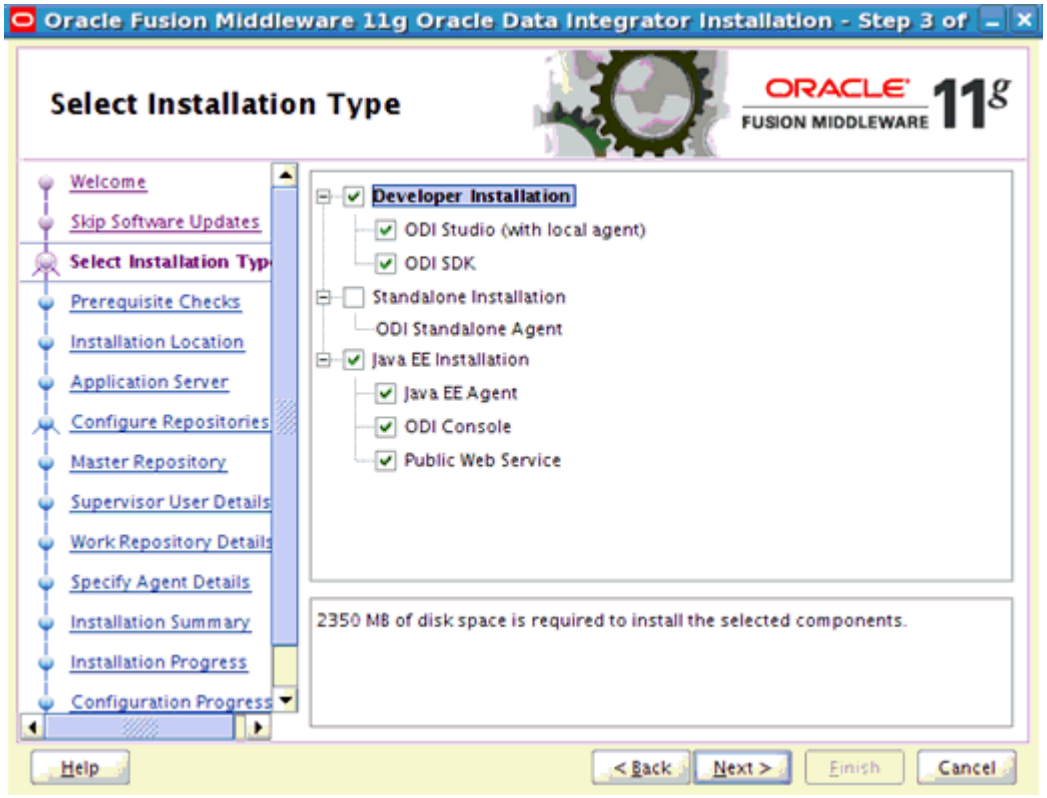
To upgrade ODI from 11.1.1.7.0 to 11.1.1.9.0:

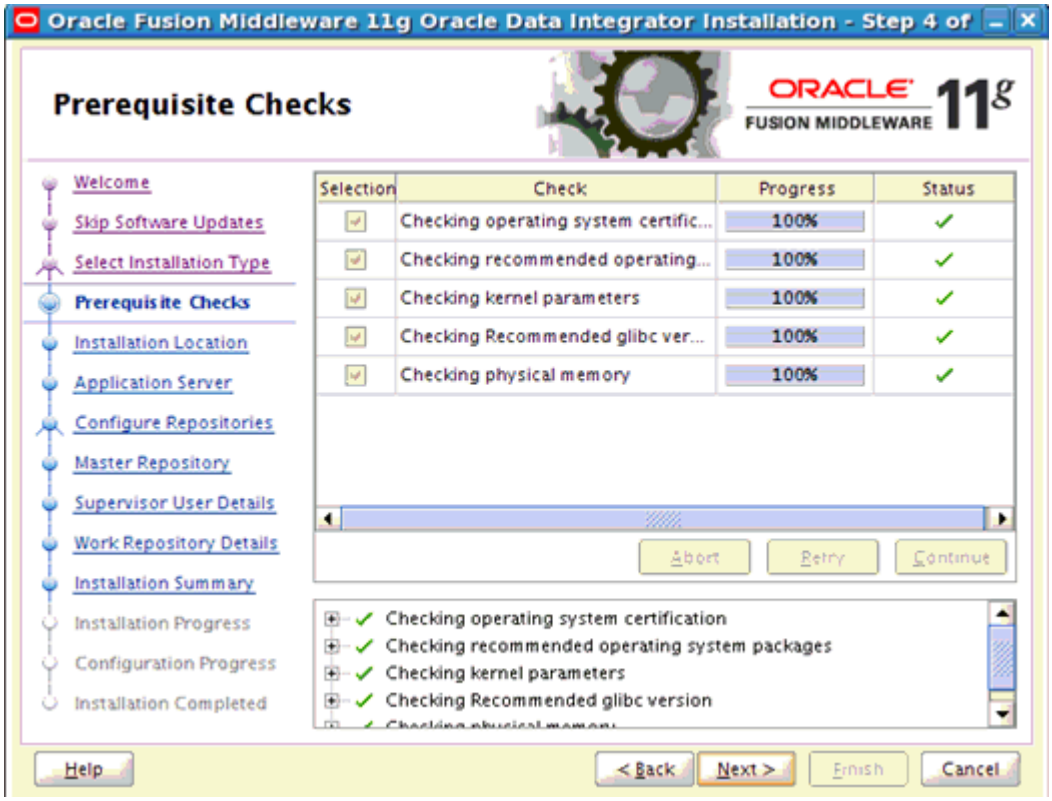
1. Perform the following general pre-patch tasks:
   - Stop all WebLogic Servers, Node Manager, OPMN, and OPMN-managed system components that are part of all Oracle BI domains that use the Middleware Home that you must patch.
   - On Windows systems, stop the Oracle WebLogic NodeManager (name) component.
2. Download the appropriate ODI product installers.
3. Switch to the directory where the ODI software files are unzipped.
4. Switch to `Disk1` directory under that directory and run the installer as follows:

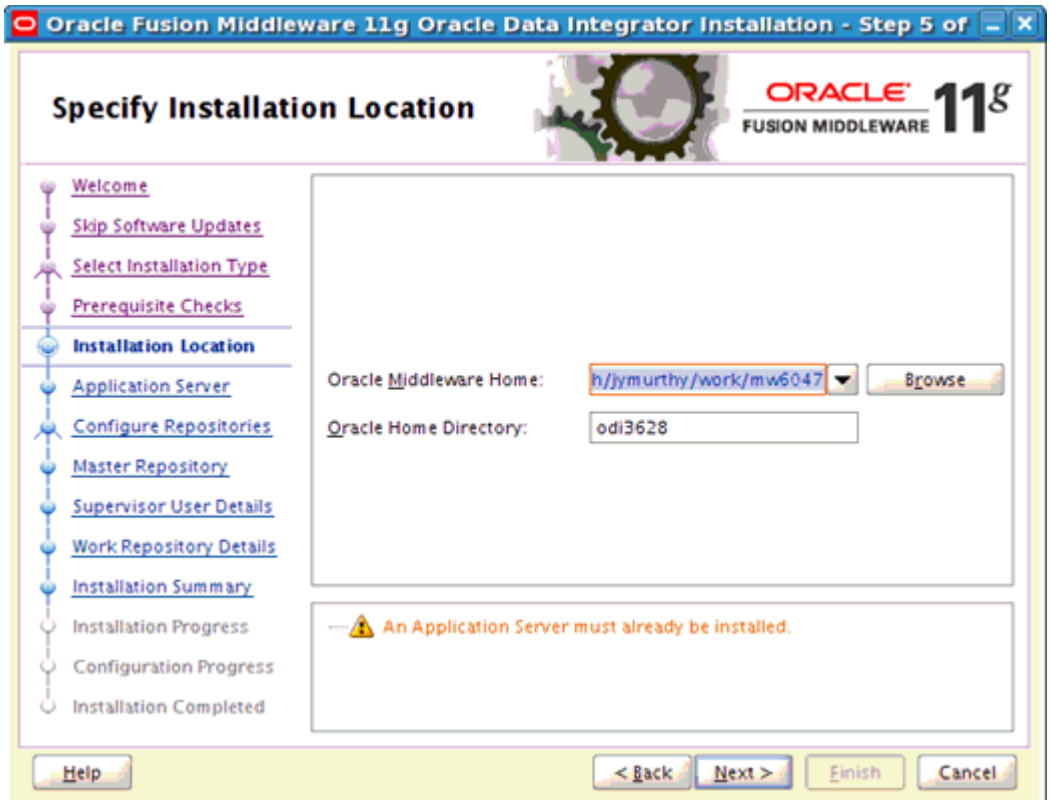
```
[aime1@slc01aym Disk1]$ ./runInstaller -jreLoc $ORACLE_HOME/jdk -invPtrLoc
$ORACLE_HOME/oraInst.loc
```



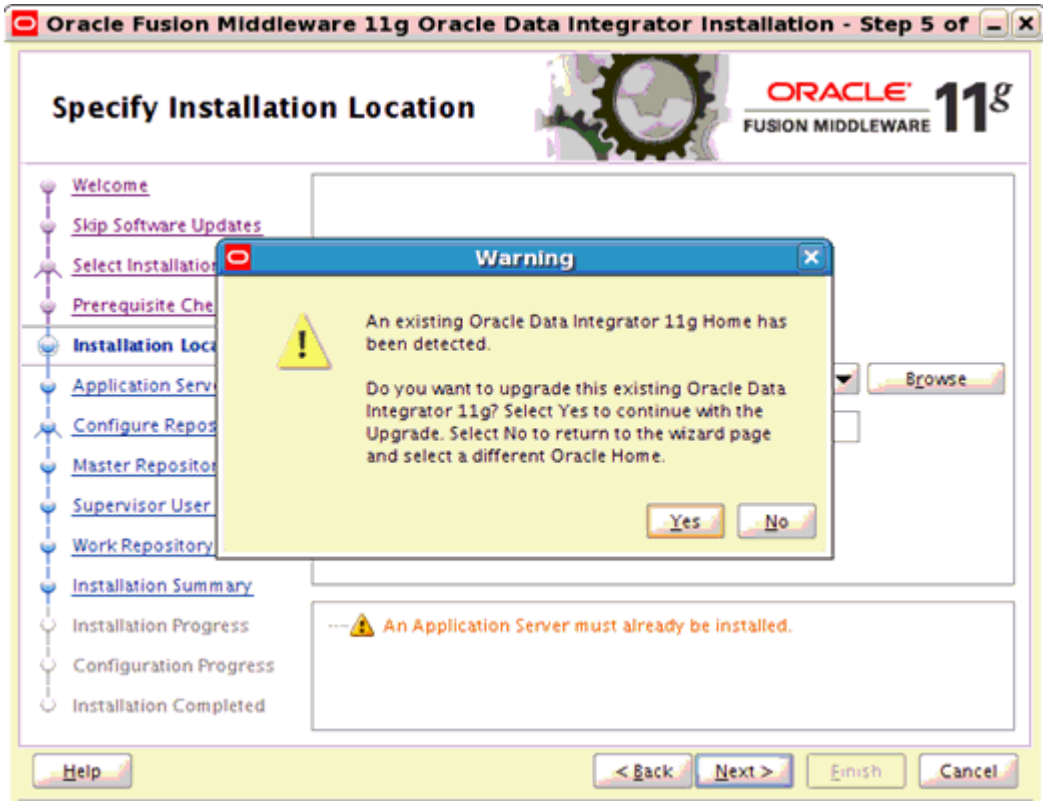

Oracle Fusion Middleware 11g Oracle Data Integrator Installation - Step 2 of
Install Software Updates
ORACLE FUSION MIDDLEWARE 11g
Welcome
Skip Software Updates
Select Installation Type
Prerequisite Checks
Installation Location
Application Server
Configure Repositories
Master Repository
Supervisor User Details
Work Repository Details
Specify Agent Details
Installation Summary
Installation Progress
Configuration Progress
Skip Software Updates
Search My Oracle Support for Updates
User Name:
Password:
Proxy Settings
Test Connection
Search Local Directory for Updates
Local Directory:
Browse
Search For Updates
Help
< Back
Next >
Finish
Cancel

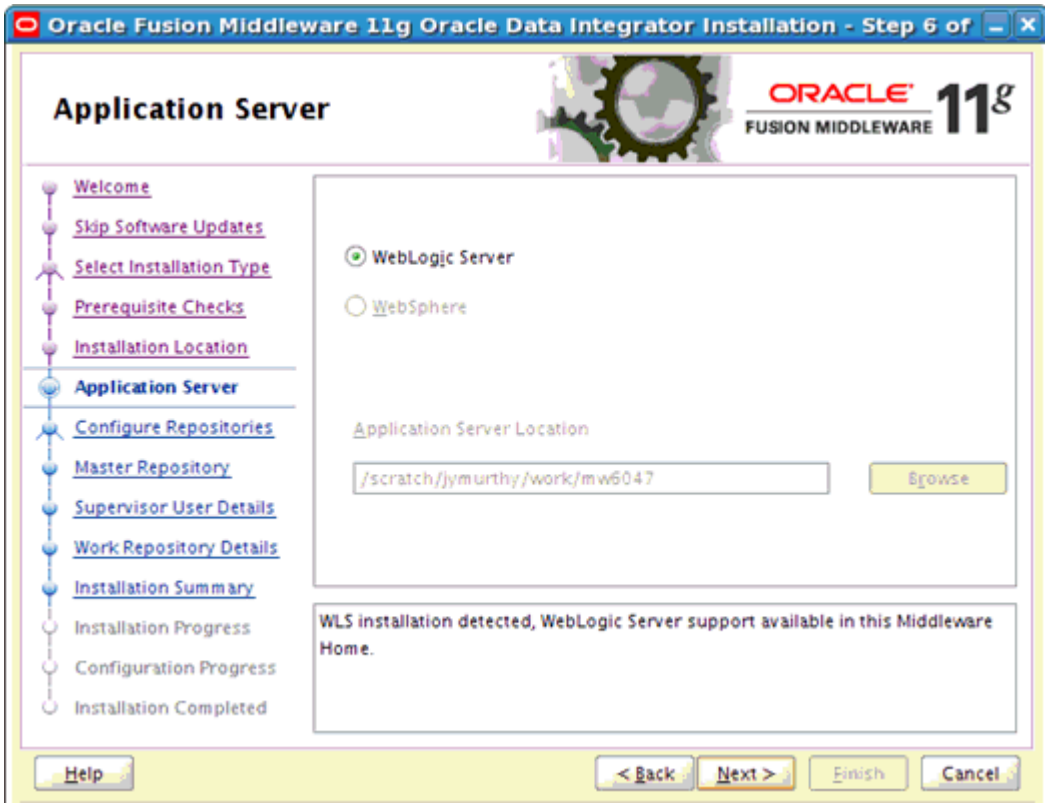

Oracle Fusion Middleware 11g Oracle Data Integrator Installation - Step 3 of
Select Installation Type
ORACLE FUSION MIDDLEWARE 11g
Welcome
Skip Software Updates
Select Installation Type
Prerequisite Checks
Installation Location
Application Server
Configure Repositories
Master Repository
Supervisor User Details
Work Repository Details
Specify Agent Details
Installation Summary
Installation Progress
Configuration Progress
Developer Installation
ODI Studio (with local agent)
ODI SDK
Standalone Installation
ODI Standalone Agent
Java EE Installation
Java EE Agent
ODI Console
Public Web Service
2350 MB of disk space is required to install the selected components.
Help
< Back
Next >
Finish
Cancel



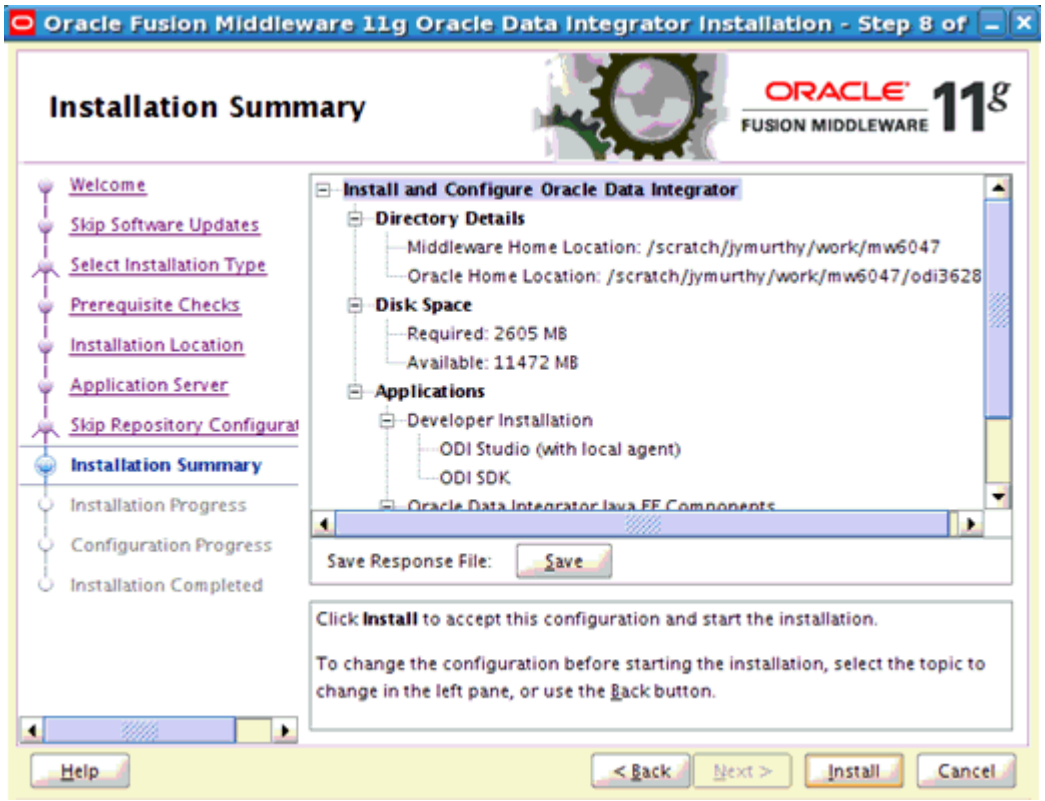


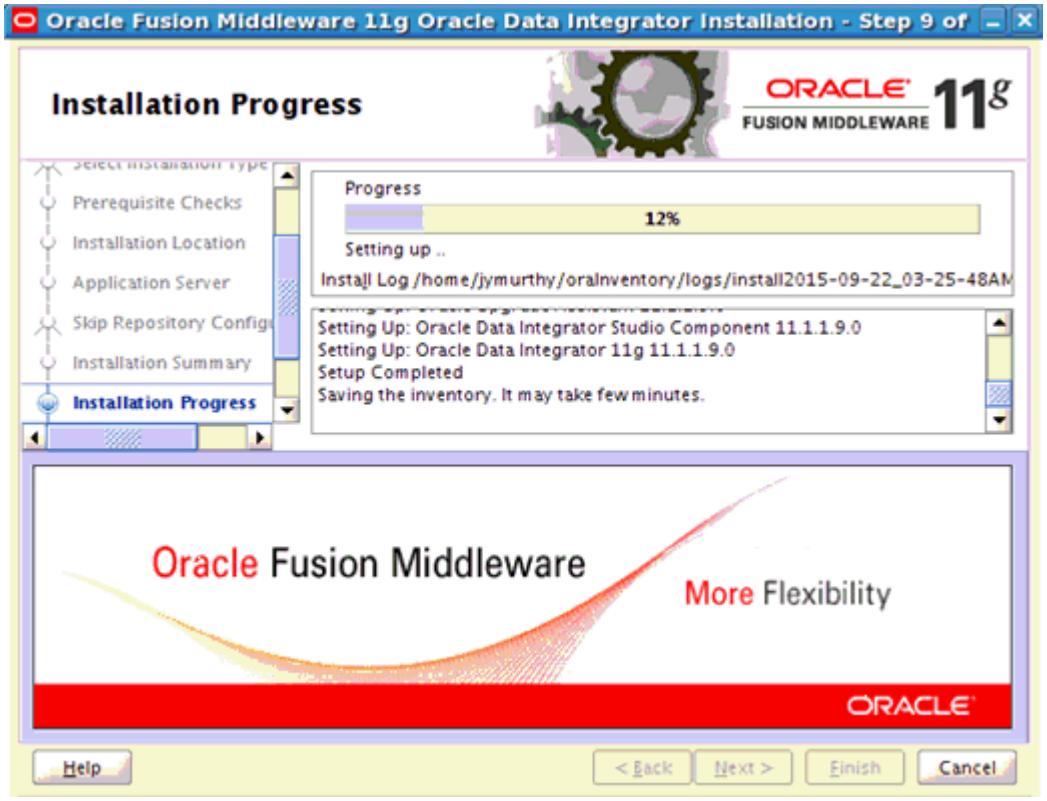
5. Click **Yes** and then **Next**.

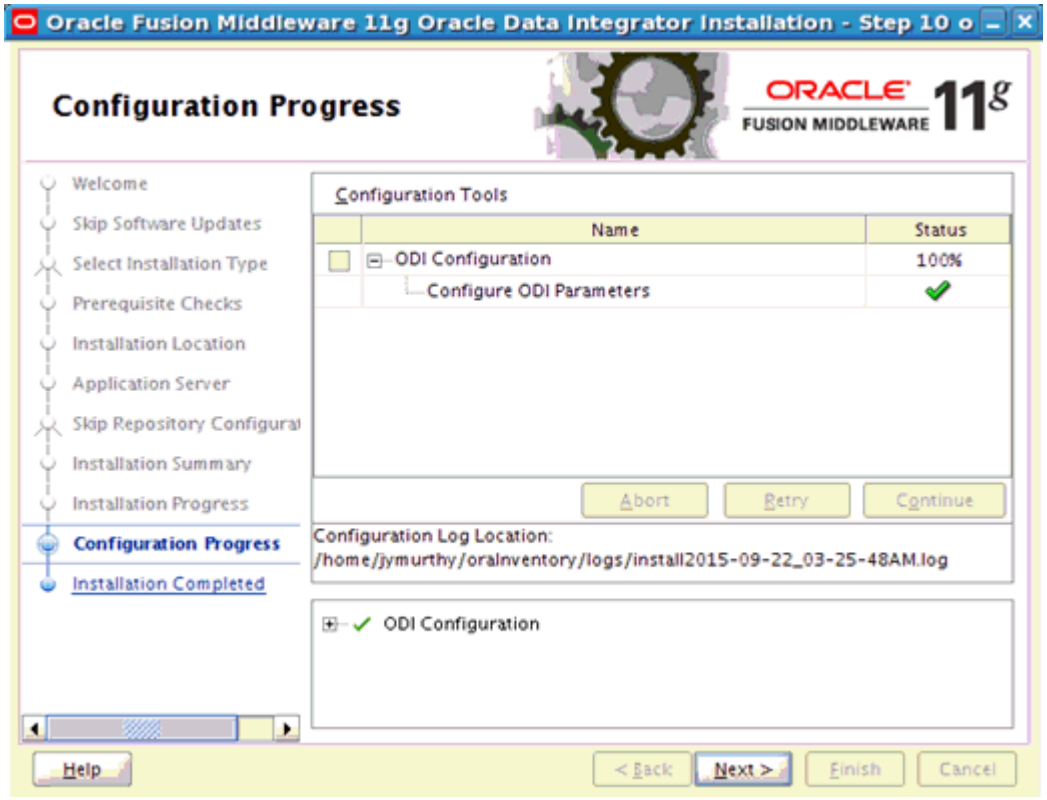

Oracle Fusion Middleware 11g Oracle Data Integrator Installation - Step 5 of
Specify Installation Location
ORACLE FUSION MIDDLEWARE 11g
Welcome
Skip Software Updates
Select Installation
Prerequisite Che
Installation Loca
Application Serv
Configure Repos
Master Repositor
Supervisor User
Work Repository
Installation Summary
Installation Progress
Configuration Progress
Installation Completed
Warning
An existing Oracle Data Integrator 11g Home has been detected.
Do you want to upgrade this existing Oracle Data Integrator 11g? Select Yes to continue with the Upgrade. Select No to return to the wizard page and select a different Oracle Home.
Yes
No
Browse
An Application Server must already be installed.
Help
< Back
Next >
Finish
Cancel

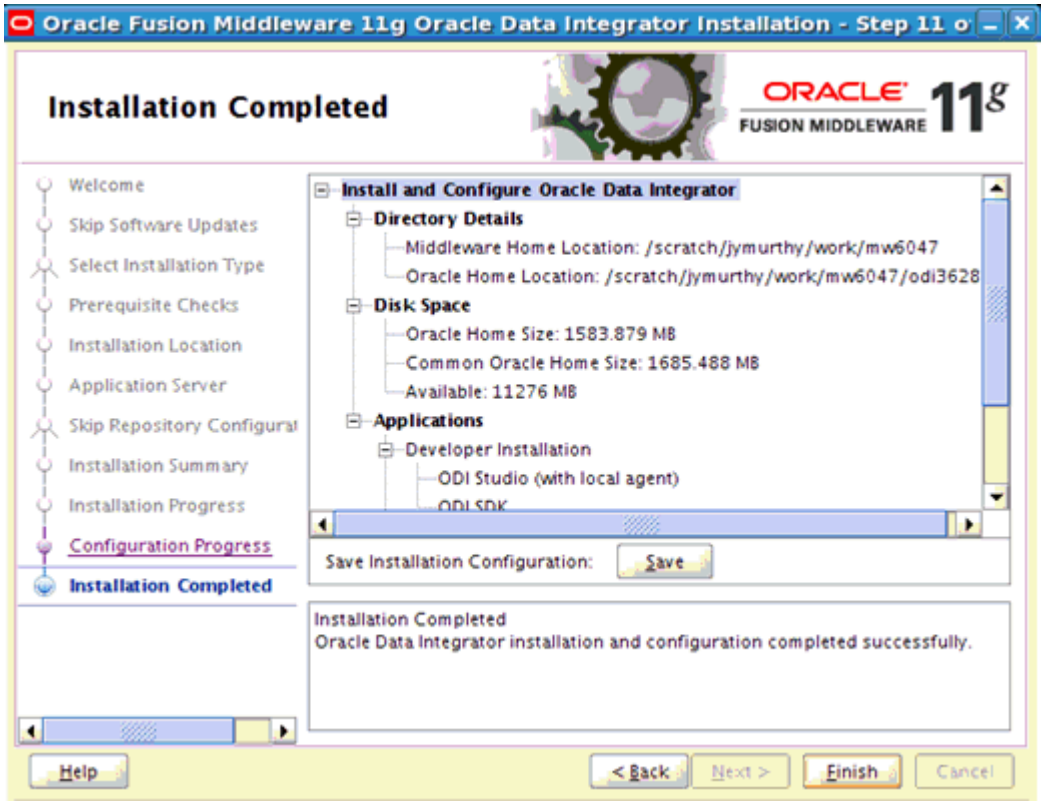

Oracle Fusion Middleware 11g Oracle Data Integrator Installation - Step 6 of
Application Server
ORACLE FUSION MIDDLEWARE 11g
Welcome
Skip Software Updates
Select Installation Type
Prerequisite Checks
Installation Location
Application Server
Configure Repositories
Master Repository
Supervisor User Details
Work Repository Details
Installation Summary
Installation Progress
Configuration Progress
Installation Completed
WebLogic Server
WebSphere
Application Server Location
/scratch/jymurthy/work/mw6047
Browse
WLS installation detected, WebLogic Server support available in this Middleware Home.
Help
< Back
Next >
Finish
Cancel

Oracle Fusion Middleware 11g Oracle Data Integrator Installation - Step 7 of
Repository Configuration
ORACLE FUSION MIDDLEWARE 11g
Welcome
Skip Software Updates
Select Installation Type
Prerequisite Checks
Installation Location
Application Server
Skip Repository Configur
Installation Summary
Installation Progress
Configuration Progress
Installation Completed
Configure Repositories
Use this option to configure the Oracle Data Integrator Studio and the Standalone Agent with an existing Master and Work repositories pair.
Skip Repository Configuration
Use this option to skip the Oracle Data Integrator Studio, Standalone Agent and Repository configuration. You will need to configure these components manually after the installation.
If you select this option, make sure to perform the post-installation steps detailed in the Oracle Fusion Middleware Installation Guide for Oracle Data Integrator.
Help
< Back
Next >
Finish
Cancel


Oracle Fusion Middleware 11g Oracle Data Integrator Installation - Step 8 of
Installation Summary
ORACLE FUSION MIDDLEWARE 11g
Welcome
Skip Software Updates
Select Installation Type
Prerequisite Checks
Installation Location
Application Server
Skip Repository Configurat
Installation Summary
Installation Progress
Configuration Progress
Installation Completed
Install and Configure Oracle Data Integrator
Directory Details
Middleware Home Location: /scratch/jymurthy/work/mw6047
Oracle Home Location: /scratch/jymurthy/work/mw6047/odi3628
Disk Space
Required: 2605 MB
Available: 11472 MB
Applications
Developer Installation
ODI Studio (with local agent)
ODI SDK
Save Response File:
Save
Click Install to accept this configuration and start the installation.
To change the configuration before starting the installation, select the topic to change in the left pane, or use the Back button.
Help
< Back
Next >
Install
Cancel


Oracle Fusion Middleware 11g Oracle Data Integrator Installation - Step 9 of
Installation Progress
ORACLE
FUSION MIDDLEWARE 11g
Prerequisite Checks
Installation Location
Application Server
Skip Repository Config
Installation Summary
Installation Progress
Progress
12%
Setting up ..
Install Log /home/jymurthy/oraInventory/logs/install2015-09-22_03-25-48AM
Setting Up: Oracle Data Integrator Studio Component 11.1.1.9.0
Setting Up: Oracle Data Integrator 11g 11.1.1.9.0
Setup Completed
Saving the inventory. It may take few minutes.
Oracle Fusion Middleware
More Flexibility
ORACLE
Help
< Back
Next >
Finish
Cancel


Oracle Fusion Middleware 11g Oracle Data Integrator Installation - Step 10 o
Configuration Progress
ORACLE
FUSION MIDDLEWARE 11g
Welcome
Skip Software Updates
Select Installation Type
Prerequisite Checks
Installation Location
Application Server
Skip Repository Configurat
Installation Summary
Installation Progress
Configuration Progress
Installation Completed
Configuration Tools
Name
Status
ODI Configuration
100%
Configure ODI Parameters
Abort
Retry
Continue
Configuration Log Location:
/home/jymurthy/oraInventory/logs/install2015-09-22_03-25-48AM.log
ODI Configuration
Help
< Back
Next >
Finish
Cancel



6. Start the Node Manager, Administration Server, and other managed servers.

2

Oracle BI Applications Infrastructure, Metadata, and Schema Updates

This section describes infrastructure, metadata, and schema updates for Oracle BI Applications.

Topics

- Downloading Oracle BI Applications 11.1.1.10.1 Software and Files
- Upgrading Oracle BI Applications Binaries to Version 11.1.1.10.1
- Applying Oracle Fusion Middleware Platform Patches for Oracle BI Applications 11.1.1.10.1
- Upgrading BIACOMP Schema
- Upgrading JAZN File
- Upgrading RPD
- Upgrading ODI Repository
- Importing and Applying ETL Customizations

Downloading Oracle BI Applications 11.1.1.10.2 Software and Files

Use these instructions to download Oracle BI Applications 11.1.1.10.2 software and files.

Download the Oracle BI Applications 11.1.1.10.2 installer, the BI Applications Repository Creation Utility (RCU) 11.1.1.10.2, and the Oracle Fusion Middleware (FMW) Platform Patch zip files from the Oracle Business Intelligence Applications 11.1.1.10.2 Media Pack available on Oracle Software Delivery Cloud.

Upgrading Oracle BI Applications Binaries to Release 11.1.1.10.2

Use these instructions to upgrade the Oracle BI Applications binaries to release 11.1.1.10.2.

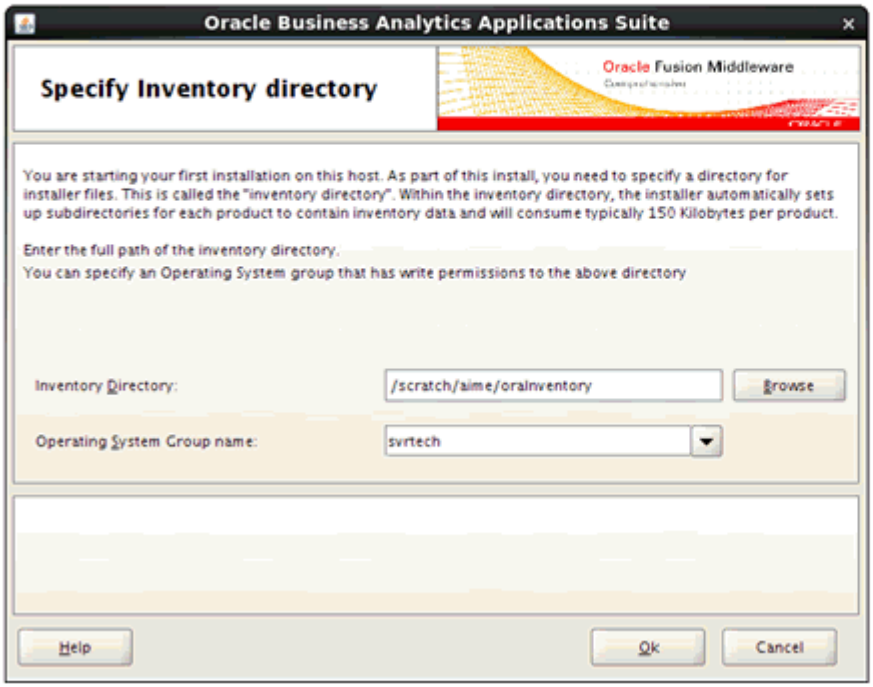
To upgrade Oracle BI Applications binaries:

1. Shut down the WebLogic Administration Server, the BI and ODI Managed Servers, and the Node Manager. Shut down the BI processes using Oracle Process Manager and the Notification Server (OPMN).

2. On the machine that hosts the Middleware Home and BI Oracle Home for the Oracle BI Applications 11.1.1.10.1 environment, run the Oracle BI Applications 11.1.1.10.2 installer. On Windows, run: `setup.exe –jreLoc <JDK or`

JRockit location>, and on Linux or UNIX, run: ./runInstaller -jreLoc <JDK or JRockit location>

```
[aime@slc08ypk Disk1]$ ./runInstaller -jreLoc /scratch/aime/jdk1.6.0_35/
Starting Oracle Universal Installer...

Checking Temp space: must be greater than 1536 MB.   Actual 19444 MB    Passed
Checking swap space: must be greater than 500 MB.   Actual 13999 MB    Passed
Checking monitor: must be configured to display at least 256 colors.    Actual 65536    Passed
Preparing to launch Oracle Universal Installer from /tmp/OraInstall2015-01-21_06-36-05AM. Please wait ...[aime@slc0
```



3. Enter the full path of the inventory directory and the Operating System group name. Click **Ok**.
4. The next dialog prompts you to run the scripts with root access. Click **Ok**
5. Click **Next** in the Welcome dialog.
6. Click **Next** in the Prerequisite Checks dialog.
7. The Specify Installation Location dialog displays the MW_HOME and BI_ORACLE_HOME values for your existing Oracle BI Applications 11.1.1.10.1 environment. Verify the locations and click **Next**.
8. When prompted to confirm whether you want to upgrade the existing BI_ORACLE_HOME, click **Yes**.
9. In the Summary dialog, review the installation details and click **Install** to proceed.
10. Click **Next** on the Installation Progress screen when the installation is complete.
11. Click **Finish** on the Complete screen to complete the installation.

    Do not start the WebLlogic servers and BI processes at this time.

Applying Fusion Middleware Platform Patches for Oracle BI Applications 11.1.1.10.2

Use these instructions to apply FMW platform patches for Oracle BI Applications 11.1.1.10.2.

The Fusion Middleware platform patches are available for download as part of the Oracle Business Intelligence Applications 11.1.1.10.2 media pack. To use Oracle BI Applications 11.1.1.10.2, you must have Oracle BI Enterprise Edition (Oracle BI EE) release 11.1.1.9.0 or later. Bundle Patches are included and will be applied to Oracle BI EE 11.1.1.9.0. If you have already applied higher Oracle BI EE Bundle Patch as compared to the Bundle patches supplied with media pack, then the Oracle BI EE patches will not be applied as part of this step. The release of ODI supported for Oracle BI Applications 11.1.1.10.2 is 11.1.1.9.0. An ODI patch is applied to 11.1.1.9.0 as part of this FMW patch application step.

To apply platform patches:

> **Note:** Run the Perl script available in `<BI_Oracle_Home>/biapps/tools/bin/APPLY_PATCHES.pl` to apply the patches. The Perl script requires a parameter input file `apply_patches_import.txt` In this procedure, before you run the Perl script, update the parameter input file to reflect the appropriate directory paths.

1. Ensure that the WebLogic Administration Server, BI and ODI Managed Servers, Node Manager, and BI processes are shut down.
2. Download all parts of 'Oracle Fusion Middleware Platform Patches for Oracle Business Intelligence Applications' and 'Oracle Fusion Middleware Platform Patches for Oracle Business Intelligence Applications for <OS>' from the Oracle Business Intelligence Applications 11.1.1.10.2 media pack on Oracle Software Delivery Cloud.
3. Extract all `.zip` files into the same Patch Home directory, for example, `C:\patches or PATCH_HOME/patches`.

   The directory structure of the extracted contents is not `patches4fa/dist/ps6rc3`. The patches are contained in folders: biappsshiphome, odi, weblogic, and oracle_common. You do not have to unzip the individual patches.
4. Update the parameter input file (apply_patches_import.txt) to reflect the paths as specified in the text file:
   a. Create a writable directory where logs and temporary patch files will be stored. In the apply_patches_import.txt file, you will set the WORKDIR parameter to point to the path for this directory.
   b. Open `apply_patches_import.txt`, which is located in the `<BI_Oracle_Home>/biapps/tools/bin`directory.
   c. Specify the following directory paths:

Directory	Path
JAVA_HOME	Path of the JDK. For example: `<BI_ORACLE_HOME>/jdk`

Directory	Path
INVENTORY_LOC	Path of the Oracle\Inventory directory. For example: `C:\Program Files\Oracle\Inventory`
ORACLE_HOME	Path of the BI Oracle Home.
MW_HOME	Path of the Oracle Middleware Home directory.
COMMON_ORACLE_HOME	Path of the oracle_common directory, which is under the Oracle Middleware Home directory.
WL_HOME	Path of the Oracle WebLogic Server Home directory.
ODI_HOME	Path of the ODI Home directory.
WINDOWS_UNZIP_TOOL_EXE	If the platform is Windows, then specify the complete path to the executable file of the unzip tool. For example: `C:\Program Files\7-Zip\7zFM.exe`
WORKDIR	Path of a writable directory where logs and temporary patch files are stored.
PATCH_ROOT_DIR	Path of the patch directory. It should have both the generic patches directory, and the platform specific directory; for example patches64 (Linux 64). For example: `C:\patches`or `PATCH_HOME/patches`

5. To apply the patch, run the following command from `<BI_Oracle_Home>/perl/bin`:

   ```
   <BI_Oracle_Home>/perl/bin/perl
   <BI_Oracle_Home>/biapps/tools/bin/APPLY_PATCHES.pl
   <BI_Oracle_Home>/biapps/tools/bin/apply_patches_import.txt
   ```

6. Confirm that all patches have been applied successfully by reviewing the following log files in the directory specified by WORDIR:

   - `final_patching_report.log` (summary of patch application)
   - `biappshiphome_generic_patches.log`
   - `biappshiphome_<OS specific>_patches.log`
   - `odi_generic_patches.log`
   - `oracle_common_generic_patches.log`
   - `weblogic_patching.log`

   Note: Do not start the Weblogic servers and BI processes at this time.

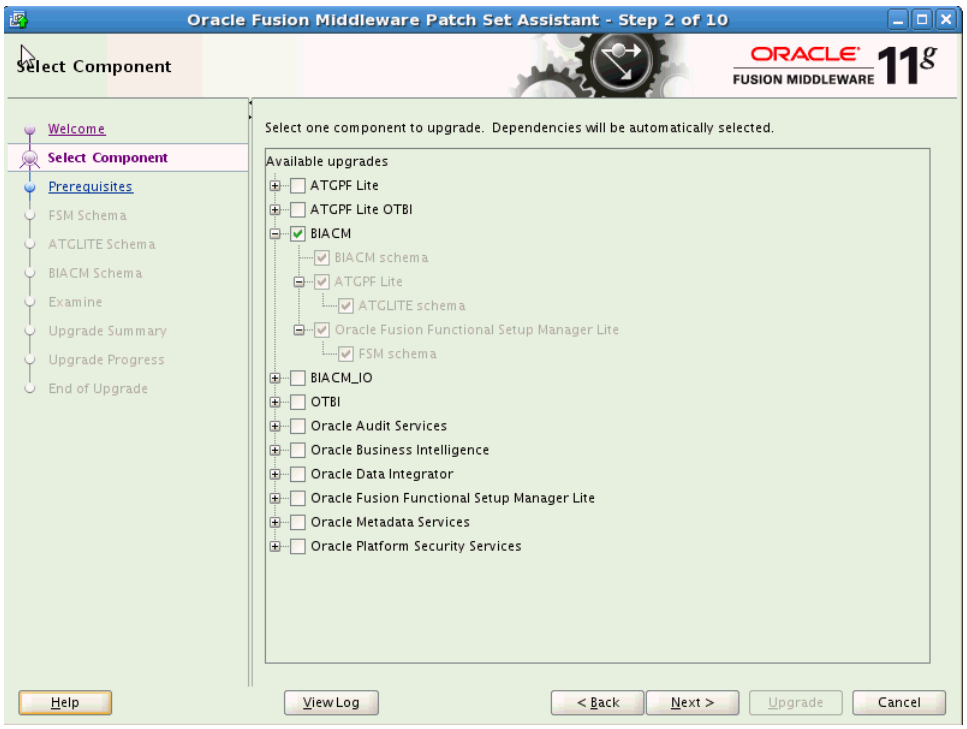
Upgrading BIACOMP Schema

Follow these instructions to upgrade the BIACOMP schema.

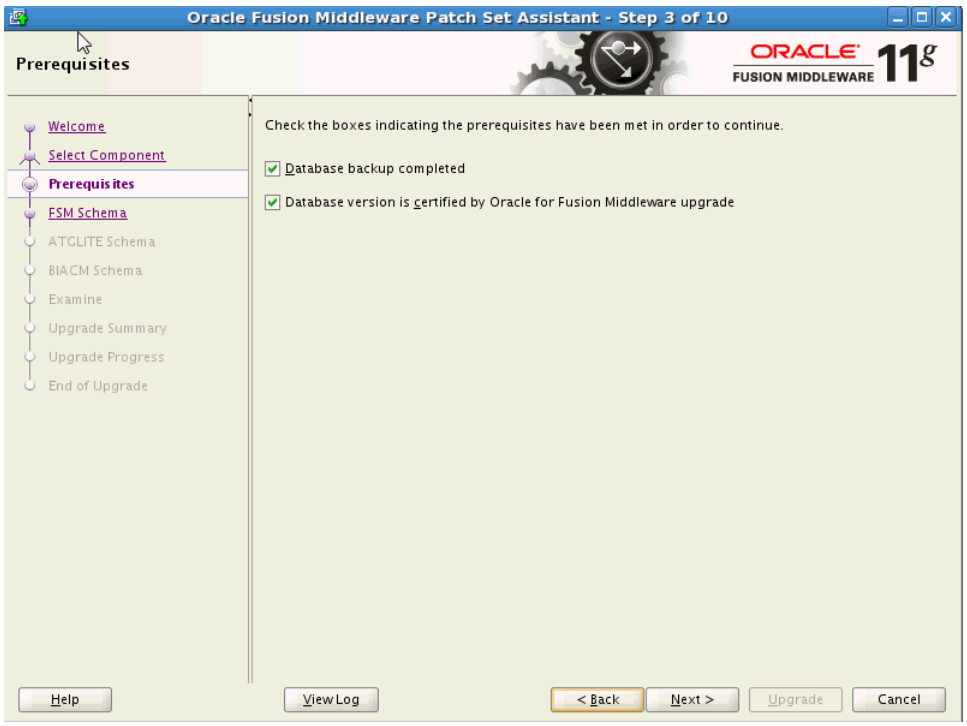
To upgrade the BIACOMP schema:

1. Go to `mw_home/BI_ORACLE_HOME/bin` and invoke the Patch Set Assistant (PSA). For example, for Linux, `<BI_Oracle_Home>/bin/psa` and for windows `<BI_Oracle_Home>\bin\psa.sh`.

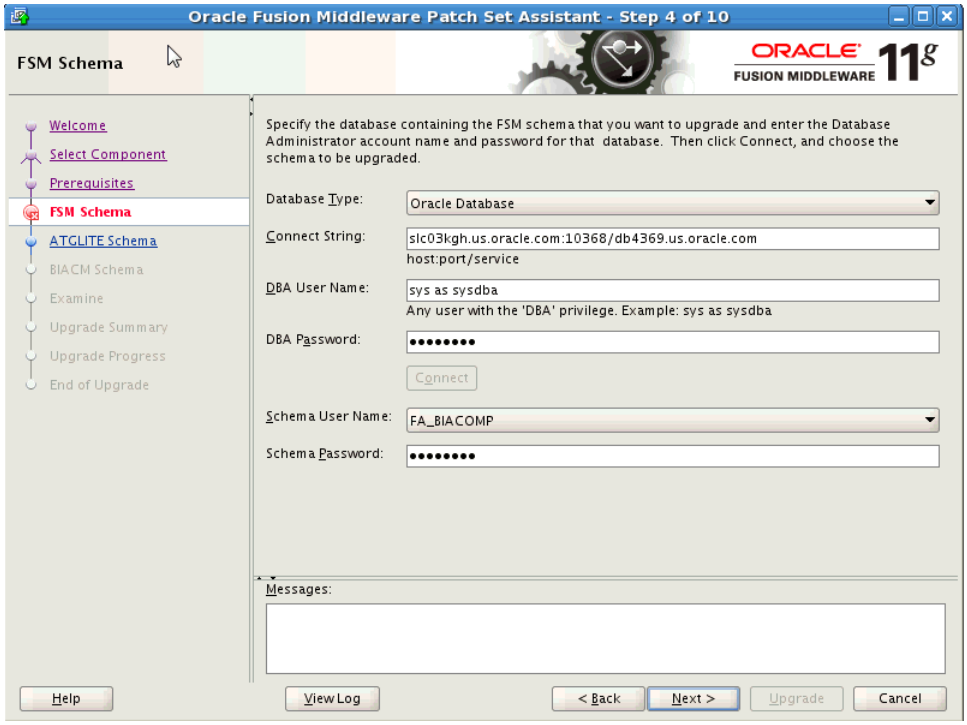
2. Click **Next** in the Welcome dialog.



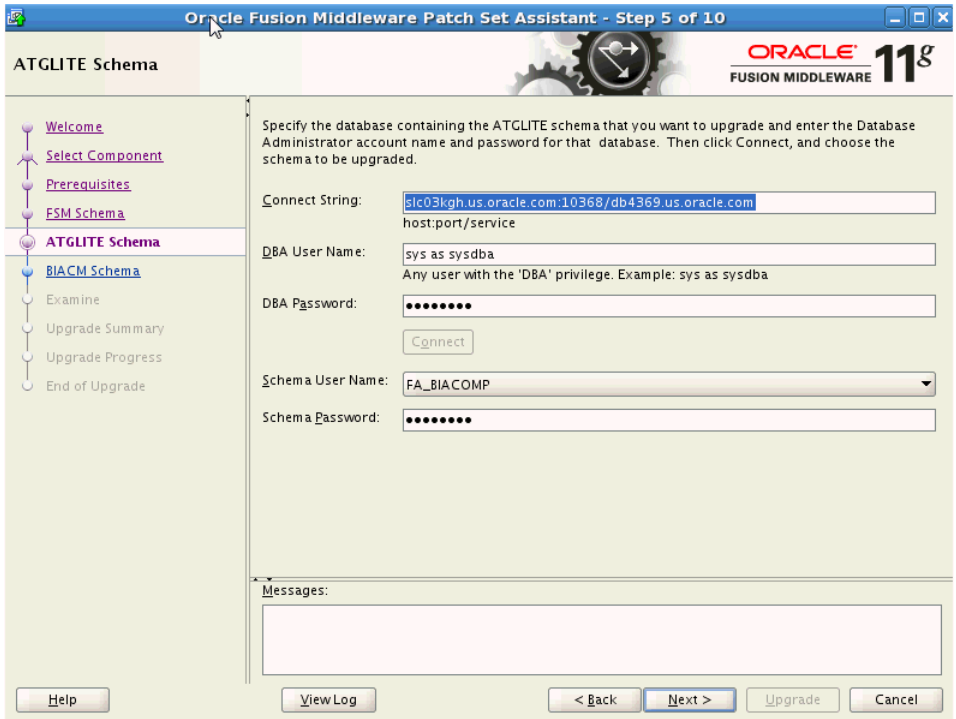
3. In the Select Component dialog, select **BIACM** and click **Next**.



4. In the Prerequisites dialog, select the check boxes to indicate that the prerequisites have been met and click **Next**.

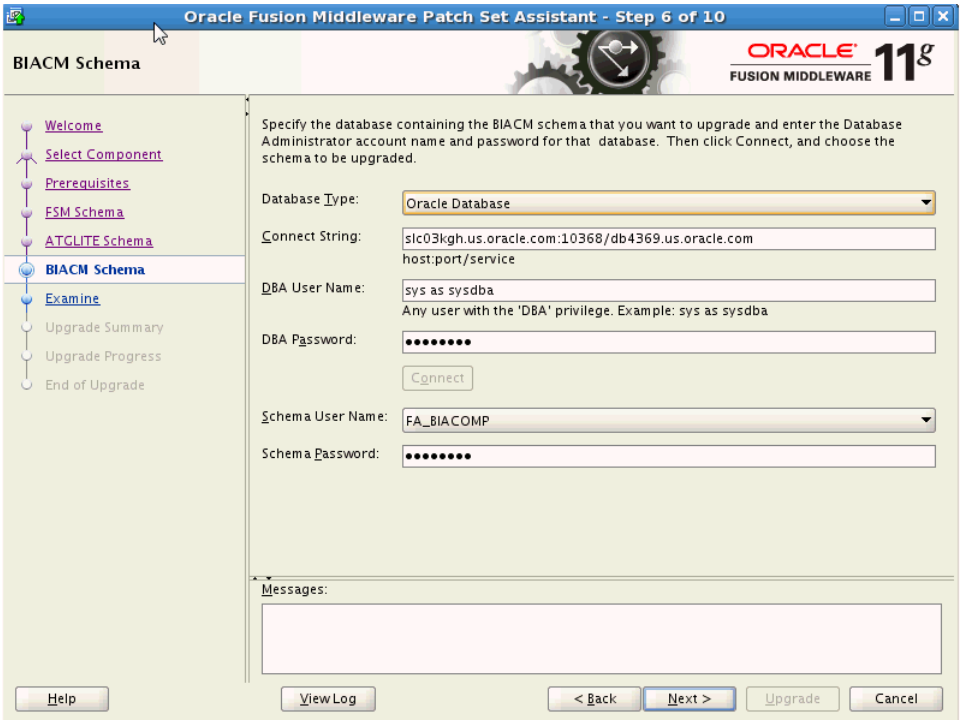


5. In the FSM Schema dialog, specify information pertaining to the FSM schema. Click **Connect** and then click **Next**.



6. In the ATGLITE Schema dialog, specify information pertaining to the ATGLITE schema. Enter details such as the connect string, the DBA user name and password. Enter `sys as sysdba` as user name and enter `sys` as password.

7. Click **Connect** and then click **Next**.



8. In the BIACM Schema dialog, specify information pertaining to the BIACM schema. Click **Connect** and then click **Next**.

9. Click **Upgrade** in the next dialog to complete the upgrade.

10. Repeat all the above steps by selecting **BIACM_IO** in the Select Components dialog.

    The Patch Set Assistant upgrades these components in the BIACOMP schema and displays the success message.

11. Log in into Middleware host where BI ORACLE HOME is present.

    a. Use SQLPlus or any SQL tool, log into BIACOMP schema, and run the following command:

    ```
    <ORACLE HOME>/biapps/admin/provisioning/update/11.1.1.10.2/from11.1.1.10.1/
    schema/oracle/obiacm/upgrade_grant_sysnonym_io.sql <BIACM_IO schema name>
    ```

    b. Ensure that there is no error message and exit from the BIACOMP schema.

    c. Log into BIACM_IO schema using SQLPlus and run the following command:

    ```
    <ORACLE HOME>/biapps/admin/provisioning/update/11.1.1.10.2/from11.1.1.10.1/
    schema/oracle/biacm_io/upgrade_synonym_io.sql <BIACOMP schema name>
    ```

    d. Ensure that there is no error message and exit from the BIACM_IO schema.

Upgrading the JAZN File

Use these instructions to upgrade the JAZN file.

To upgrade the JAZN file:

1. Create a writable directory where logs will be stored. For example, `WORKDIR_HOME/ JAZN_UPGRADE_WORKDIR` or `C:\JAZN_UPGRADE_WORKDIR`..
2. Perform the JAZN upgrade by running the following command:

   ```
   BI_ORACLE_HOME/jdk/bin/java -d64 -cp BI_ORACLE_HOME/biapps/patch/biappspatch.jar
   oracle.as.biapps.patch.update.UpdateBIAppsJAZNMetadata bi.oracle.home=<Path of
   the BI Oracle Home> bi.domain.home=<Path of the BI Domain Home directory>
   log.file=<Path of the work directory>/bi_jazn_patch.log work.dir=<Path of the
   work directory>
   ```

   For example:

   ```
   /Middleware_Home/Oracle_BI1/jdk/bin/java -d64 -cp /Middleware_Home /Oracle_BI1/
   biapps/patch/biappspatch.jar
   oracle.as.biapps.patch.update.UpdateBIAppsJAZNMetadata bi.oracle.home=/
   Middleware_Home /Oracle_BI1 bi.domain.home=/Middleware_Home/user_projects/domains/
   bifoundation_domain log.file=/WORKDIR_HOME/ JAZN_UPGRADE_WORKDIR  /
   bi_jazn_upgrade/bi_jazn_patch.log work.dir= /WORKDIR_HOME/ JAZN_UPGRADE_WORKDIR
   ```

   Note: After the process starts, you are prompted with the password.

3. Select a value in the Optional Paramater,**log.level** .

   The default value is INFO. The valid values are `FINEST, FINE, INFO, WARNING, SEVERE`

Upgrading the Repository

Follow these instructions to upgrade the repository using the BI Update Metatdata Tool.

To upgrade the repository using the BI Update Metatdata Tool:

1. Take a backup of the repository.
2. Create a writable directory where logs will be stored.

   For example, `C:\RPD_Upgrade` or `WORKDIR_HOME/ RPD_Upgrade`

3. Run the following command to upgrade the repository:

   ```
   <BI_Oracle_Home>/jdk/jre/bin/java -cp
   <BI_Oracle_Home>/biapps/patch/biappspatch.jar
   oracle.as.biapps.patch.update.UpdateBIAppsMetadata bi.oracle.home=<BI Oracle
   Home> bi.admin.url=<BI EM Admin URL> bi.admin.username=<bi EM Admin User>
   bi.admin.password=<BI EM Admin User Password> only.apply=rpd log.file=<Work dir>/
   rpd.log log.level=FINEST work.dir=<writable work dir path>
   saas.env=false

   Example:

   /Middleware_Home/Oracle_BI1/jdk/jre/bin/java -cp
   /Middleware_Home/Oracle_BI1/biapps/patch/biappspatch.jar
   ```

```
oracle.as.biapps.patch.update.UpdateBIAppsMetadata
bi.oracle.home=/Middleware_Home>/Oracle_BI1 bi.admin.url=http://host:7001
bi.admin.username=weblogic bi.admin.password=password only.apply=rpd
log.file=/WORKDIR_HOME/RPD_Upgrade/rpd.log log.level=FINEST
work.dir=/WORKDIR_HOME/RPD_Upgrade saas.env=false
```

For example: After the process starts, you are prompted with the password.

Optional Parameters:**log.level** - the default is INFO. The valid values are `FINEST, FINE, INFO, WARNING, SEVERE`.

Upgrading the Oracle Data Integrator Repository

This section describes the steps to upgrade an existing Oracle Data Integrator (ODI) repository from release 11.1.1.10.1 to 11.1.1.10.2.

In order to retain the existing topology and security configuration in ODI while at the same time minimizing the impact on other tools that interact with ODI (that is, Oracle BI Applications Configuration Manager (Configuration Manager) and the Oracle BI Applications instance of Oracle WebLogic Server), the upgrade process requires that you export the existing or pre-upgrade configurations from the ODI Master Repository, drop the existing pre-upgrade ODI Work and Master Repositories, import the new upgrade ODI Work and Master Repositories into the same schema, then import the pre-upgrade ODI Repository configurations.

This effectively replaces all content (such as interfaces, packages, models, knowledge modules, load plans) while retaining the configuration definitions.

The process also allows you to retain any customizations performed by exporting the customizations from the pre-upgrade repository and importing them back in after the repository has been upgraded.

Creating a Backup of the 11.1.1.10.1 ODI Repository

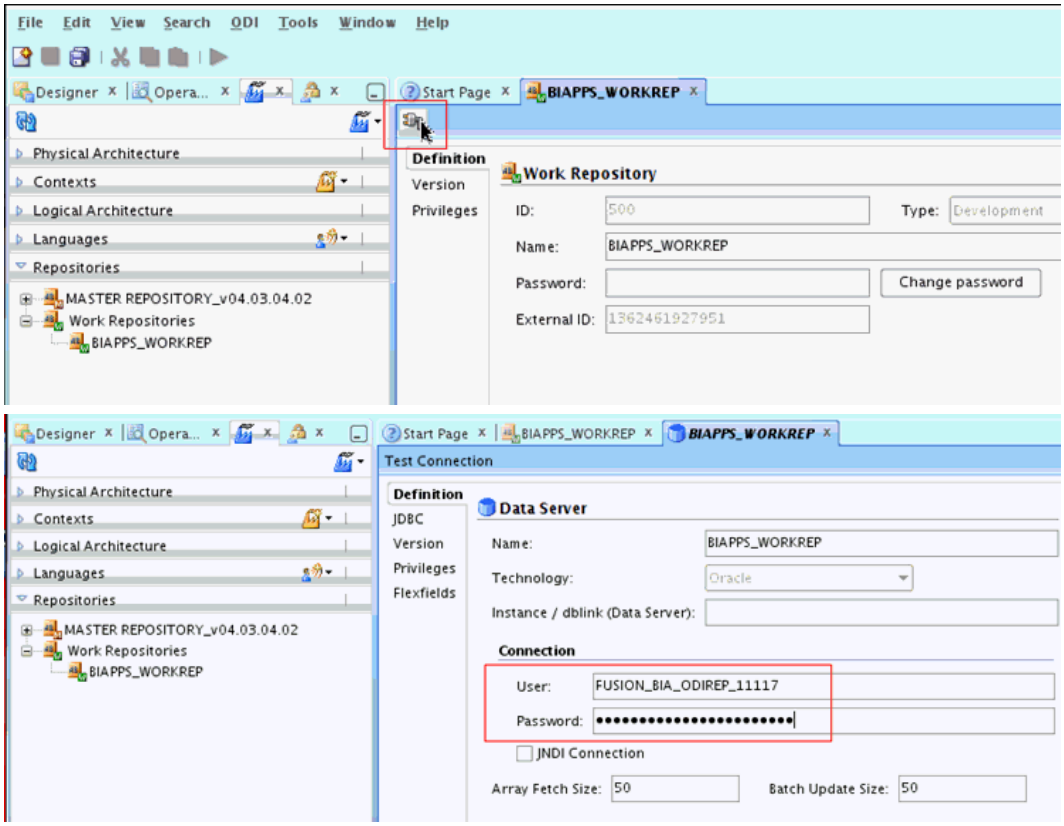
Follow these instructions to create a backup of the 11.1.1.10.1 ODI repository.

Use the Oracle Database Export and Import utility to export the ODI Repository for Oracle BI Applications 11.1.1.10.1 from the existing schema and import it into another schema. This will allow you to connect to the 11.1.1.10.1 ODI repository in case you need to reference it.

Create a connection in ODI to the 11.1.1.10.1 Backup ODI Repository which is now in a new database schema.

To create a new connection in ODI Studio to the back-up of the ODI Repository for 11.1.1.10.1:

1. Configure the connection to use the same ODI user you used before.
2. Configure the connection as a Master Repository connection.
3. Connect to the repository. Click **Topology**, click **Repositories**, and select **BIAPPS_WORKREP**.
4. Edit the repository to change the database user details used by the Work Repository to use the new schema.



5. Disconnect from the repository, reconfigure the connection to include the Work Repository, connect, and verify that all details are correct.

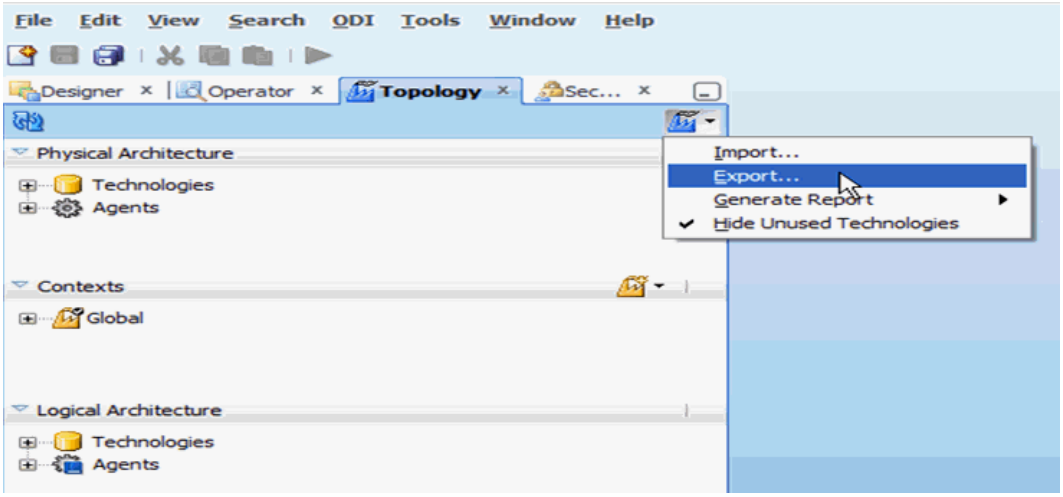
Exporting Content from the 11.1.1.10.1 ODI Repository

Use these instructions to export content from the 11.1.1.10.1 ODI repository.

To export content from the 11.1.1.10.1 ODI repository:

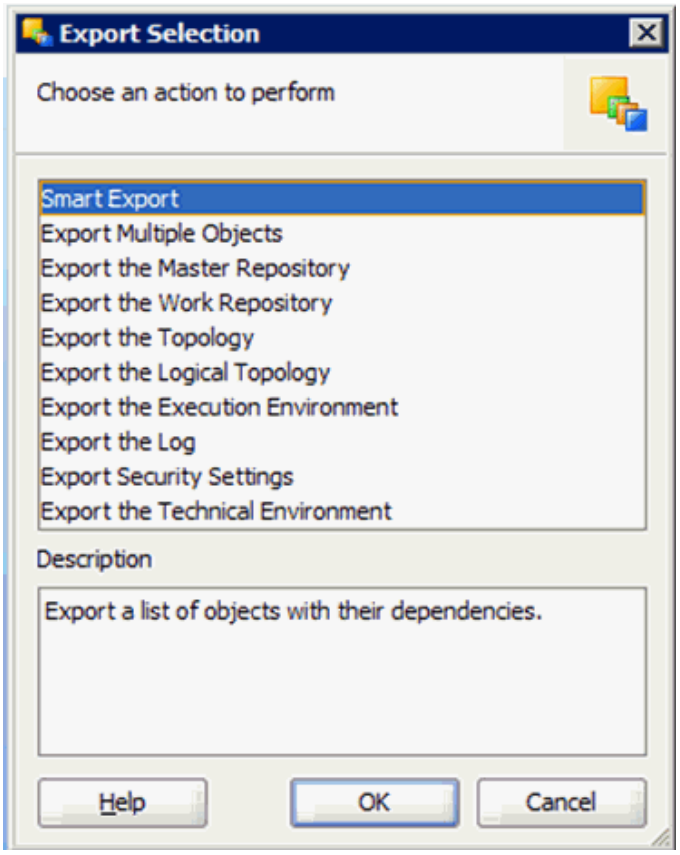
1. Launch the ODI Studio client and connect to the ODI repository for Oracle BI Applications 11.1.1.10.1. (Do not connect to the backup of the ODI repository).
2. Navigate to the **Topology** tab. From the **Connect Navigator** (Topology icon drop-down on the top right side of the navigator pane), select **Export**.

   As part of the procedures described here, you will export files to a local directory.



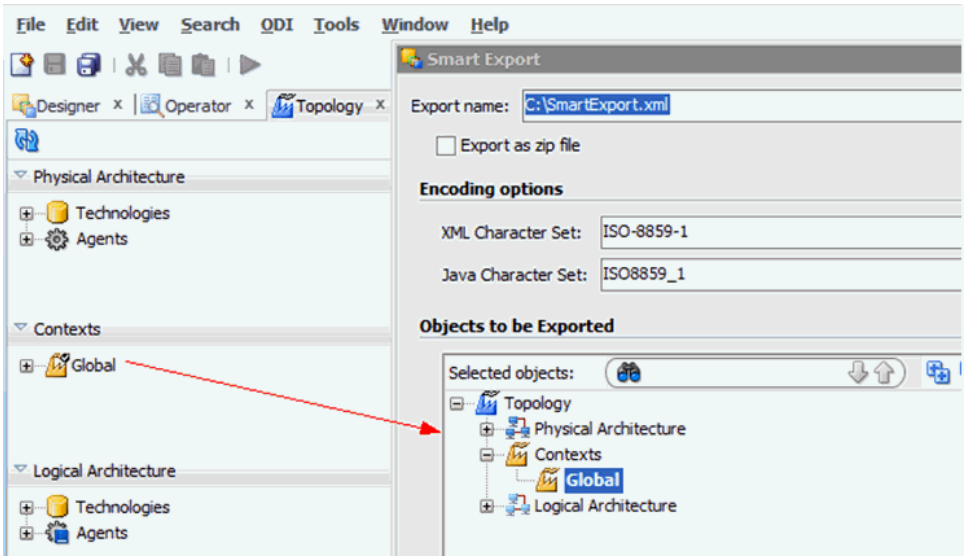
3. To export connections, complete the following steps:

   a. Launch the **Smart Export** wizard from the Export selection dialog.



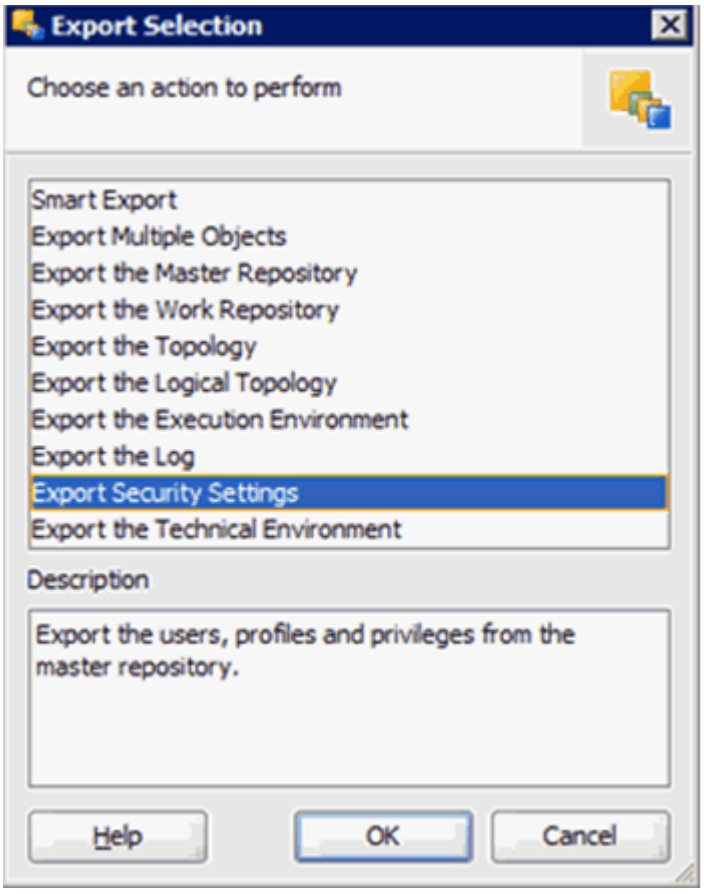
   b. Drag the **Global** context into the Objects to be Exported window. Provide a meaningful name for the export file and click **Export**.

      This exports the logical and physical topology including assigned Datasource Num ID values and database connect details.



4. To export security details, complete the following steps:

   a. Select the option to export security settings.



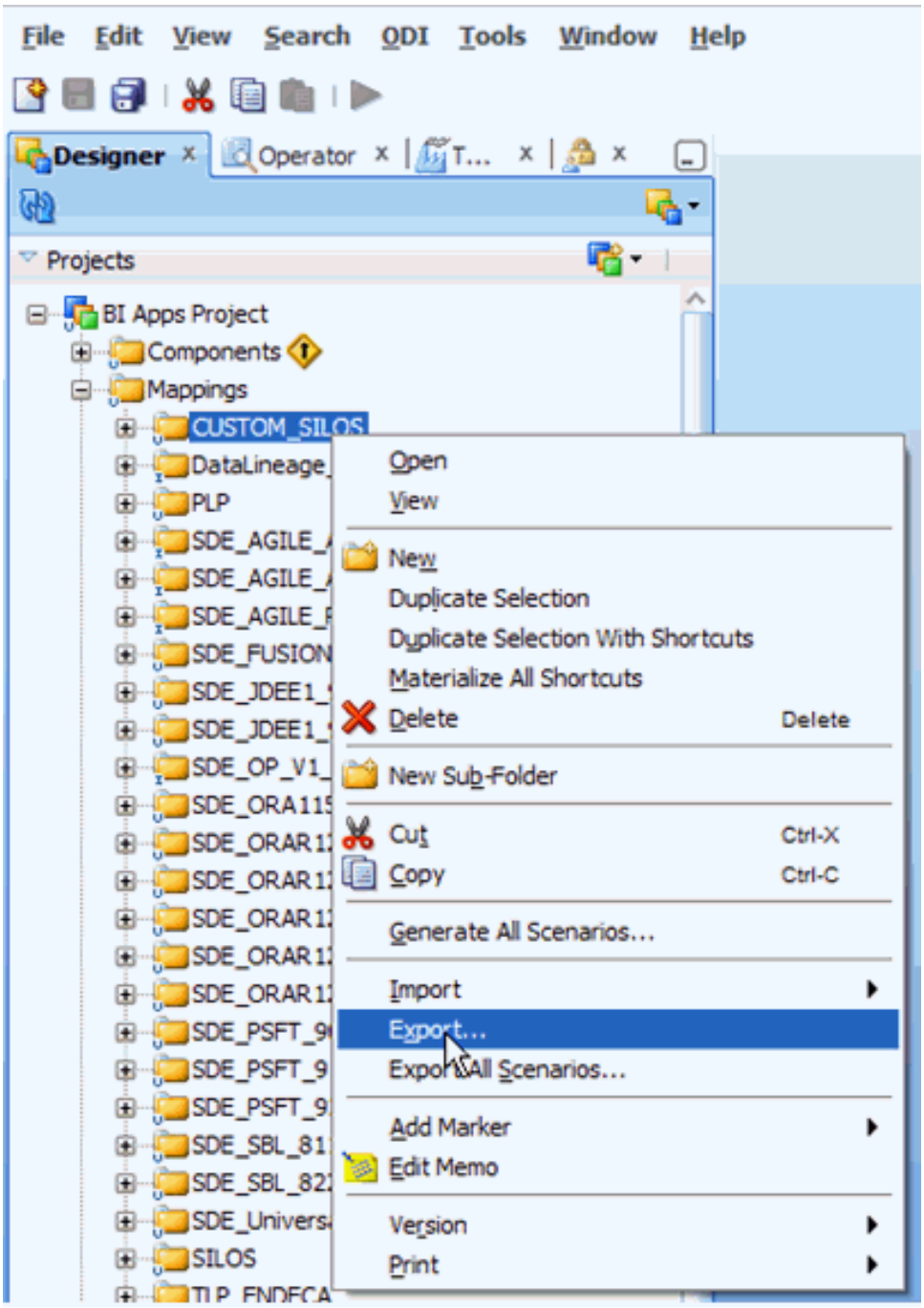
   b. Choose to export to a local file (directory).

      This action exports your user configurations.

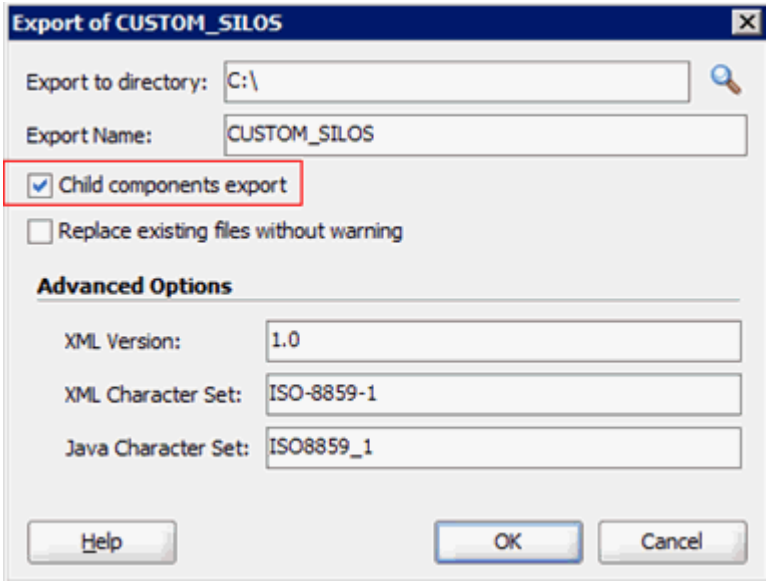
5. To export any customizations in your ODI repository, complete the following steps:

   a. Export the **Custom** folder by right-clicking it and selecting the **Export** option.

      Per the customization methodology, all custom and customized ETL tasks are in a separate CUSTOM folder.

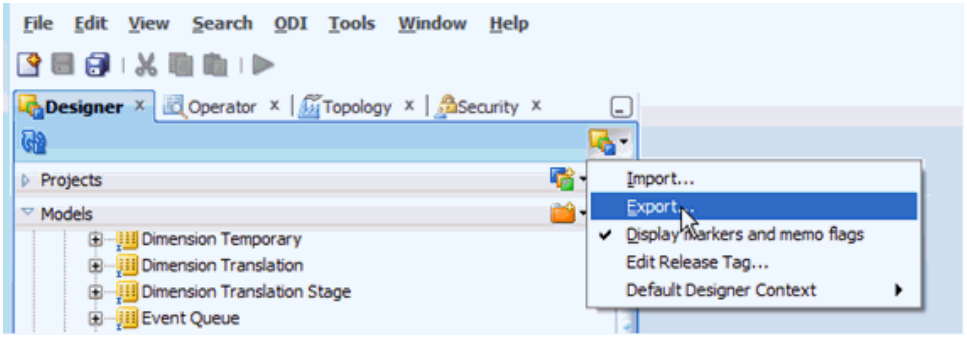


   b. In the next window, ensure that the **Child Components Export** check box is selected.

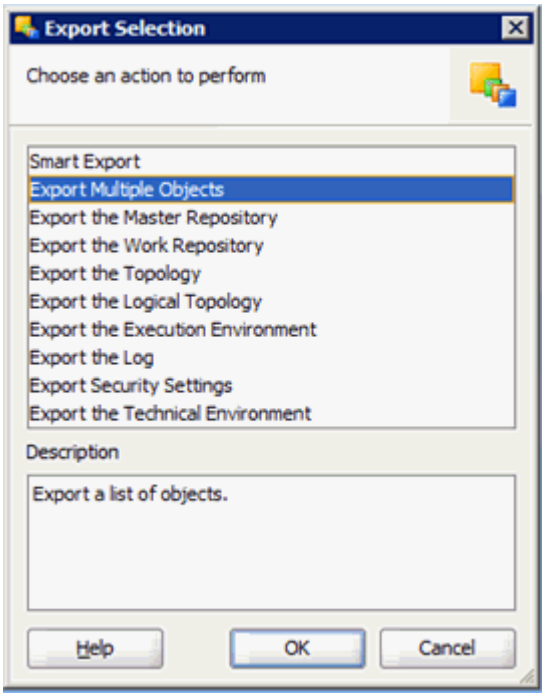


6. To export customized data stores, complete the following:

   a. Click the **Export** option from the navigator window.

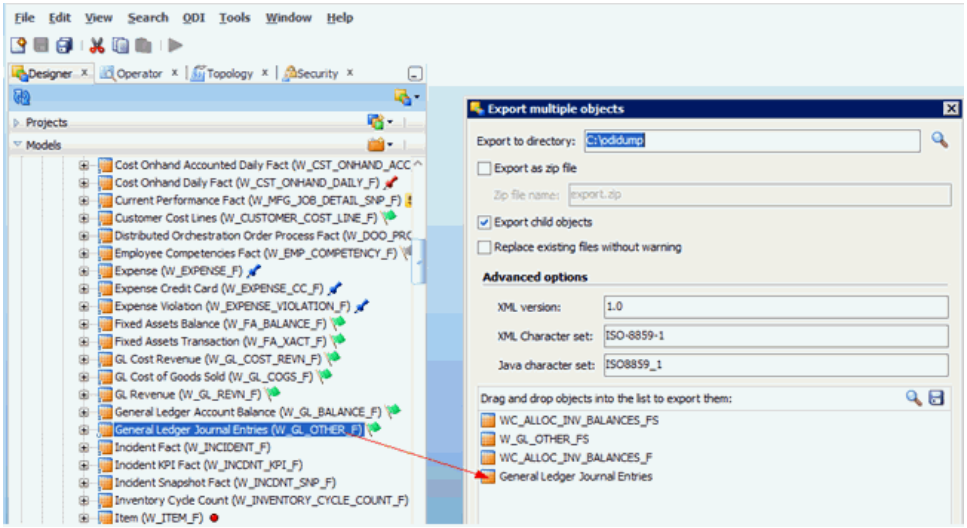


   b. Select the option to export multiple objects.



c. Drag and drop your purely custom and customized data stores. Ensure that the **Export child objects** option is selected.

In the example below, WC_ALLOC_INV_BALANCES_F/FS are purely custom tables while W_GL_OTHER_F/FS are tables that have been customized.



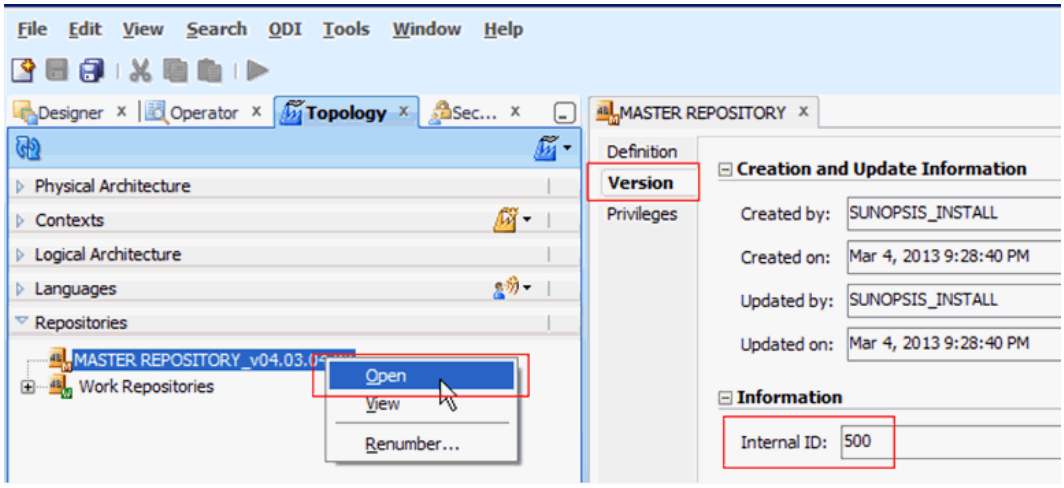
Noting the ID of the 11.1.1.10.1 ODI Repository

ODI requires that the ID of the repository you import objects into be different from the ID of the repository that objects were exported from.

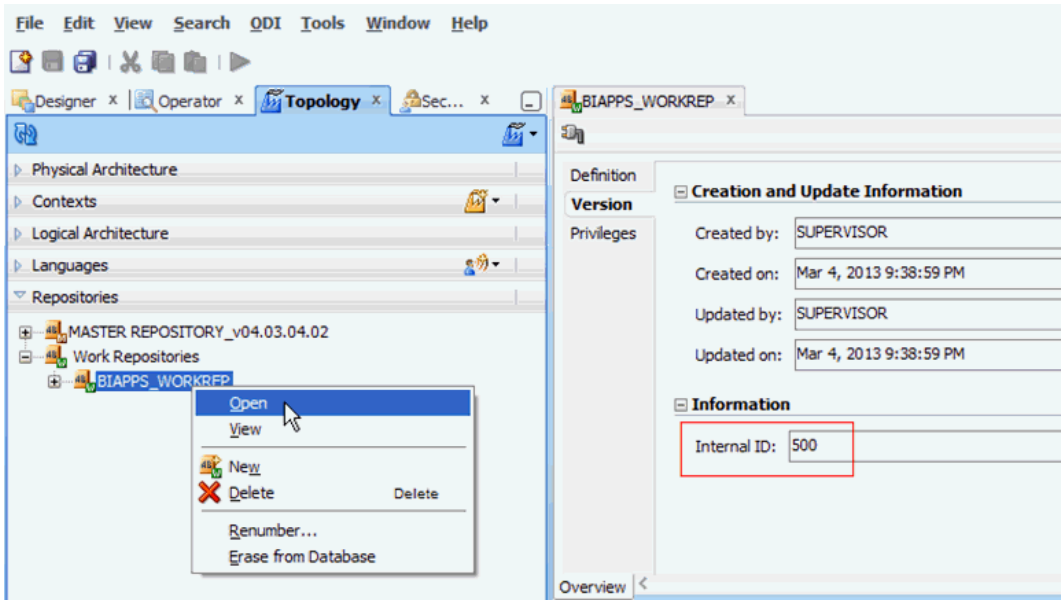
You need to note the ID of the 11.1.1.10.1 ODI Repository as after the repository is replaced with the 11.1.1.10.2 repository, the repository ID will be updated to a non-conflicting number. The default value 500 is assigned to all repositories that are shipped by Oracle. If you have migrated the repository across environments, the value could be different from this default value.

To note the ID of the ODI Repository for Oracle BI Applications 11.1.1.10.1:

1. Click **Topology**, **Repositories**, and select **Master Repository**. Right-click **Master Repository** and select **Open**, select **Version**, select **Information**, and then select **Internal ID**.
2. Note the ID.



3. Do the same for the Work repository. The repository ID should have the same value.



Dropping the 11.1.1.10.1 ODI Repository Schema

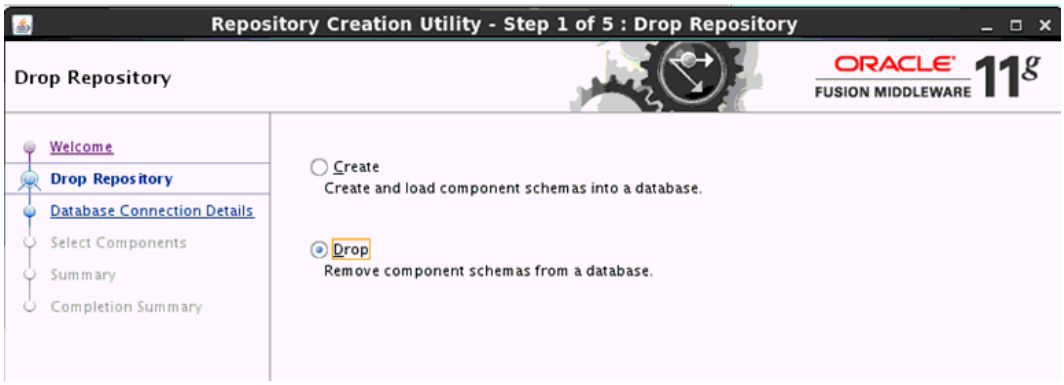
Use the BI Applications RCU to drop the existing 11.1.1.10.1 ODI Repository schema.

You can use either the BI Applications 11.1.1.10.1 RCU or the 11.1.1.10.2 RCU. You will be prompted with a list of schemas that have already been installed. You must select the schema where the ODI repository for 11.1.1.10.1 exists.

Note: Only drop the `<prefix>_BIA_ODIREPO`. Do not drop any other schema.

To drop the 11.1.1.10.1 ODI repository schema:

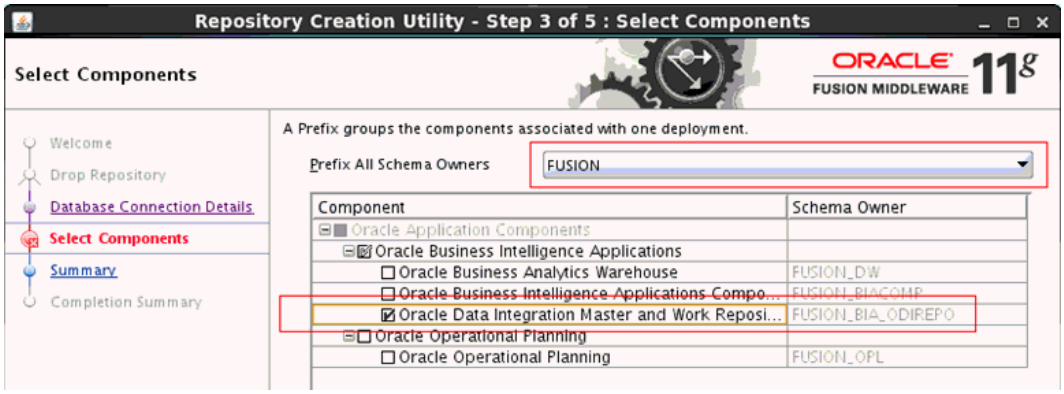
1. Launch the BI Applications RCU and select the **Drop** radio button.



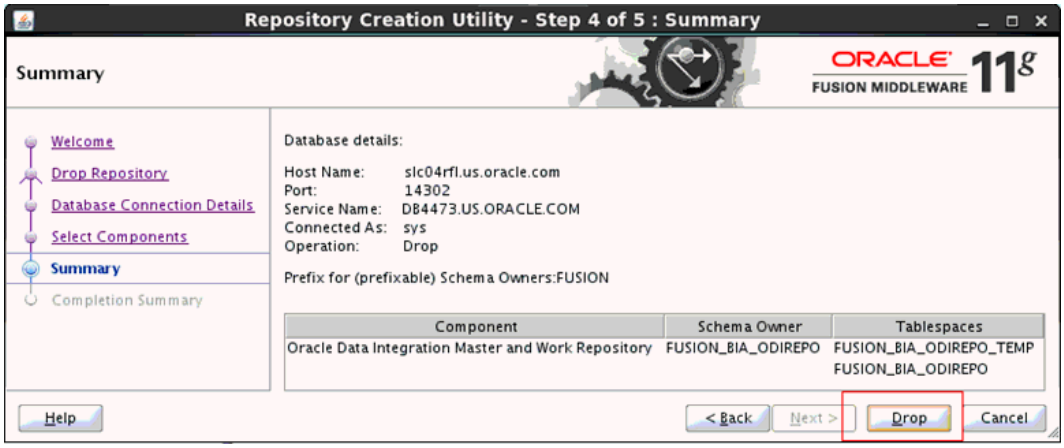
2. In the Database Connection Details screen, provide the connection details to the database which hosts the ODI Repository for Oracle BI Applications 11.1.1.10.1.

3. From the **Prefix All Schema Owners** list, select the prefix for your Oracle BI Applications 11.1.1.10.1 schemas.

4. Select only the **Oracle Data Integration Master** and **Work Repository** from the Select Components screen. Do not select any of the other schema components.



5. Click **Drop** to drop the ODI repository schema for 11.1.1.10.1.



Creating the ODI Repository for Oracle BI Applications 11.1.1.10.2

Use these instructions to create the ODI repository for Oracle BI Applications 11.1.1.10.2.

These steps are the same as when installing a refresh ODI repository. The only difference is that you need to select the option to restore the ODI Master and Work repositories only.

You must run the BI Applications 11.1.1.10.2 RCU to create the schema for the ODI repository for 11.1.1.10.2. This schema will use the same name as the 11.1.1.10.1 ODI repository schema that was just dropped.

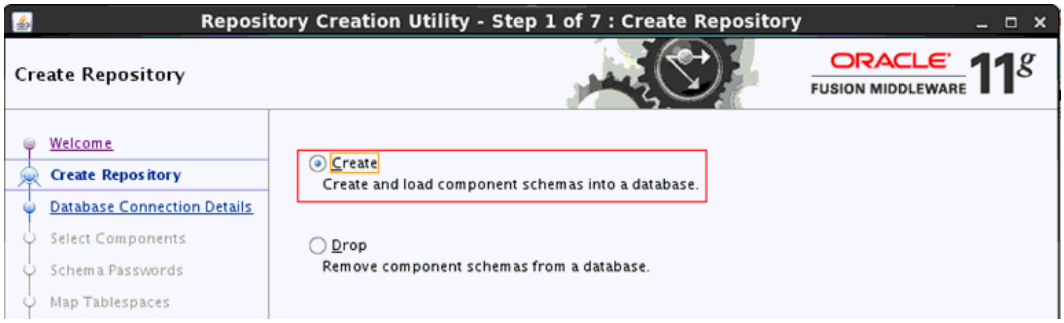
> **Note:** You must select the option to use an existing prefix and re-use the same prefix that was used by the schema that was previously dropped.

To create the ODI repository for Oracle BI Applications 11.1.1.10.2:

1. Unzip the BI Applications 11.1.1.10.2 RCU downloaded from the Oracle Business Intelligence Applications 11.1.1.10.2 media pack.
2. If you are not running RCU on the database host machine, then you must copy the `obia_odi.dmp` file to a directory with global write access on the appropriate database server machine.

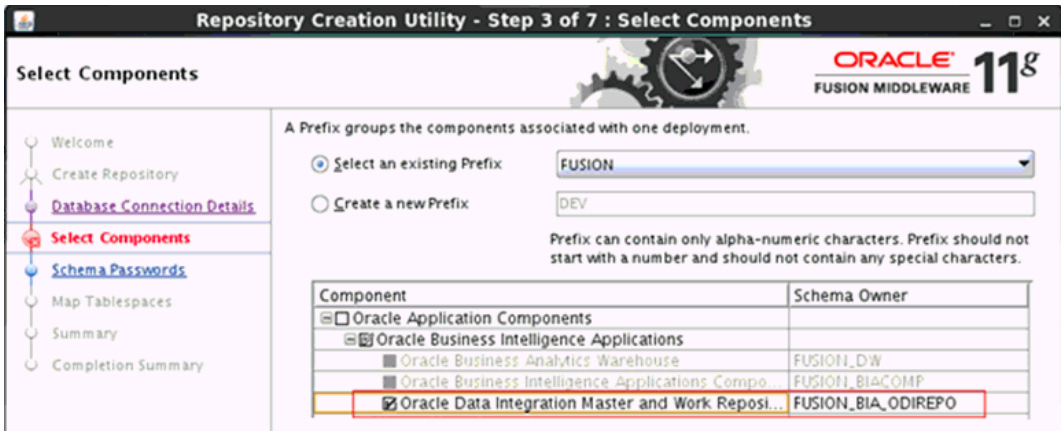
   RCU writes log files to this directory. The `.dmp` file is located in `BIA_RCU_HOME/rcu/integration/biapps/schema`.
3. Launch the BI Applications RCU for 11.1.1.10.2 from `BIAPPS_RCU_HOME\bin`:

   ```
   UNIX: ./rcu
   Windows: rcu.bat
   ```
4. Select the **Create** radio button.



5. In the Database Connection Details screen, provide the connection details to the database which previously hosted the ODI repository for Oracle BI Applications 11.1.1.10.1 which you dropped in the previous procedure.

6. In the **Select Components** screen, from the **Select an existing Prefix** list, select the same prefix as that of your ODI repository for 11.1.1.10.1. If you do not see the prefix as an existing prefix, then choose the **Create a new Prefix** radio button and enter the same prefix as you had used before for the ODI repository for 11.1.1.10.1.



7. Select the **Oracle Data Integration Master** and **Work Repository**. Do not select any other component.

8. In the **Value** field in the Custom Variables screen, for the `<prefix>_BIA_ODIREPO` schema enter the directory path of the folder on the database server that contains the `obia_odi.dmp` file.

> **Note:** Do not include the name of the `.dmp` file in the directory path.

9. Complete the ODI repository creation.

10. Create a connection in ODI Studio to the ODI repository for 11.1.1.10.2 which you created in the previous step.

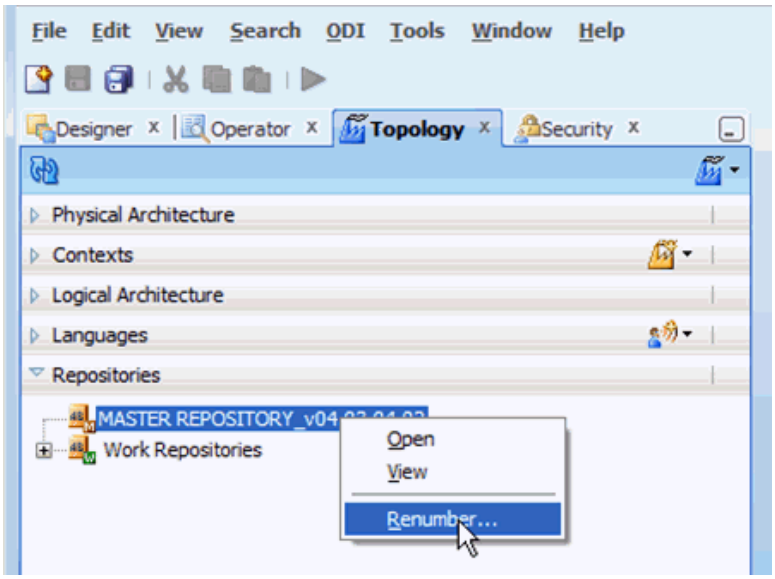
    The repository is set to Internal Authentication. The user and password you use to connect to the repository are:

    - User: SUPERVISOR
    - Password: welcome

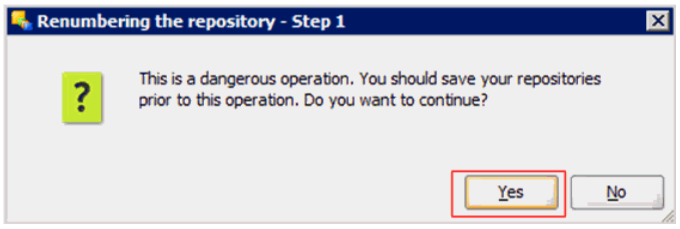
11. Change the ID of the 11.1.1.10.2 ODI repository.

The ID of the repository has to be changed from the default to avoid conflicts when importing the configurations, objects, and customizations from the ODI Repository for 11.1.1.10.1. To note the default repository ID for the Master and Work repositories (default value is 500), see Noting the ID of the 11.1.1.10.1 ODI Repository. Use the following steps to update the value in the ODI repository for 11.1.1.10.2 to a different value:

a. In ODI Studio, click **Topology**, click **Repositories**, click **Master Repository**. Right-click **Master Repository** and select **Renumber**.

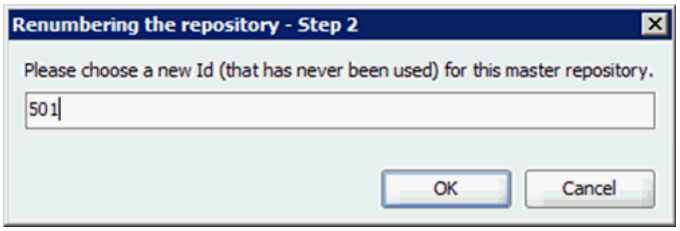


b. On the Renumbering the repository – Step 1 dialog, click **Yes**.

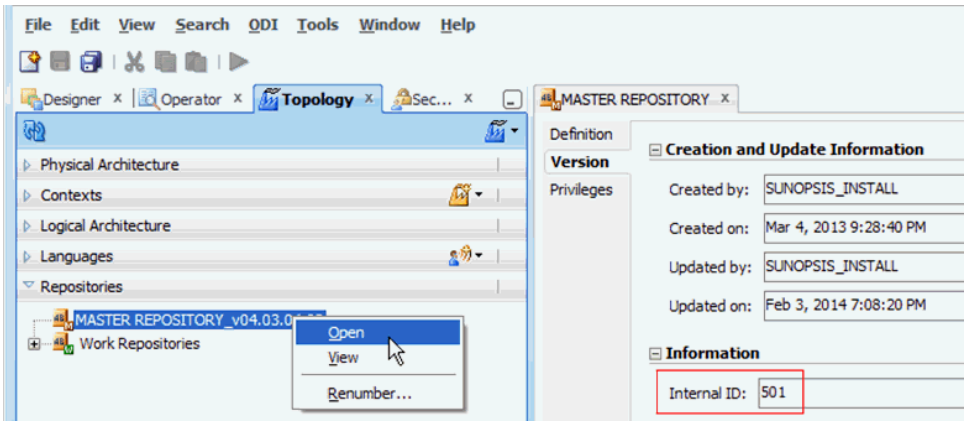


c. On the Renumbering the repository – Step 2 dialog, enter a new ID that has not been used for any of your existing ODI Repositories. Oracle suggests incrementing the value you noted in Noting the ID of the 11.1.1.9.2 ODI Repository by 1. Click **OK**.

Note: Ensure that the incremented value is not the same number as the Repository ID of any existing ODI repository. Oracle reserves all values below 500. All repositories are shipped with 500 as the default value. The value that you enter must be a numeric ID between 501 and 899.

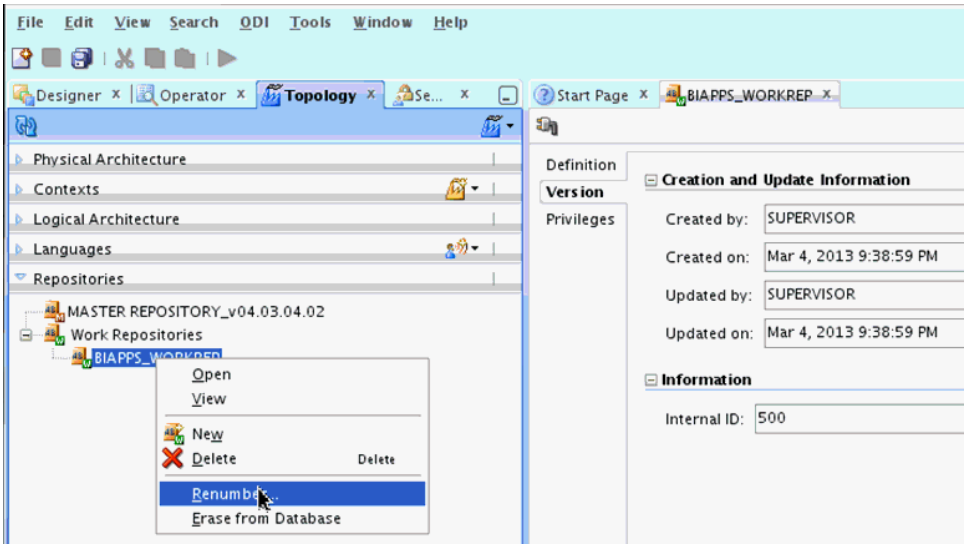


d. Verify the new number by selecting the **Master Repository**. Right-click and select **Open** to view the Internal ID value that was set in the previous step.



e. Repeat steps a–d to renumber the Work repository to the same value as the renumbered Master repository.

Note: ODI recommends using different values for Master and Work repositories in certain cases. None of these cases apply to Oracle BI Applications, which requires that both repositories use the same value.



Copying Source Files for Upgrading

When you install BI Applications, you install source files in the BI_Oracle_Home/biapps/etl directory. Functional developers configure these files for use during the

ETL process. You must copy these files to a location that the ODI Agent that is deployed in the Oracle WebLogic Server can access but that is outside of the Oracle Home directory. If you don't copy the files outside of the Oracle Home directory, then when you upgrade or patch BI Applications, the files are overwritten.

Importing Content into the 11.1.1.10.2 ODI Repository

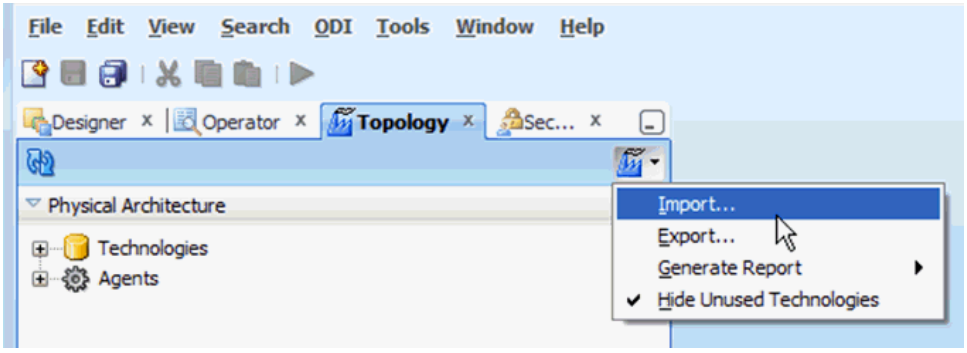
Use these instructions to import content into the 11.1.1.10.2 ODI repository.

To import content into the 11.1.1.10.2 ODI repository:

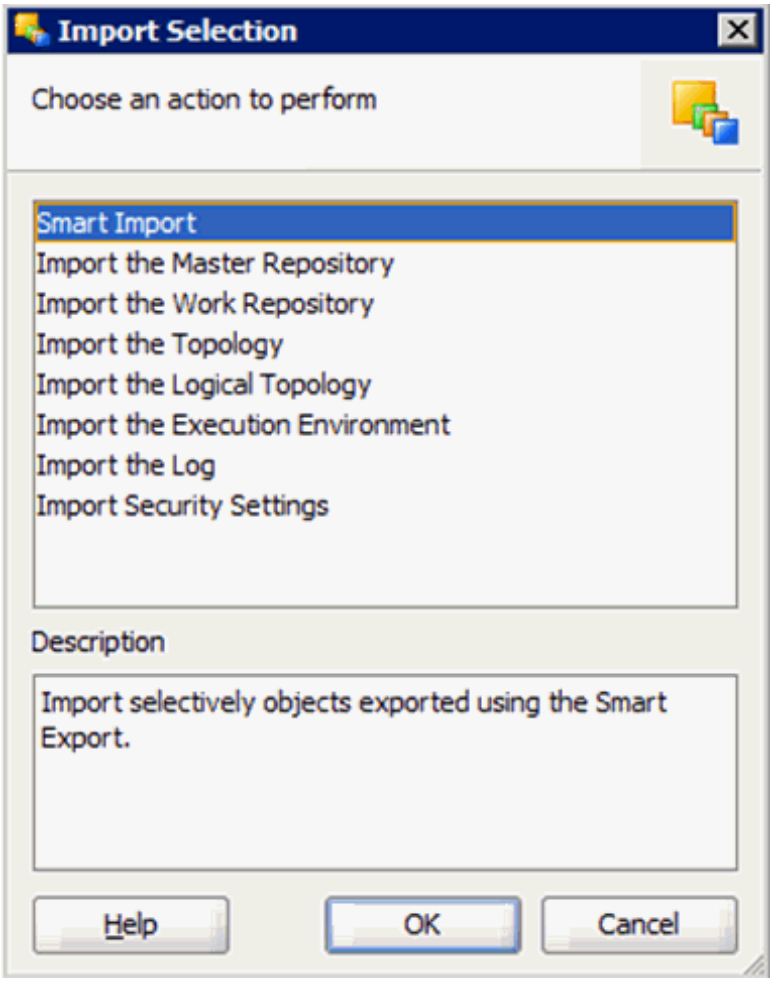
1. Import connection details as follows:

   a. Launch the ODI Studio client and connect to the ODI repository for Oracle BI Applications 11.1.1.10.2.

   b. Navigate to the **Topology** tab. In the **Topology** tab, from the **Connect Navigator** (Topology icon drop-down on the top right side of the navigator pane), select **Import**. As part of the procedures described below, import the file created by exporting the **Global** context while exporting connections.

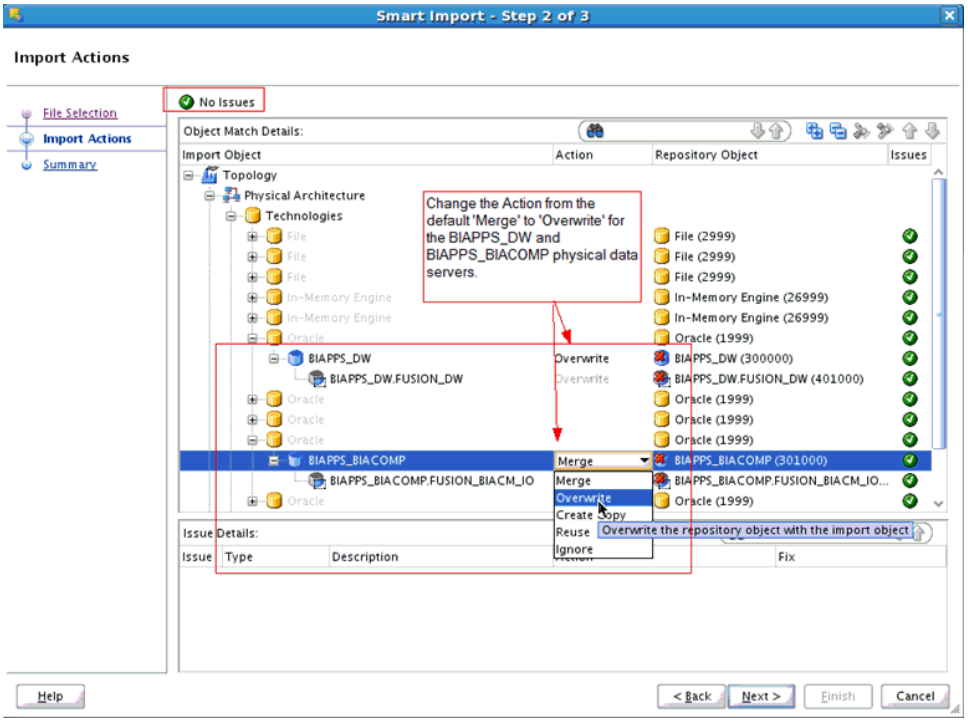


   c. In the Import Selection dialog, select **Smart Import**.



d. In the File Selection dialog, specify the export file created while exporting connections.

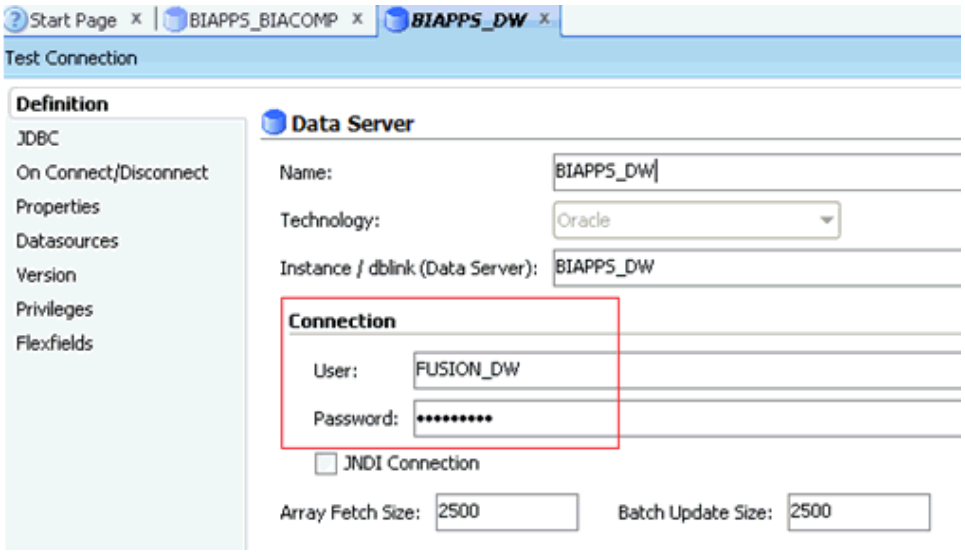
e. The default behavior of Smart Import is to merge details in the target repository. Ensure that no issues are reported – if issues are reported, then resolve them to ensure that the existing details are replaced by the details being imported. Select the `BIAPPS_DW` and `BIAPPS_BIACOMP` Data Servers, select the **Overwrite** option and continue.



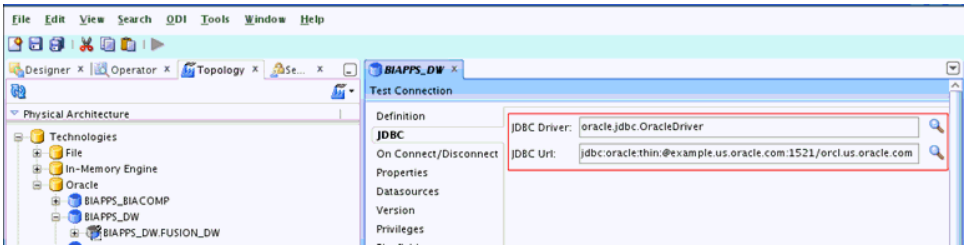
2. Verify that the physical servers have the correct details and the physical schemas have the correct `Datasource Num ID` value set in the `DATASOURCE_NUM_ID` flexfield as follows:

   a. In ODI Studio, click **Topology** and select **Physical Architecture**. Open the `BIAPPS_DW` physical server.

   b. Verify that the user and password are correctly populated under the **Definition** tab.



   c. On the JDBC tab, verify that the JDBC URL is correctly set. If you used the default **Merge** action during the Smart Import, then the user and password will be updated but the JDBC URL will remain unchanged.

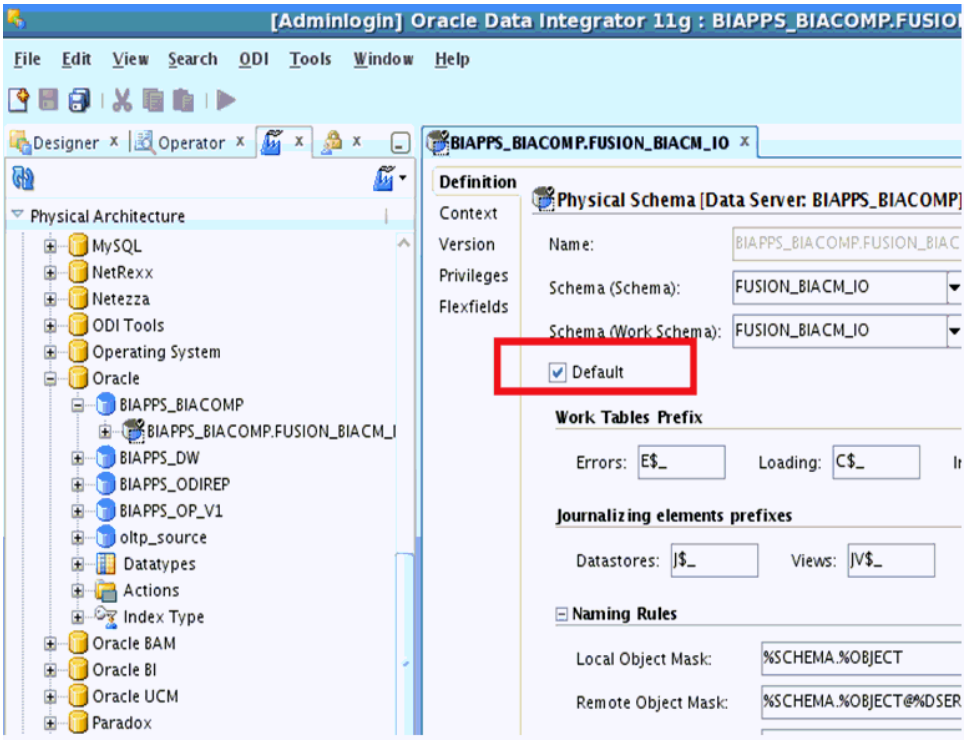


d. Repeat step 2 and its substeps for the `BIAPPS_BIACOMP` physical server.

e. Verify that the physical schema for BIACOMP and DW are set as defaults using these instructions. If they are not set as defaults, then the Load Plans will fail.

i. In the ODI Studio, click **Topology** and select **Physical Architecture**.

ii. Open the physical schema under the `BIAPPS_BIACOMP` physical server.

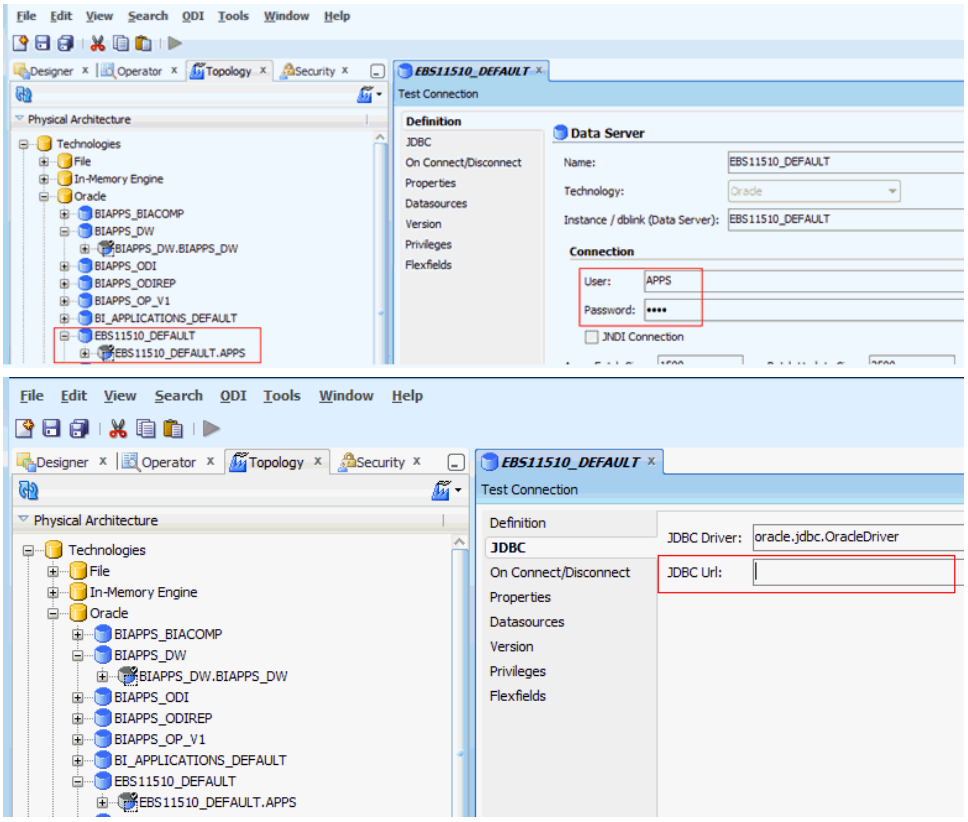


iii. Verify that the **Default** check box is selected on the **Definition** tab and save the changes.

iv. Repeat steps ii and iii for the physical schema under the `BIAPPS_DW` physical server.

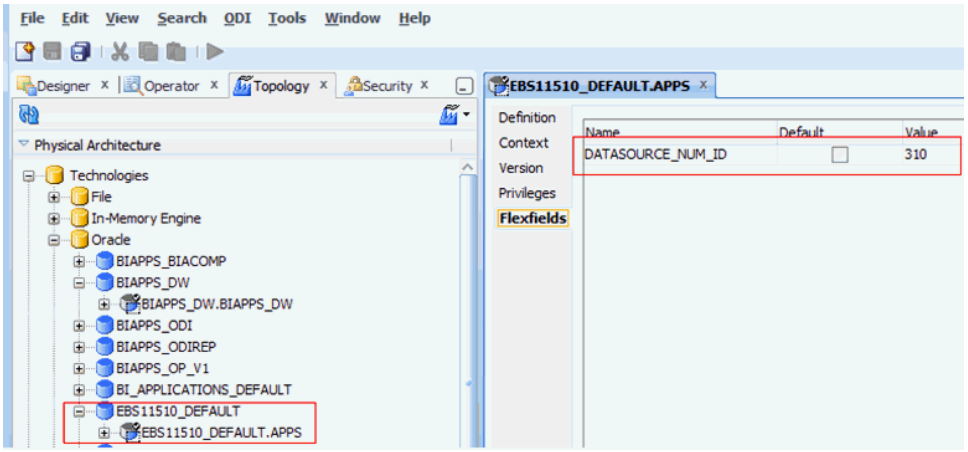
f. Verify the source connection details.

For example, if you need to extract from an instance of eBusiness Suite 11.5.10, then open the corresponding physical server (here named `EBS11510_DEFAULT`) and verify the User/Password and the JDBC.

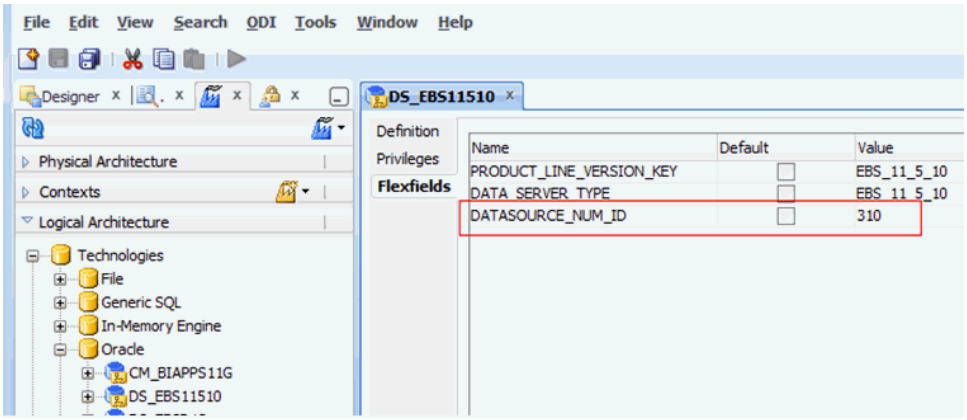


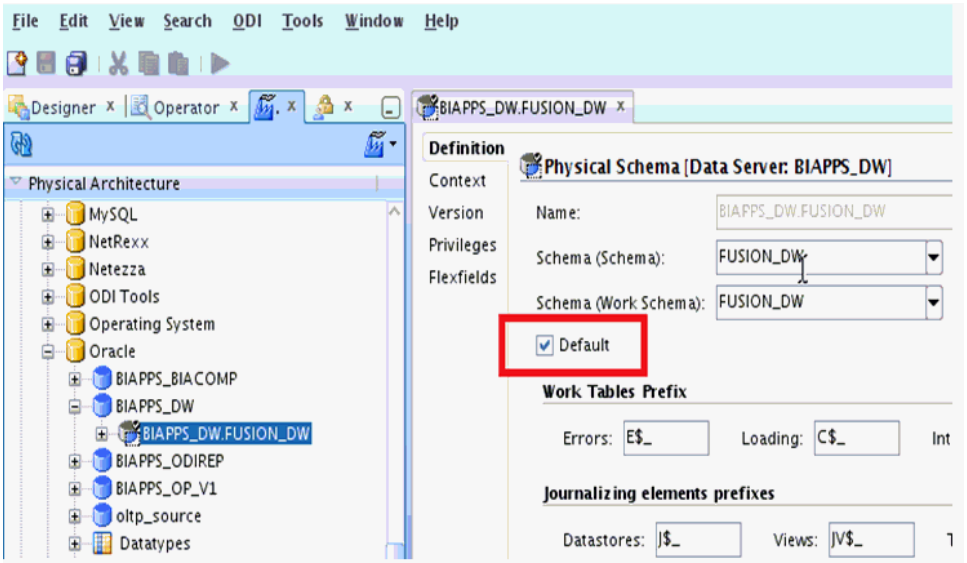
Note: The physical server name is the one that you specified in the Configuration Manager user interface when you registered the source.

g. Verify the associated physical schema. Navigate to the Flexfields tab and verify that the **DATASOURCE_NUM_ID** flexfield is set to the value you originally assigned. This value of the `DATASOURCE_NUM_ID` must match the value in Configuration Manager for this source connection.



h. Open the corresponding logical schema and verify that the **DATASOURCE_NUM_ID** flexfield is also set with the same value.

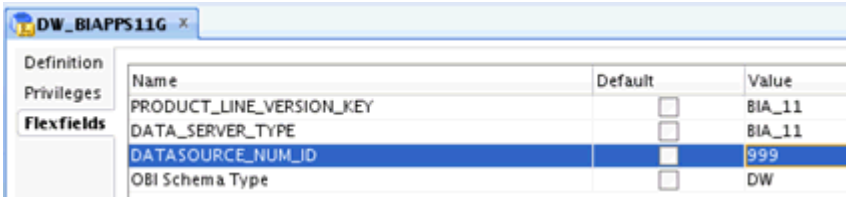




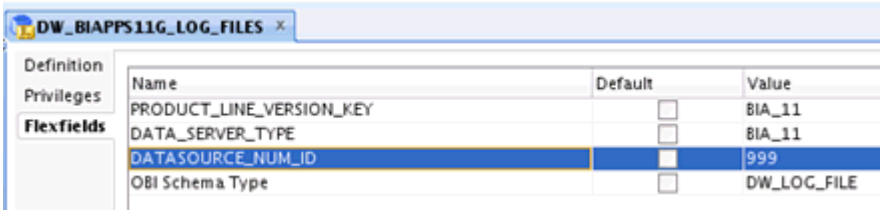
i. Verify that the following logical schemas have the correct Data Source Num ID value set in the **DATASOURCE_NUM_ID** flexfield:

   If you do not see 999 values for all these logical schemas, then set it with 999 values.

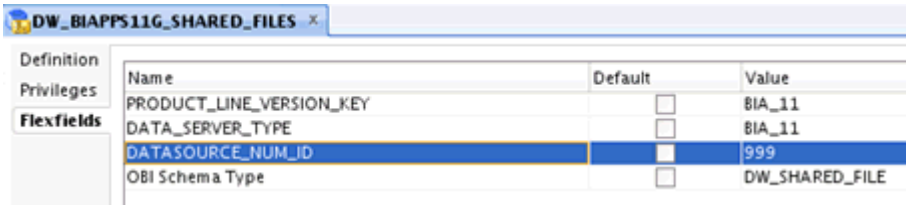
   - `DW_BIAPPS11G`



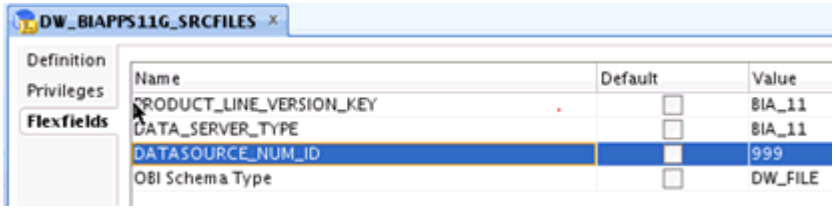
   - `DW_BIAPPS11G_LOG_FILES`



- DW_BIAPPS11G_SHARED_FILES



- DW_BIAPPS11G_SRCFILES

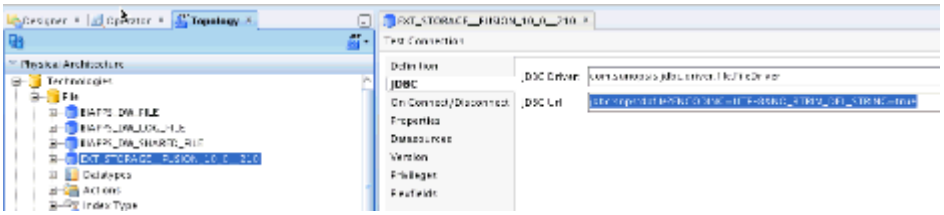


j. Ensure that all the registered file technology data servers have the following property in their JDBC url:

`NO_RTRIM_DEL_STRING=true`

If not , then add this property to the end of the JDBC url as shown below:

`jdbc:snps:dbfile?ENCODING=UTF-8&NO_RTRIM_DEL_STRING=true`

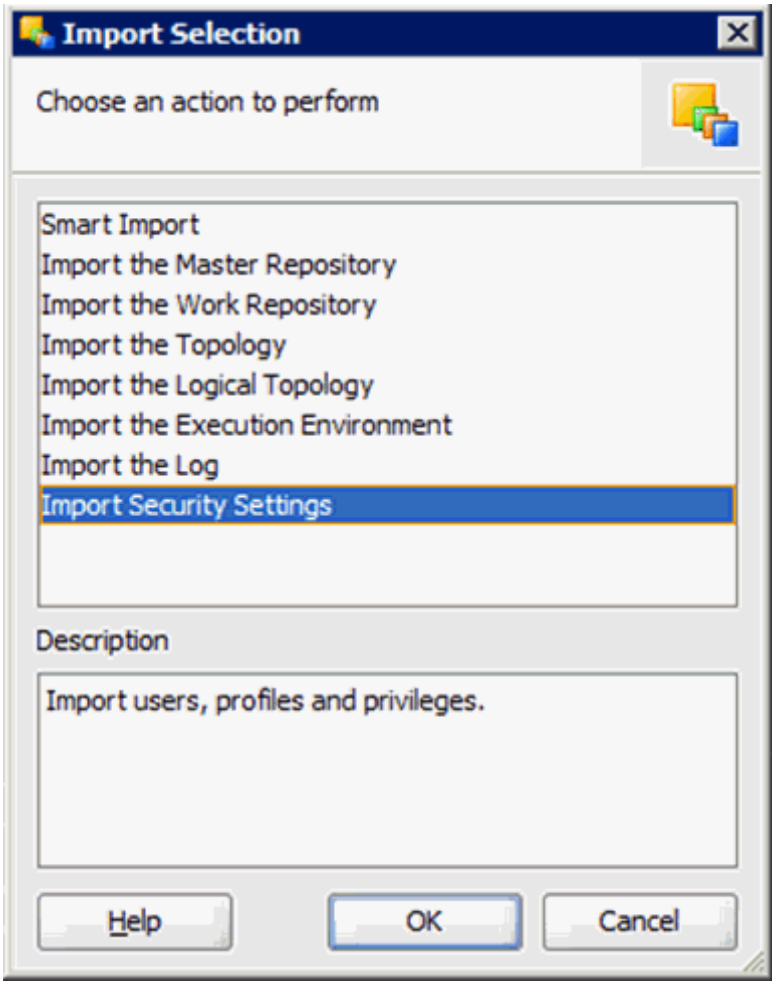


3. Import the Security settings that you exported while exporting security settings. Import the Security settings using the **Insert** and **Update** options as follows:

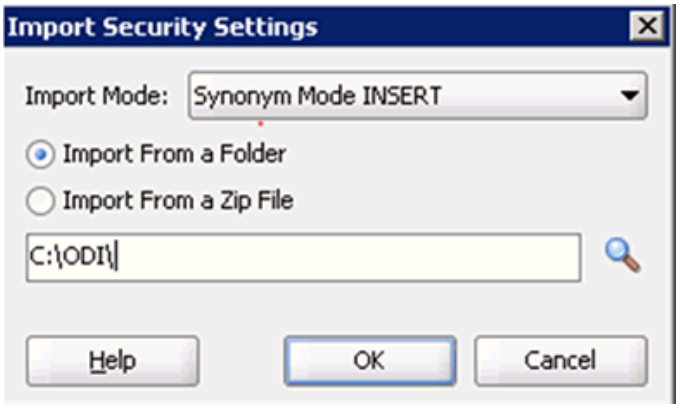
a. Import new security objects as follows:

i. In the Topology tab, from the **Connect Navigator** (Topology icon drop-down on the top right side of the navigator pane), select **Import**.

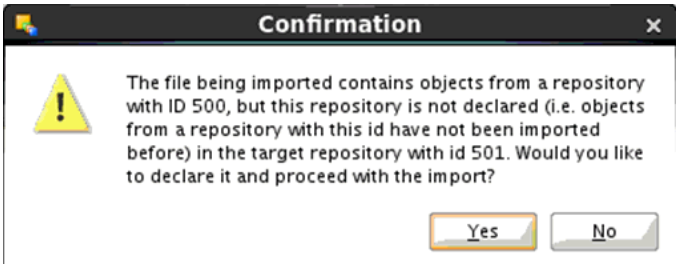
ii. In the Import Selection dialog, select **Import Security Settings**.



iii. In the Import Security Settings dialog, select **Synonym Mode INSERT** for the Import Mode. Select the **Import from a Folder** radio button. Enter the directory location to which you had exported the Security settings while exporting security and click **OK**.



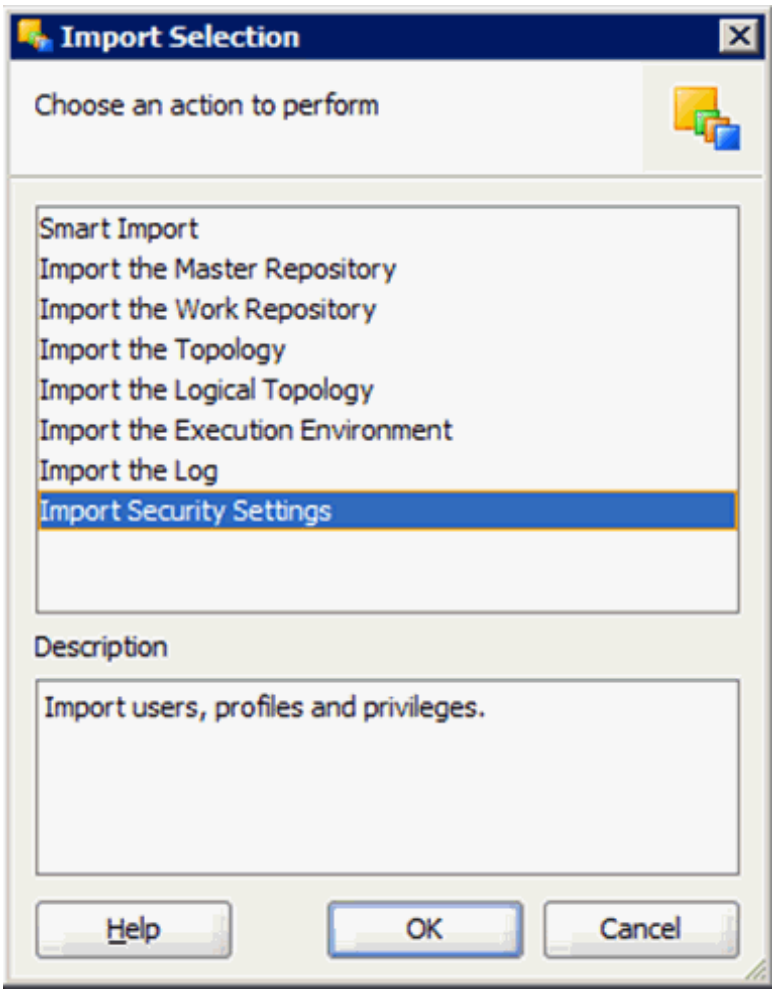
iv. Click **Yes** in the Confirmation dialog.



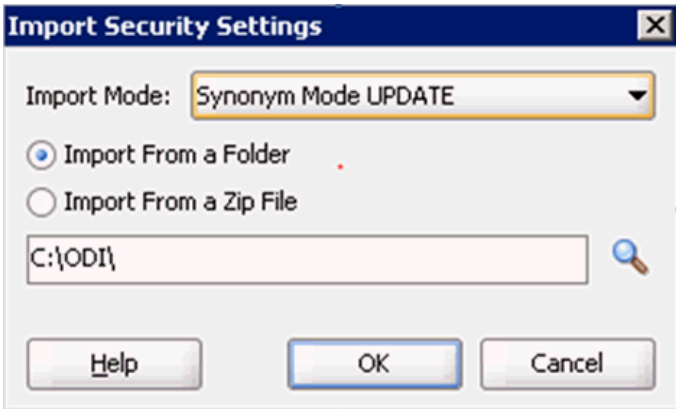
b. Update the existing security objects as follows:

i. In the Topology tab, from the **Connect Navigator** (Topology icon drop-down on the top right side of the navigator pane), select **Import**.

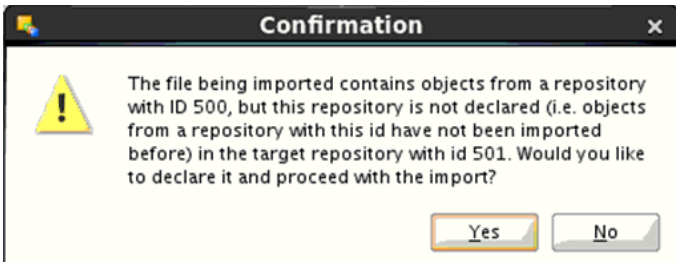
ii. In the Import Selection dialog, select **Import Security Settings**.



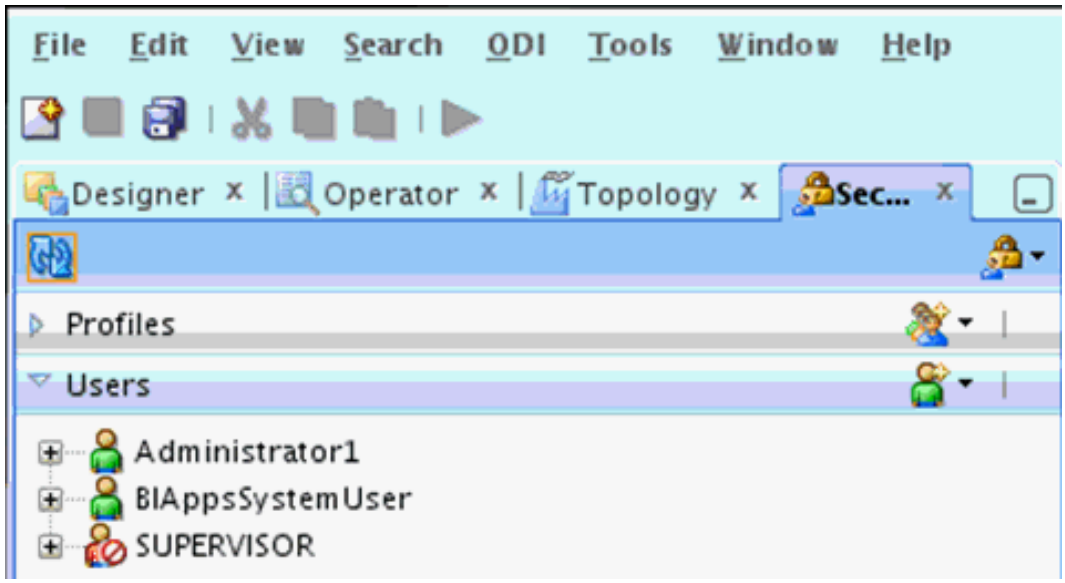
iii. In the Import Security Settings dialog, select **Synonym Mode UPDATE** for the update Mode. Select the **Import from a Folder** radio button. Enter the directory location to which you had exported the Security settings while exporting security settings and click **OK**.



iv. Click **Yes** in the Confirmation dialog.



After the import is complete, the SUPERVISOR user may no longer be enabled. To ensure that you can still connect to the ODI repository in case of any issues, you should enable this user by ensuring that the **Supervisor** property is set and this user does not have an expiration date. Once external authentication is complete, you can log in with another administrative user and disable the Supervisor user.



c. Restart the ODI Managed Server using Oracle WebLogic Server Administration Console.

Once logged out of ODI Studio, you will have to log in with the administrative user configured in the prior ODI repository. For example, if your administrative

user that you previously used to connect to the pre-upgrade ODI repository was named Administrator1, then you would log in with this user. To enable this user for external authentication, see Reconfiguring External Authentication .

Running Scripts by Connecting to the Upgraded ODI Repository Schema

As part of the upgrade, you must run scripts by connecting to your upgraded ODI repository (11.1.1.10.2) schema.

Once you are done with importing the topology and the security settings backup files, run the below two scripts one by one and then run the script `$ORACLE_HOME/dwtools/scripts/REL10_REL11_Upgrade_BIACMProvInODI.py`.

Script 1

```
BEGIN
EXECUTE IMMEDIATE 'DELETE FROM SNP_PSCHEMA_CONT WHERE I_PSCHEMA IN(SELECT
I_PSCHEMA FROM SNP_PSCHEMA WHERE I_CONNECT IN ( SELECT  I_CONNECT FROM
SNP_CONNECT WHERE CON_NAME LIKE ''BIAPPS_BIACOMP%''))';
EXECUTE IMMEDIATE 'DELETE  FROM SNP_PSCHEMA WHERE I_CONNECT IN ( SELECT
I_CONNECT FROM SNP_CONNECT WHERE CON_NAME LIKE ''BIAPPS_BIACOMP%'')';
EXECUTE IMMEDIATE 'DELETE FROM SNP_CONNECT WHERE CON_NAME LIKE
''BIAPPS_BIACOMP%''';
COMMIT;
END;
```

(Optional) Use sections to add and organize related content if another section heading is needed.

Script 2

```
UPDATE SNP_FF_VALUEM SET SHORT_TXT_VALUE ='BIACM_IO' WHERE FF_CODE =
'LS_SCHEMA_TYPE' AND I_OBJECTS = 2100 AND I_INSTANCE = (SELECT I_LSCHEMA FROM
SNP_LSCHEMA  WHERE LSCHEMA_NAME= 'CM_BIAPPS11G');
@ COMMIT;
```

Script 3

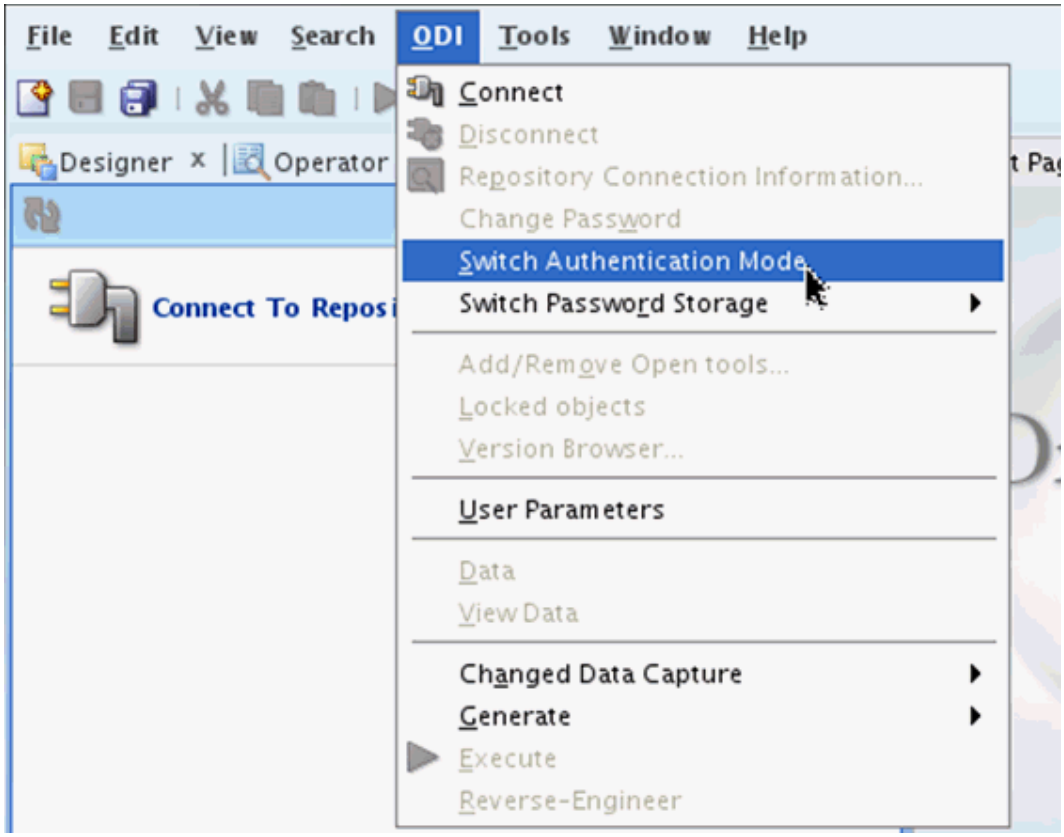
```
UPDATE SNP_MTXT MT SET MT.FULL_TXT='jdbc:snps:dbfile?
ENCODING=UTF-8'||'&'||'NO_RTRIM_DEL_STRING=true' WHERE MT.I_TXT IN  (SELECT
MT1.I_TXT FROM SNP_CONNECT CN INNER JOIN SNP_MTXT MT1 ON
MT1.I_TXT=CN.I_TXT_JAVA_URL AND
CN.JAVA_DRIVER='com.sunopsis.jdbc.driver.file.FileDriver' INNER JOIN SNP_TECHNO TH
ON CN.I_TECHNO=TH.I_TECHNO AND TH.TECH_INT_NAME='FILE');
COMMIT;
```

Reconfiguring External Authentication

To log in to the ODI repository as the administrative user, you need to configure the ODI repository for Oracle BI Applications 11.1.1.10.2 for external authentication.

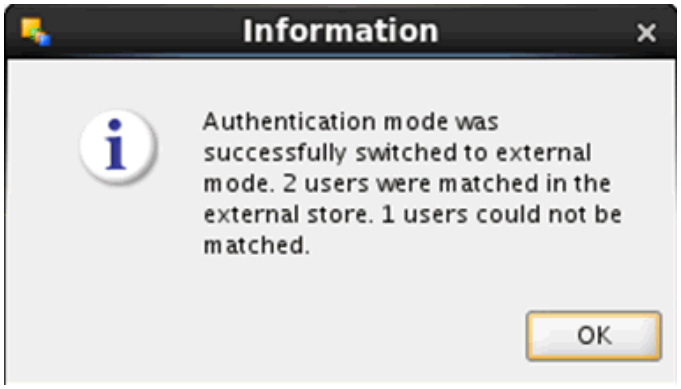
To reconfigure for external authentication:

1. Disconnect from the ODI repository by selecting the **ODI** menu and then the **Disconnect "Login Name"** option.
2. From the **ODI** menu, select the **Switch Authentication Mode** option.



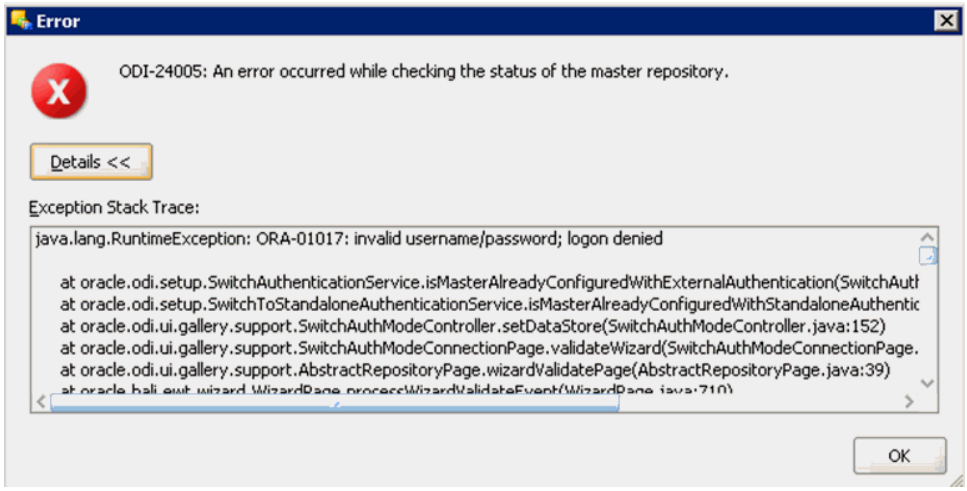
3. Enter the database connection details on the Login screen. Click **Next**.
4. On the Credentials screen, click **Finish**.

The following Information dialog is displayed to indicate that the repository was successfully switched to external authentication. You should see at least two users are matched. Note that the SUPERVISOR user defined in ODI will not be matched to anything in the security store.



You can now connect to ODI using externally authenticated users; for example, the BI Applications Administrator User.

If you receive the following error when switching to external authentication, then you have not configured the security files required for external authentication on the instance of ODI Studio you are using:



To configure user access, see Configuring User Access for ODI Studio , *Oracle Business Intelligence Applications Installation Guide*.

5. If required, create a connection in ODI Studio to the ODI repository for 11.1.1.10.1. The repository is set to external authentication. The credentials you use to connect to the repository are those of the BI Applications Administrator user.

6. You should now connect as this user and disable access for the SUPERVISOR user.

Note: When switching from ODI internal to FMW security, make sure that the ODI users had no expiry dates (including SUPERVISOR). If users had expiry dates, then change the expiry dates and make sure none of the users were disabled, after doing the security import.

Regenerating Load Plans

Load Plans that were originally generated in the ODI Repository for 11.1.1.10.1 do not exist in the ODI Repository for 11.1.1.10.2.

The steps to transfer content from the 11.1.1.10.1 repository to the 11.1.1.10.2 repository do not include transferring the original load plans. The load plans will not reflect any changes introduced as part of the upgrade, hence you need to generate a new load plan.

Configuration Manager retains the load plan definitions on upgrade even though any metadata associated with this load plan that was stored in ODI is no longer available. Use these existing definitions in Configuration Manager to regenerate load plans including Domains Only Load Plans. Note that any tasks that had previously executed pre-upgrade will execute in incremental mode post-upgrade while any new tasks that may be introduced in the generated load plan will initially execute in full mode.

To regenerate load plans:

1. Log into Configuration Manager as the BI Applications Administrator user.
2. Navigate to **Manage Load Plans**.
3. Regenerate all load plans including the Domains-Only load plans.

   See Configuration Manager online help for the Manage Load Plans screen and Generating Load Plans, *Oracle Business Intelligence Applications ETL Guide*.

Importing and Applying ETL Customizations

After you upgrade the data warehouse table definitions and data, you need to import the customizations into the post-upgrade repository.

For separate ODI repositories — Development (DEV), Testing (TEST), Production (PROD), you need to perform different steps to get the customizations into the post-upgrade DEV, TEST, or PROD repository. Assuming that only DEV is open to developers to make changes and TEST and PROD instances are locked down so content can only be migrated, the following summarizes the differences. Refer to the respective documents for the exact implementation of each step.

ODI Repository	Steps to Import Customizations
DEV	Customizations Imported using Regular Export/Import Pre-Upgrade Dev Repo • Export Custom Folders • Export Custom Datastores Post-Upgrade Dev Repo • Version Model • Version Model again • Import Custom Datastores • Import Custom Folders • Reapply Customizations • Generate Custom Scenarios • Apply Customizations to Generated Load Plan
DEV to TEST/PROD	Customizations Migrated using Smart Export/Import Post-Upgrade Dev Repo • Smart Export of Custom Folders Test/Prod Repo • Smart Import of Custom Folders

The following sections describe the process to import the customizations previously exported from the pre-upgrade repository into the post-upgrade DEV repository. To migrate the customizations from the DEV repository to TEST and PROD repositories, see My Oracle Support document (ID 1587872.1) titled *BI Applications 11.1.1.7.1– Migrating Configurations and Customizations from Development to a Test OR Production Environment*.

An important difference in the two processes is the use of Regular and Smart import. Smart import's default behavior is to overwrite the target while Regular import allows us to merge with the target. Smart import brings a lot of extra objects while Regular import just brings the objects you specified.

When moving from pre-upgrade to post-upgrade, you want to move only the customized objects. Using Smart import would bring almost all objects from the pre-upgrade repository and by default overwrite the objects in the post-upgrade repository. As the post-upgrade repository includes bug fixes and enhanced functionality, you would lose all of that and replace it with the legacy pre-upgrade objects. Regular import does not bring these extra objects with it.

When moving from DEV to TEST, the objects in the DEV repository should be replacing the objects in TEST as they represent the bug fixes and enhanced functionality. For migrating, use Smart Import to bring all objects as these objects should always take precedence and overwrite what is in the target.

Importing Datastores

You must import the datastores prior to importing the customized ETL tasks.

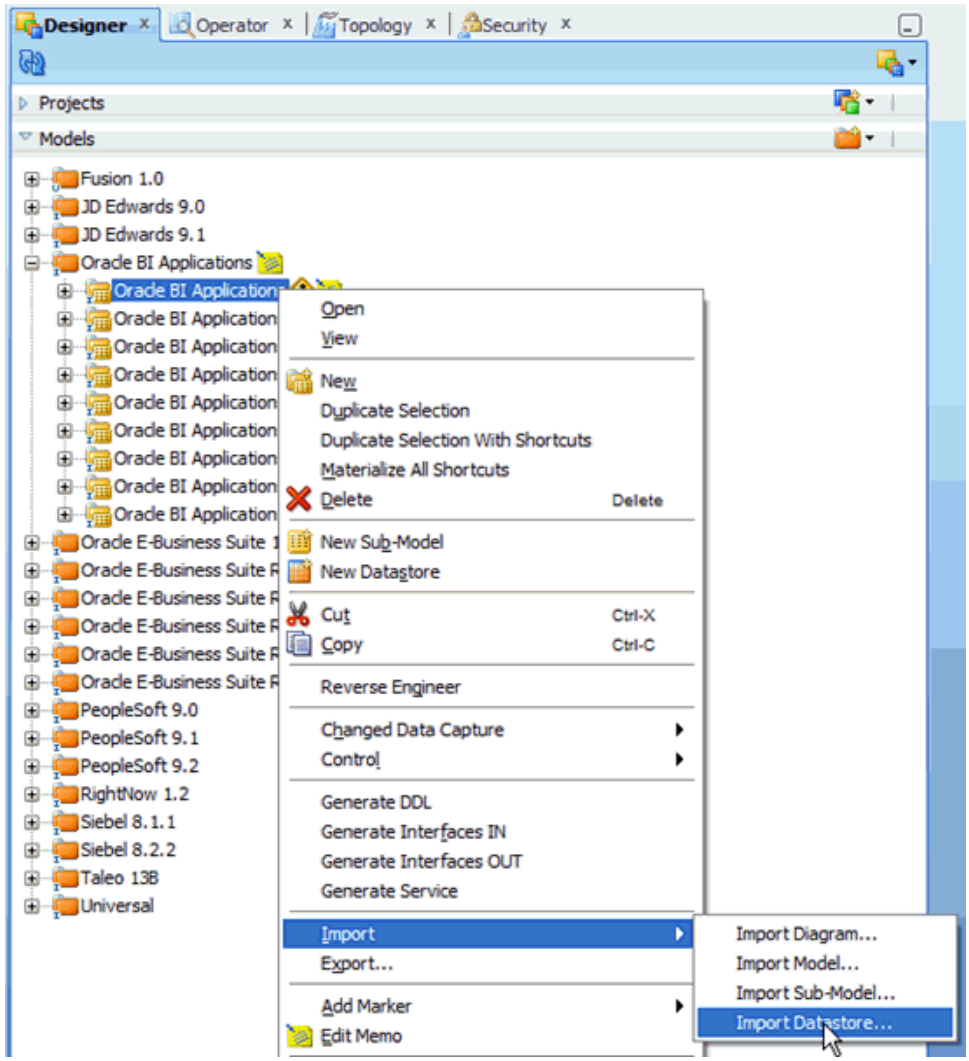
> **Note:** The following steps are implemented in the DEV repository only. To migrate changes to TEST and PROD repositories, see My Oracle Support document (ID 1587872.1) titled *BI Applications 11.1.1.7.1 – Migrating Configurations and Customizations from Development to a Test OR Production Environment*.

To import the customizations:

1. Launch the ODI Studio client and connect to the ODI Repository for Oracle BI Applications 11.1.1.10.2.
2. Click **Designer**, click **Models**, click **Oracle BI Applications** (folder), and select **Oracle BI Applications (Model)**.
3. Create original and custom versions of the model.
   a. Right-click the model, select **Version** and then select **Create Version**. Create an initial version.
   b. Perform these steps again to create the version with customizations.

   Once the second version is complete, the two versions will match. However, after the customizations are imported, the two will no longer match. The original version reflects the out-of-the-box datastores while the new version reflects the merged datastores, allowing comparison between the two.
4. Import the customized datastores.
   a. Right-click the **Oracle BI Applications model**.

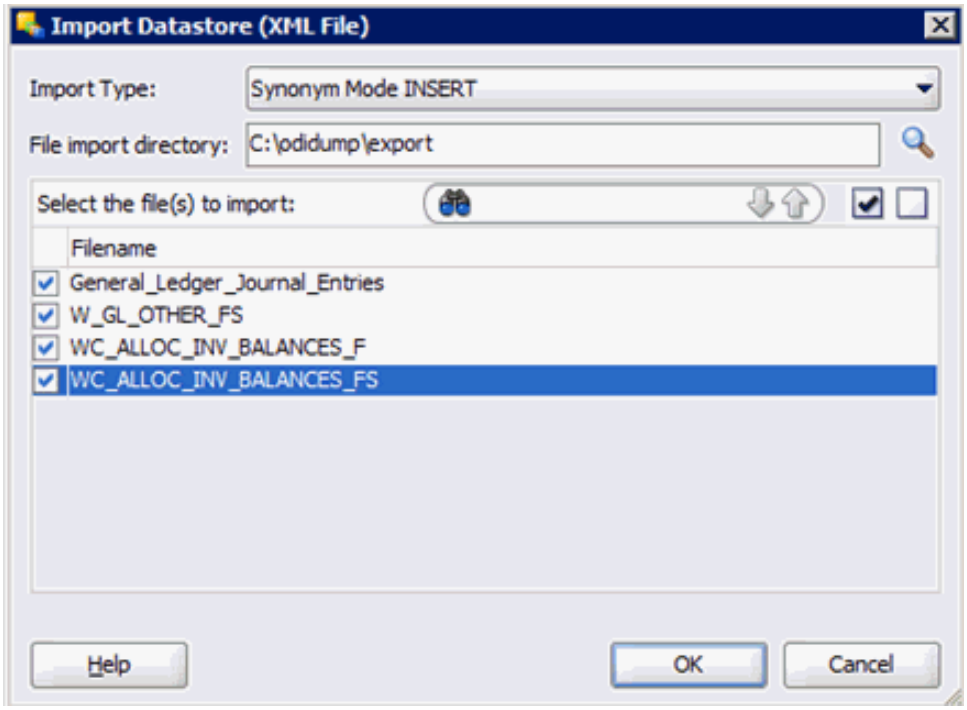
b. Select the **Import** and the **Import Datastore** option.



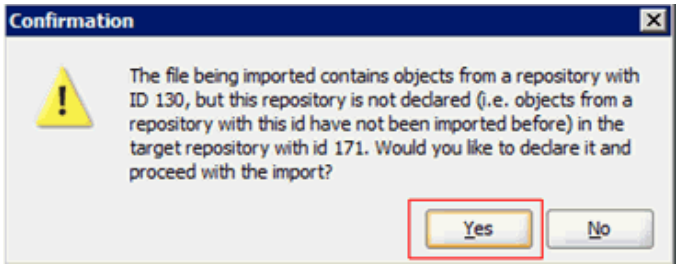
c. In the Import Datastore window, ensure that **Import Type** is **Synonym Mode INSERT**. The Update mode will update existing columns to reflect their pre-upgrade state while Insert/Update mode will delete columns that were introduced in the upgrade repository but do not exist in the pre-upgrade repository.

d. Navigate to the directory where you previously exported the custom datastores.

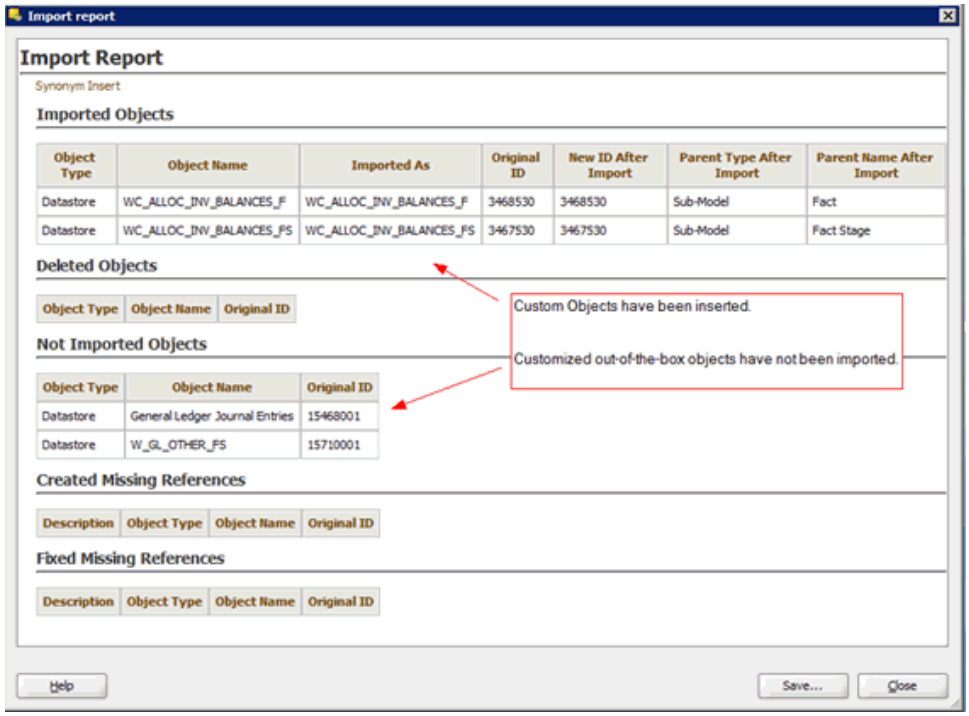
e. Select the check boxes for each datastore to be imported and click **OK**.



If prompted to declare the repository ID and continue with the import, select **Yes**. You may see this prompt multiple times, click **Yes** each time.

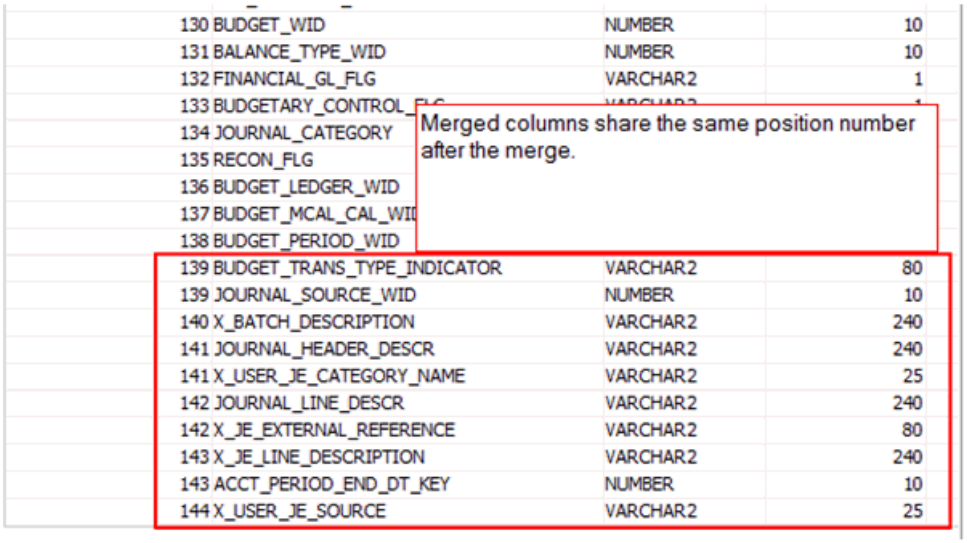


When the import completes, you should see a summary report similar to the following.



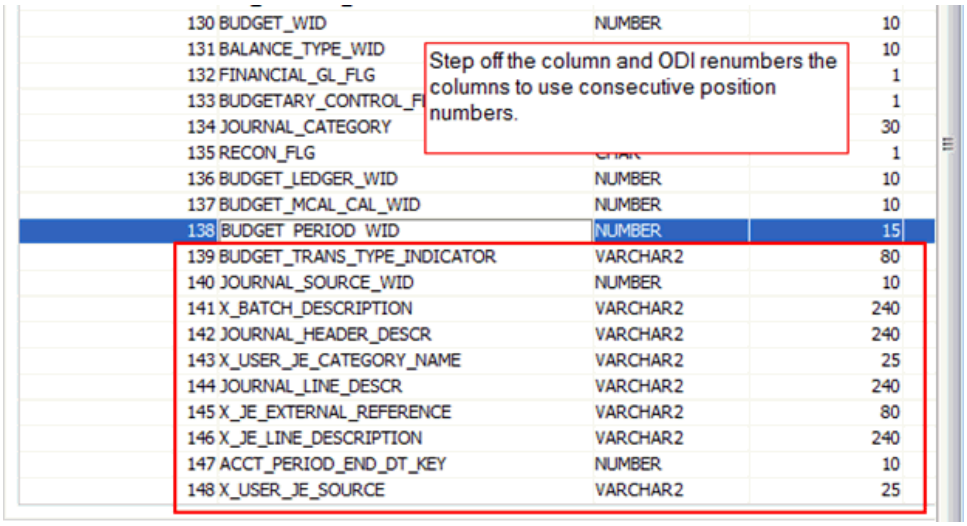
The upgrade datastores will now be merged with the pre-upgrade customizations.

f. Review the customized out-of-the-box datastores that have been imported by navigating to the Columns tab.



In INSERT mode, the custom columns are imported into the datastore. In the 11.1.1.10.1 repository, these are usually the last columns. In the 11.1.1.10.2 repository, Oracle may have added columns and these will have a conflicting position ID, or a column simply may have moved between 11.1.1.10.1 and 11.1.1.10.2. These columns will appear to have the same position number but this does not cause any issues. As an optional step, you can have ODI recalculate the position numbers.

g. Double-click on any column in the datastore. Without making any changes, now select another column. ODI will automatically recalculate the position numbers. Save the datastore.

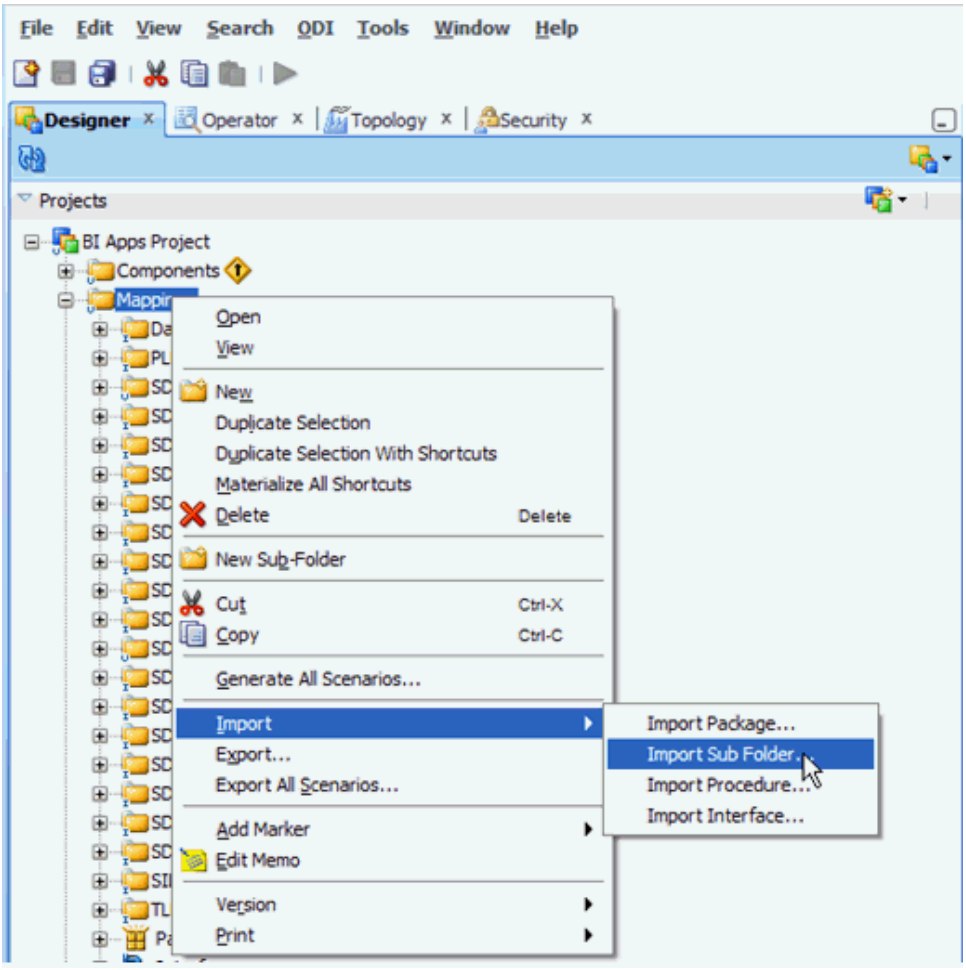


Importing Customized ETL tasks

Use these instructions to import the customized ETL tasks.

To import the customized ETL tasks:

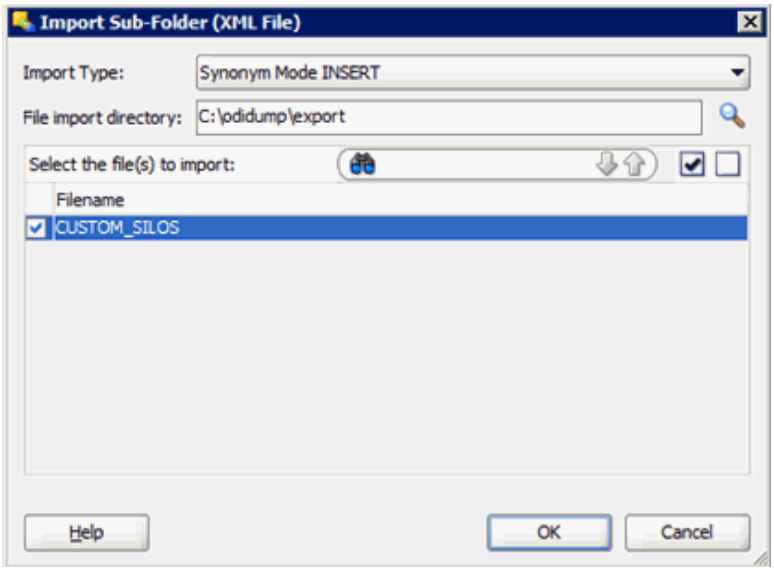
1. Launch the ODI Studio client and connect to the ODI Repository for Oracle BI Applications 11.1.1.10.2.
2. Click **Designer**, click **Projects**, click **BI Apps Project**, and select **Mappings**.
3. Right click **Mappings** and select **Import…** and then **Import Sub Folder…**.



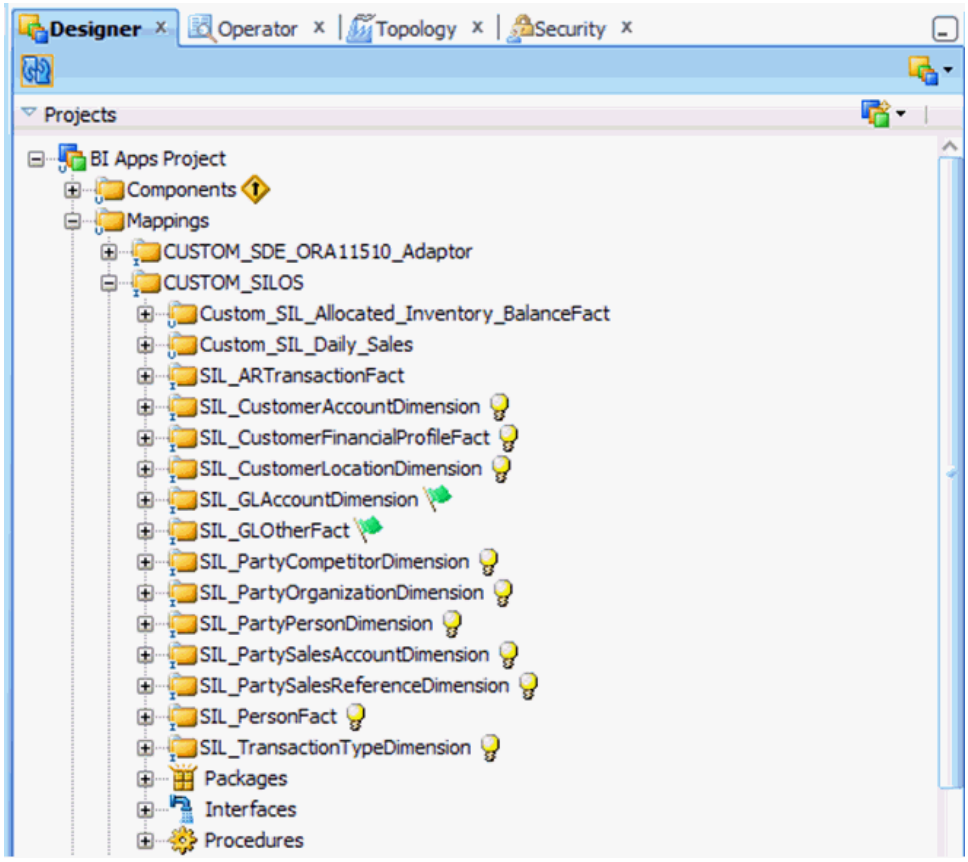
4. In the Import Sub-Folder window, ensure **Import Type** is **Synonym Mode INSERT**.

5. Navigate to the directory where you previously exported the custom folders.

6. Select the check boxes for each folder to be imported and click **OK**.



When the import completes, you can see your custom folder and its corresponding customized objects.

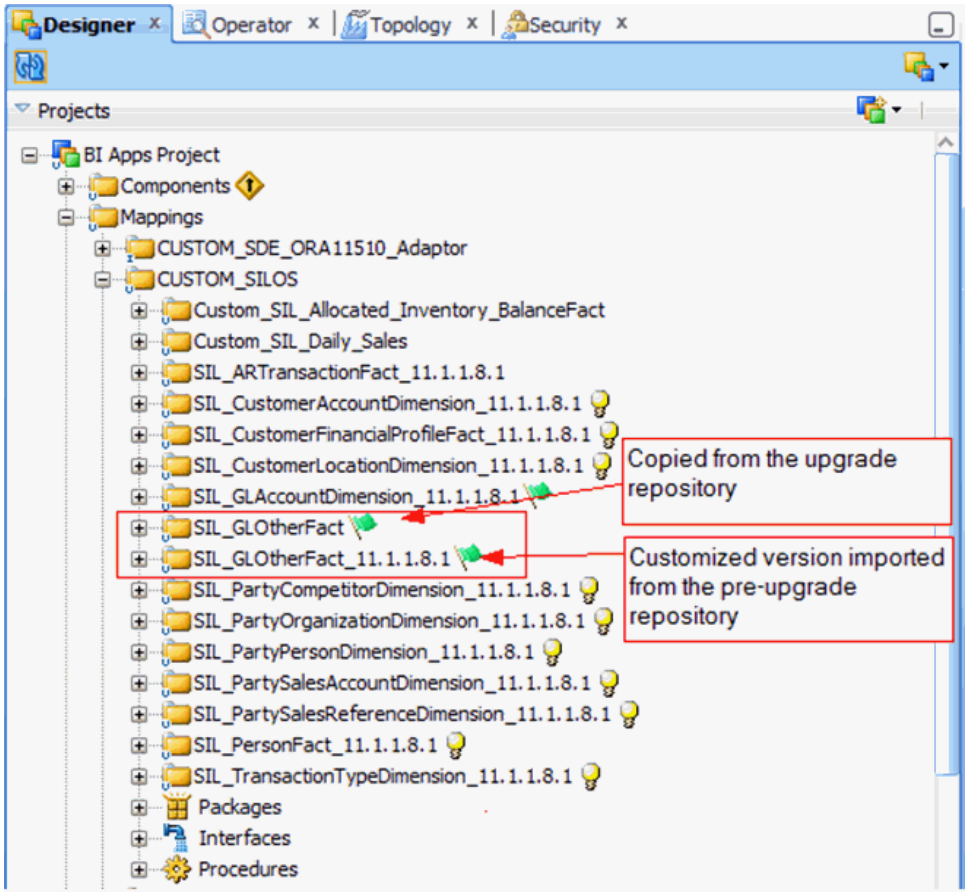


Merge any customizations with any changes that may have been introduced in the upgrade repository. For example, a column may have been added to a table that was customized (as in the `W_GL_OTHER_F` example earlier) or bug fixes applied or content otherwise changed by Oracle.

There is no automatic merge mechanism available. The customized ETL tasks must be inspected for changes and the changes manually incorporated into the other. The recommended approach is to re-copy the ETL task and re-apply the customizations to this new copy. Because you are familiar with the changes you have made, it is easier to incorporate these into the new copy rather than figure out the changes Oracle made and incorporate those into your original copy.

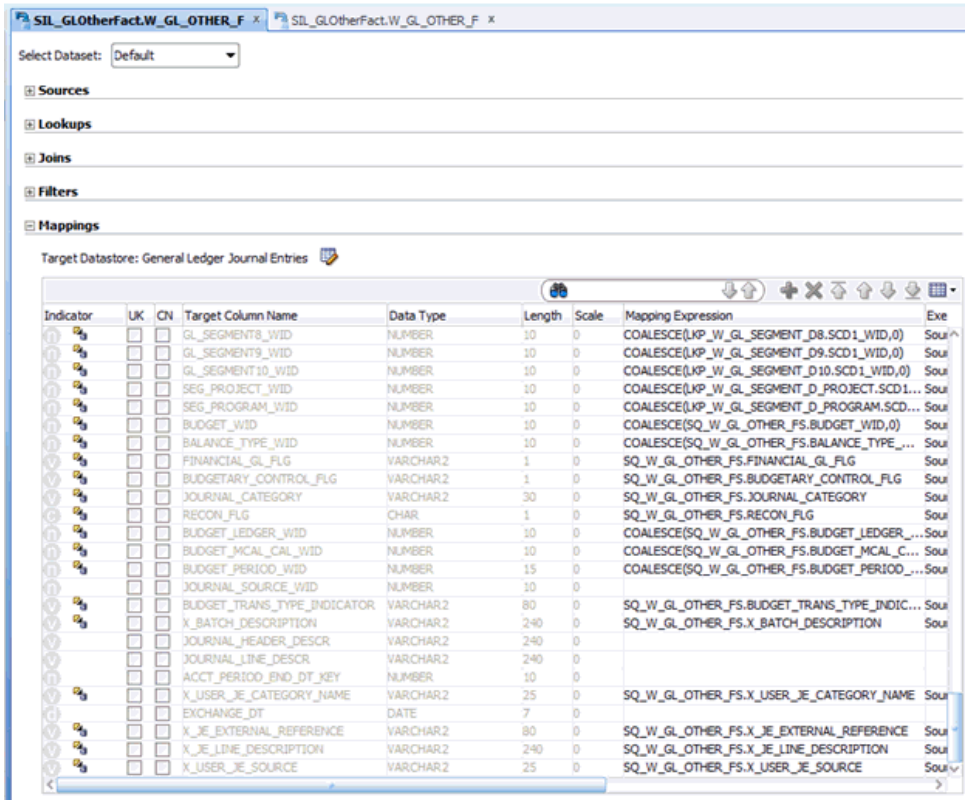
7. Rename the customized ETL task to reflect the pre-upgrade version it was based on.

8. Duplicate the ETL task per the customization methodology and move to the **Custom** folder.



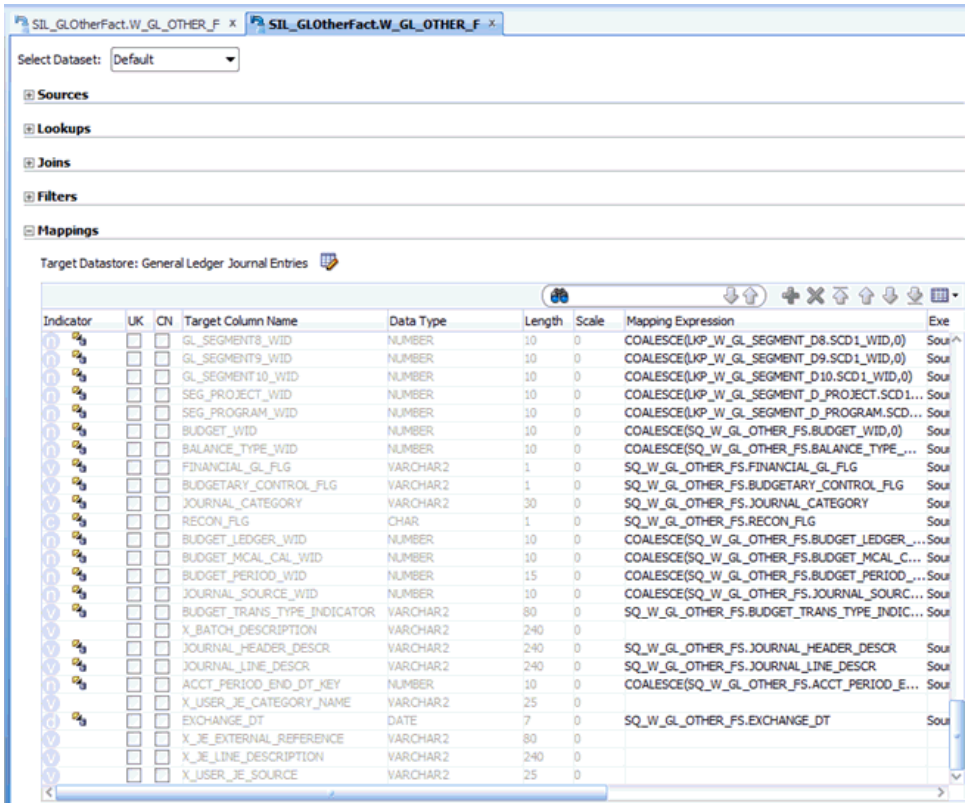
9. Inspect the customized ETL task. The custom columns are populated but any new columns introduced by Oracle are not.

   Below is an example of a customized interface. Make a note of the customizations made.



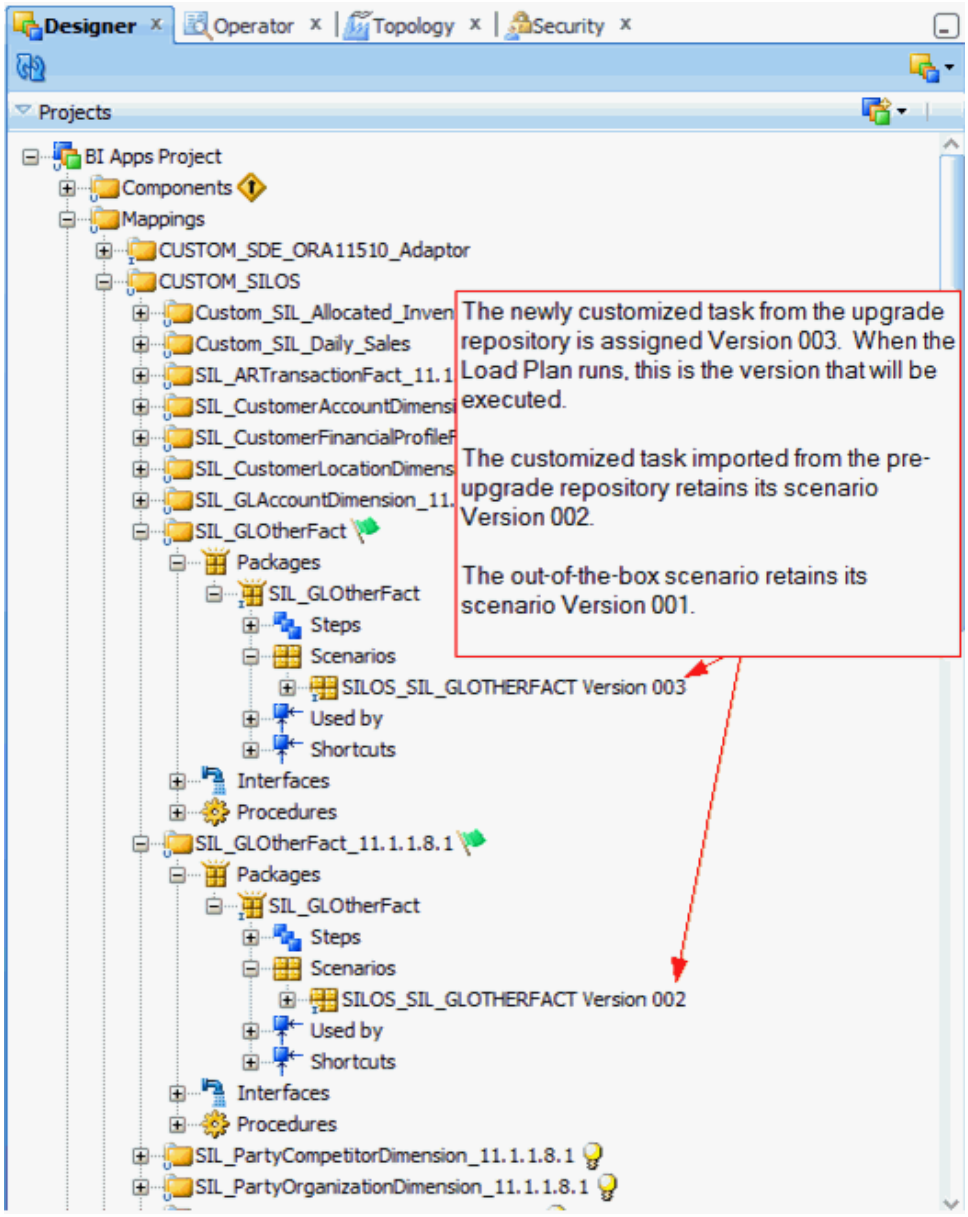
Below is the copied interface where the new columns introduced by Oracle are populated but the custom columns are not.

10. Apply the customizations noted previously in this interface.



11. Generate a Scenario for the newly customized ETL task.

Ensure the Scenario Name matches the out-of-the-box Scenario Name but use a Version Number that is larger than any previously used Version Number. The BI Apps Load Plans are configured to run the scenario with the largest number. By retaining the same scenario name and assigning the largest scenario version number, you do not have to make any changes to the load plan.



12. Apply customizations to the generated load plans as per the Customization methodology.

3

Oracle Business Analytics Warehouse Schema and Data Upgrades

This section outlines the steps to upgrade warehouse schema and data from 11.1.1.10.1 to 11.1.1.10.2.

Before performing the steps outlined in this section of the document, you must have completed all steps described in BI Applications Infrastructure, Metadata, and Schema Upgrades.

Before starting the Upgrade process from Oracle BI Applications 11.1.1.10.1 to 11.1.1.10.2, you must have executed at least one incremental run in addition to a full data load in your Oracle BI Applications 11.1.1.10.1 environment.

Topics

- Performing Pre-Upgrade Tasks
- Granting New Required Privileges to <prefix>_DW
- Upgrading Business Analytics Warehouse Schema and Data
- Performing Post-Upgrade Tasks
- Running the Source Upgrade Load Plan

Performing Pre-Upgrade Tasks

There are no pre-upgrade tasks that you need to perform.

Granting New Required Privileges to <prefix>_DW

Oracle BI Applications 11.1.1.10.2 requires that the `<prefix>_DW` schema/user be granted the `CREATE JOB` privilege.

Work with your Database Administrator to grant the following:

- `GRANT CREATE JOB` to `<prefix>_DW` schema/user.

You must grant this privilege before you can execute the Upgrade Load Plans described later in this section.

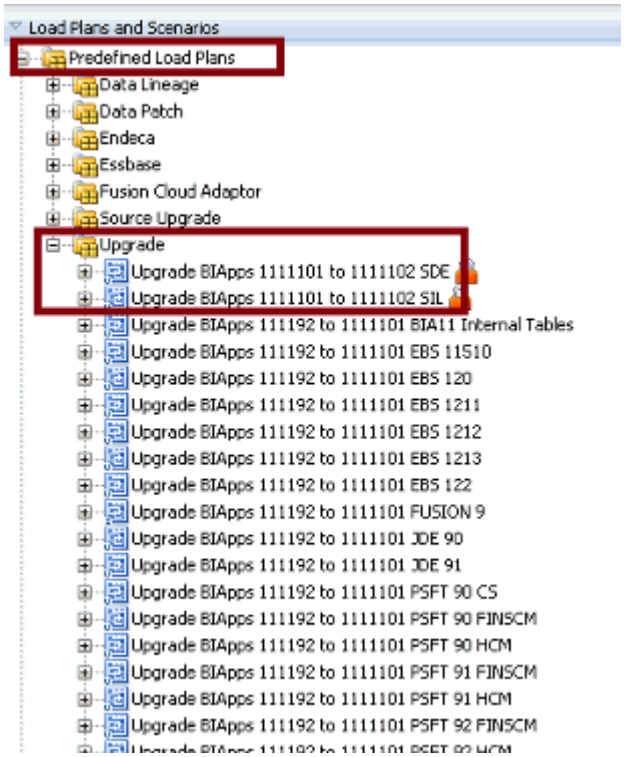
Upgrade Oracle Business Analytics Warehouse Schema and Data

Use these instructions to upgrade the Oracle Business Analytics Warehouse schema and data.

From BI APPS Release 11.1.1.10.2 onwards, there are only 2 upgrade Load plans irrespective of the source. However if you want to upgrade from the version prior to 11.1.1.10.1, you have to perform the upgrade to 11.1.1.10.1 by using the `Upgrade`

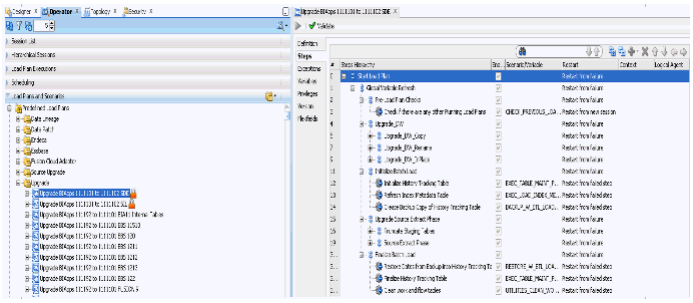
`BIApps 1111101 to 1111102 SDE` and `Upgrade BIApps 1111101 to 1111102 SIL` upgrade procedures.

1. Navigate to the Upgrade folder in the Predefined Load Plans folder under Load Plans and Scenarios Navigation of Designer Navigator.

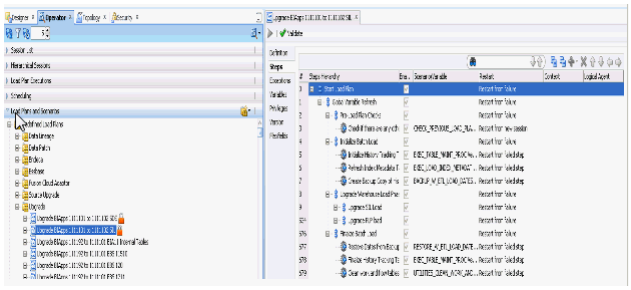


2. Execute the respective the Load plan.

   - If you are upgrading from BIApps 1111101 to 1111102 SDE, then execute the Upgrade SDE LP component by executing the load plan.



   - If you are upgrading from BIApps 1111101 to 1111102 SIL, then execute the Upgrade SIL LP component by executing the load plan.



Performing Post-Upgrade Tasks

Run an incremental load in the upgraded warehouse to complete the warehouse data upgrade steps.

Running the Source Upgrade Load Plan

You can run BI Applications with a particular source version, such as Fusion 10 or 11. That source version might be upgraded, such as from Fusion 10 to Fusion 11. When a source upgrade occurs, the regular data load plan detects the upgrade in the source version and logs an entry in the source version history tracking table. After the regular data load plan logs an entry into the source version history tracking table, you see a source version detection message that requests you to run the Source Upgrade Load Plan.

Instead of running the Source Upgrade Load Plan, you can reset the data warehouse, register the source, and perform a full load plan. You will want to run the Source Upgrade Load Plan if you need to use the existing data to the extent possible without forcing a load of the entire data warehouse.

You can run the Source Upgrade Load Plan in these upgrade scenarios:

- Fusion Adaptor
  - Fusion 9 to Fusion 10
  - Fusion 10 to Fusion 11
- Taleo Adaptor
  - Taleo 14A to Taleo 15A
  - Taleo 14B to Taleo 15A

Before running the Source Upgrade Load Plan, deactivate the load plan schedules. Do not manually run any load plans while running the Source Upgrade Load Plan.

To run the Source Upgrade Load Plan:

1. Run a script on the sources to ensure that all ODI connections that have been pointing to logical schemas in the previous Fusion release now point to logical schemas in the upgraded Fusion release. The DSN remains the same.

   Run the `UpgradePLV` script to rewire PLV in the Configuration Manager.

   Usage

   ```
   UpgradePLV.ksh <oracle home> <username> <password> <dns> <PLV code> [<hostname>
   <port number>]
    <oracle home>: Oracle Home
   ```

```
    <username>: Administrator username
    <password>: Administrator password
         <dns>: DNS of source instance which need to be upgraded
    <PLV code>: Upgrade PLV code
    <hostname>: Hostname of server where the Configuration Manager server is
running (Optional, default: localhost)
 <port number>: Port number where the Configuration Manager server is running
(Optional, default: 9704)
```

Example On Linux

```
cd /scratch/kdinaman/work/mw3607/Oracle_BI1/biapps/admin/provisioning/update
/bin/ksh UpgradePLV.ksh /scratch/kdinaman/work/mw3607/Oracle_BI1 Administrator1
Admin12345 205 FUSION_9_0
```

Example On Windows

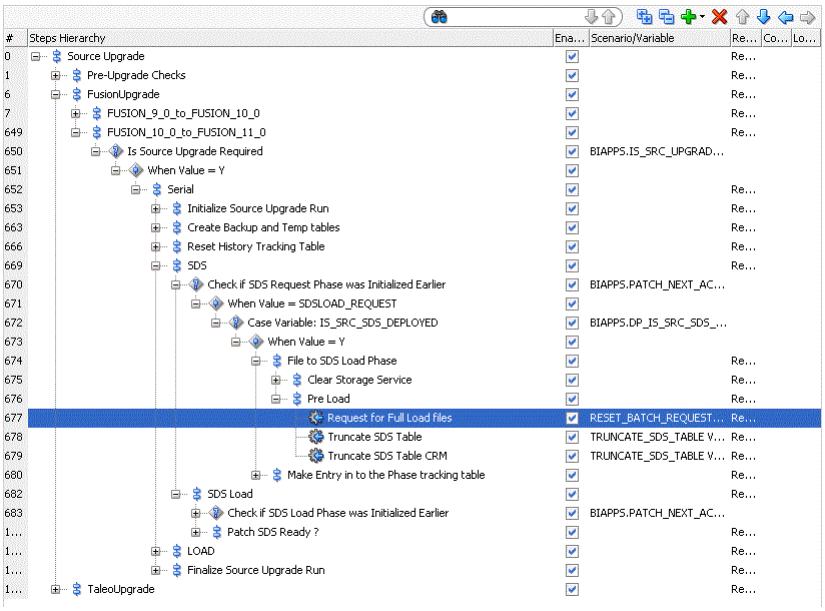
```
cd C:\work\mw3607\Oracle_BI1\biapps\admin\provisioning\update
UpgradePLV.bat C:\work\mw3607\Oracle_BI1 Administrator1  Admin12345 205 FUSION_9_0
```

2. Regenerate the load plan to ensure that the plan has scenarios or steps that correspond to the upgraded source release.

3. In the upgraded repository, select **Pre-Defined Load Plans**, then **Source Upgrade** to run the Source Upgrade Load Plan that synchronizes the tables and data with the metadata in the current BI Applications release.

4. If the Fusion source is in the cloud, then place the full request files on the UCM/ Storage Service for any VOs that are being reloaded as part of the Source Upgrade Load Plan using either of the following steps:

   a. Navigate to **Request for Full Load files** (the following figure displays the navigation path) by selecting **Source Upgrade**, **FusionUpgrade**, **FUSION_9_0_to_FUSION_10_0** or **FUSION_10_0_to_FUSION_11_0** , **Is Source Upgrade Required**, **Serial**, **SDS**, **File to SDS Load Phase**, and **Pre Load**. On the Fusion Applications side, select **Request for Full Load files** for those VOs that are included in the Cloud Table list parameter for that step.



b. Run the Request for Full Load Files step in the load plan to generate the BATCHREQUEST file that needs to be uploaded to the UCM/Storage Service. Then run a single extract with the Fusion Applications Extractor. The extract downloads the BATCHREQUEST file and provides a full file for the VOs that are present in the BATCHREQUEST file.

To verify that the Source Upgrade Load Plan ran successfully:

1. View the context and ensure that all the physical Fusion Connections are mapped to logical schemas in the upgraded Fusion release. Nothing should be mapped to schemas in the previous Fusion release.
2. Ensure that the DSN in the upgraded Fusion release is the same DSN as in the previous Fusion release.
3. In the Generated Load Plan, ensure that all scenarios correspond to the upgraded Fusion release and not to the previous Fusion release.
4. In the W_ETL_LOAD_DATES table, ensure that the entries correspond to the upgraded Fusion release and not to the previous Fusion release.
5. Ensure that all existing load plan schedules are moved to the newly generated load plans.

A

New ETL Content in Oracle BI Applications 11.1.1.10.2

New ETL content in Oracle BI Applications 11.1.1.10.2 is described in these topics.

Topics

- Financials
- Procurement and Spend
- Manufacturing
- Supply Chain Management
- Human Capital Management

Financials

New ETL content in Financials after the upgrade from 11.1.1.10.1 to 11.1.1.10.2 is listed in this topic.

Payables (AP)

Following are the upgrade changes:

1. Tables truncated or records deleted:
   - `W_AP_XACT_FS` (truncated)
   - `W_AP_XACT_F` (deleted and inserted)
2. New columns included in base fact:

   NA
3. Tables with records added:

   NA
4. Metrics calculated differently:

   NA
5. Issues and bug fixes covered:

Enhancement/Bug	Impacted warehouse object	Impacted adapters
To update the Validation Status (VALD_STATUS_WID) BUG 21923351 INCLUDE FTS_FUSION_FSCMTOPMODELAM_FINAPINVTRANSACTIONSAM_INVOICEHEADERPVO IN LP	W_AP_XACT_F	Fusion

6. New attributes:

   NA

7. Data model changes:

   NA

Receivables (AR)

Following are the upgrade changes:

1. Tables truncated or records deleted:

   NA

2. New columns added in base fact:

   NA

3. Tables with records added:

   `W_XACT_TYPE_D` (where `INTEGRATION_ID` like `['ACCT_DOC~RECEIVABLE~CASH APPLICATION~EDISC','ACCT_DOC~RECEIVABLE~CASH APPLICATION~UNEDISC']`)

   `W_AR_XACT_F`

   Will extract the new discount distributions EDISC,UNEDISC where INTEGRATION_ID like 'R~%'

4. Metrics calculated differently:

   AR Discount related metrics

5. Issues and bug fixes:

Enhancement/Bug	Impacted warehouse object	Impacted adapters
BUG 20651741 REL11-Discounts are seen to be multiplying based on AR Distributions	W_XACT_TYPE_D W_AR_XACT_F	Fusion R12xx

6. New Attributes:L

   NA

7. Data Model Change:

   NA

General Ledger (GL)

Following are the upgrade changes:

1. Tables truncated or records deleted:

   - W_GL_LINKAGE_INFORMATION_GS

2. New columns included in base fact:

   NA

3. Tables with records added:

   Inserted Fusion Apps specific application id '10036' to W_GL_LINKAGE_INFORMATION_G

4. Metrics calculated differently:

   NA

5. Issues and bug fixes covered:

Enhancement/Bug	Impacted warehouse object	Impacted adapters
Bug 22199884 - OTBI-E V3: SOURCE_DISTRIBUTION_ID not correctly populated for Project Rev rows Bug 20525667 - Error in logic for DISTRIBUTION_SOURCE and SOURCE_DISTRIBUTION_ID in linkage	W_GL_LINKAGE_INFORMATION_G	Fusion

6. New attributes:

   NA

7. Data model changes:

   NA

COGS/Profitability/Revenue

Following are the upgrade changes:

1. Tables truncated or records deleted:

   NA

2. New columns included in base fact:

   NA

3. Tables with records added:

   NA

4. Metrics calculated differently:

   NA

5. Issues and bug fixes:

Enhancement/Bug	Impacted warehouse object	Impacted adapters
Bug 21490311 - FIN R10: INIT: PSR: SDE_ORA_GLREVENUEFACT session failed with ORA-12899	W_GL_REVN_FS W_GL_REVN_F W_GL_REVN_RECON_FS W_GL_REVN_REV_RECON_FS	ALL

6. New attributes:

   NA

7. Data model changes

   Change the data type of column SALES_ORDER_DOC from varchar2(30) to varchar2(50) in the following tables:

   - W_GL_REVN_FS
   - W_GL_REVN_F
   - W_GL_REVN_RECON_FS
   - W_GL_REVN_REV_RECON_FS

Fixed Asset (FA)

The following are the upgrade changes:

1. Tables truncated or records deleted:

   NA

2. New columns included in base fact:

   NA

3. Tables with records added:

   NA

4. Metrics calculated differently:

   NA

5. Issues and bug fixes covered:

Enhancement/Bug	Impacted warehouse object	Impacted adapters
Bug 22888791 - REL11.1:EBS122:INCR:SIL_FIXEDASSETLEASEPAYMENTFACT-Invalid number	W_FA_LEASE_PAYMENT_F W_FA_LEASE_PAYMENT_FS	ALL

6. New attributes:

   NA

7. Data model changes:

   a. Table: W_FA_LEASE_PAYMENT_F : Change data type of following columns from VARCHAR2(10 CHAR) to NUMBER(28,10)

      - LOC_EXCHANGE_RATE
      - GLOBAL1_EXCHANGE_RATE
      - GLOBAL2_EXCHANGE_RATE
      - GLOBAL3_EXCHANGE_RATE

   b. Table: W_FA_LEASE_PAYMENT_FS : Change data type of the columns LOC_EXCHANGE_RATE from VARCHAR2(10 CHAR) to NUMBER(28,10)

Procurement and Spend

New ETL content in Procurement and Spend after the upgrade from 11.1.1.10.1 to 11.1.1.10.2 is listed in this topic.

Purchase Order

Issues and bug fixes covered:

PeopleSoft 9.1 onwards:

- Bug 21787402: COMPANY_ORG_WID in W_PURCH_COST_F has been incorrectly mapped as ROW_WID from W_INT_ORG_ID. This is a issue in data sourced from PSFT 9.1 and above. W_INT_ORG_ID .SCD1_WID should be mapped to the COMPANY_ORG_WID in W_PURCH_COST_F table.

Employee Expense

Issues and bug fixes covered:

Fusion (any release):

- Bug 22309222: SIL_ReasonDimension_ExpenseAdjReason_Delete_UPG. The purpose of this mapping is to delete records in W_REASON_D where the reason class is 'EXPENSE_ADJUSTMENT_REASON'. Existing Fusion SDE and SIL maps to make a full load of W_REASON_D and W_EXPENSE_F.

Manufacturing

New ETL content in Manufacturing after the upgrade from 11.1.1.10.1 to 11.1.1.10.2 is listed in this topic.

Manufacturing Resource Dimension

1. Tables with records updated:
   - W_MFG_RESOURCE_D
2. Issues and bug fixes covered:

   EBusiness Suite (any version):
   - Bug 22301353: Updated EXPENDITURE_TYPE_CODE column value to '__UNASSIGNED__' where the value was 'EXPENDITURE_TYPE~'.

Supporting Award Dimension for existing Facts

1. Tables with records updated:
   - W_PROJ_AWARD_F
   - W_PROJ_COMMITMENT_F
   - W_PROJ_COST_LINE_F
   - W_PROJ_FORECAST_F
   - W_PROJ_REVENUE_LINE_F
2. Issues and bug fixes covered:

   PeopleSoft (any version):
   - Bug 22301363: AWARD_WID is updated for existing records in above 5 facts tables.

Supply Chain Management

New ETL content in Supply Chain Management after the upgrade from 11.1.1.10.1 to 11.1.1.10.2 is listed in this topic.

Changes after the Upgrade

1. Tables truncated and reloaded:

   NA
2. Tables with records updated / populated:
   - W_PRODUCT_LOT_XACT_FS.batch_number
   - W_PRODUCT_XACT_A.LOC_MATERIAL_AMT
3. Tables with data model changes:

   NA

4. Metrics calculated differently (metadata repository calculation-wise) or added newly:

   NA

5. New features introduced:

   NA

6. Issues and bug fixes covered:

   - BUG 21802966 - Qty are doubled in Material Usage Variance by Product Report

     Apply max function on the transaction_id column of MTL_MATERIAL_TRANSACTIONS table

   - BUG 22090483 - RFA: Not able to populate batch_number in W_PRODUCT_XACT_F table.

     Batch_number column is not mapped in base table w_product_lot_xact_fs etl and so it's not getting carried in subsequent etls.

   - Bug 21338791 - RFA: LOC_EXCHANGE_RATE null in W_PRODUCT_LOT_XACT_FS

     LOC_EXCHANGE_RATE attribute was not mapped in the interface - SDE_ORA_ProductLotTransactionFact_Process.W_PRODUCT_LOT_XACT_FS.

   - Bug 22023753 - Issue in Multiple WIP "Issue" Transaction

     Apply max function on the Last_update_date column of MTL_MATERIAL_TRANSACTIONS table

Human Capital Management

New ETL content in Human Capital Management after the upgrade from 11.1.1.10.1 to 11.1.1.10.2 is listed in this topic.

1. The following new tables have been added to support Fusion Flexfields:

   - W_HR_ASG_CNTRCT_ADDL_D
   - W_HR_ASG_CNTRCT_ADDL_DS
   - W_HR_PERLEG_ADDL_D
   - W_HR_PERLEG_ADDL_DS
   - W_HR_PERLEG_CSHP_ADDL_D
   - W_HR_PERLEG_CSHP_ADDL_DS
   - W_HR_PERLEG_NM_ADDL_D
   - W_HR_PERLEG_NM_ADDL_DS
   - W_HR_PERLEG_VISA_ADDL_D
   - W_HR_PERLEG_VISA_ADDL_DS
   - W_HR_PERSON_ADDL_D

- W_HR_PERSON_ADDL_DS
- W_HR_PERSON_PTU_ADDL_D
- W_HR_PERSON_PTU_ADDL_DS
- W_JOB_FMLY_ADDL_D
- W_JOB_FMLY_ADDL_DS
- W_PAY_PAYROLL_ADDL_D
- W_PAY_PAYROLL_ADDL_DS
- W_WRKFC_EVNTRSN_ADDL_D
- W_WRKFC_EVNTRSN_ADDL_DS
- W_WRKFC_EVNT_ADDL_D
- W_WRKFC_EVNT_ADDL_DS

2. The following new tables have been added in the Recruitment module for Taleo:
   - W_JOB_APPLICATION_D
   - W_JOB_APPLICATION_DS
   - W_RCRTMNT_CANDIDATE_ADDL_D
   - W_RCRTMNT_CANDIDATE_ADDL_DS
   - W_RCRTMNT_CANDIDATE_D
   - W_RCRTMNT_CANDIDATE_DS
   - W_JOB_RQSTN_ADDL_D
   - W_JOB_RQSTN_ADDL_DS
   - W_TLO_VETERAN_STATUS_PS
3. The following columns have been added to support Flexfields in Fusion:

Table Name	Column Name
W_HR_ASSIGN_ADDL_D	ASSIGNMENT_ATTR100_CHAR
W_HR_ASSIGN_ADDL_D	ASSIGNMENT_ATTR101_CHAR
W_HR_ASSIGN_ADDL_D	ASSIGNMENT_ATTR102_CHAR
W_HR_ASSIGN_ADDL_D	ASSIGNMENT_ATTR103_CHAR
W_HR_ASSIGN_ADDL_D	ASSIGNMENT_ATTR104_CHAR
W_HR_ASSIGN_ADDL_D	ASSIGNMENT_ATTR105_CHAR
W_HR_ASSIGN_ADDL_D	ASSIGNMENT_ATTR106_CHAR
W_HR_ASSIGN_ADDL_D	ASSIGNMENT_ATTR107_CHAR

Table Name	Column Name
W_HR_ASSIGN_ADDL_D	ASSIGNMENT_ATTR108_CHAR
W_HR_ASSIGN_ADDL_D	ASSIGNMENT_ATTR109_CHAR
W_HR_ASSIGN_ADDL_D	ASSIGNMENT_ATTR110_CHAR
W_HR_ASSIGN_ADDL_D	ASSIGNMENT_ATTR111_CHAR
W_HR_ASSIGN_ADDL_D	ASSIGNMENT_ATTR112_CHAR
W_HR_ASSIGN_ADDL_D	ASSIGNMENT_ATTR113_CHAR
W_HR_ASSIGN_ADDL_D	ASSIGNMENT_ATTR114_CHAR
W_HR_ASSIGN_ADDL_D	ASSIGNMENT_ATTR115_CHAR
W_HR_ASSIGN_ADDL_D	ASSIGNMENT_ATTR116_CHAR
W_HR_ASSIGN_ADDL_D	ASSIGNMENT_ATTR117_CHAR
W_HR_ASSIGN_ADDL_D	ASSIGNMENT_ATTR118_CHAR
W_HR_ASSIGN_ADDL_D	ASSIGNMENT_ATTR119_CHAR
W_HR_ASSIGN_ADDL_D	ASSIGNMENT_ATTR11_DATE
W_HR_ASSIGN_ADDL_D	ASSIGNMENT_ATTR120_CHAR
W_HR_ASSIGN_ADDL_D	ASSIGNMENT_ATTR12_DATE
W_HR_ASSIGN_ADDL_D	ASSIGNMENT_ATTR13_DATE
W_HR_ASSIGN_ADDL_D	ASSIGNMENT_ATTR14_DATE
W_HR_ASSIGN_ADDL_D	ASSIGNMENT_ATTR15_DATE
W_HR_ASSIGN_ADDL_D	ASSIGNMENT_ATTR16_DATE
W_HR_ASSIGN_ADDL_D	ASSIGNMENT_ATTR17_DATE
W_HR_ASSIGN_ADDL_D	ASSIGNMENT_ATTR18_DATE
W_HR_ASSIGN_ADDL_D	ASSIGNMENT_ATTR19_DATE
W_HR_ASSIGN_ADDL_D	ASSIGNMENT_ATTR20_DATE
W_HR_ASSIGN_ADDL_D	ASSIGNMENT_ATTR21_DATE
W_HR_ASSIGN_ADDL_D	ASSIGNMENT_ATTR21_NUM
W_HR_ASSIGN_ADDL_D	ASSIGNMENT_ATTR22_DATE
W_HR_ASSIGN_ADDL_D	ASSIGNMENT_ATTR22_NUM
W_HR_ASSIGN_ADDL_D	ASSIGNMENT_ATTR23_DATE
W_HR_ASSIGN_ADDL_D	ASSIGNMENT_ATTR23_NUM

Table Name	Column Name
W_HR_ASSIGN_ADDL_D	ASSIGNMENT_ATTR24_DATE
W_HR_ASSIGN_ADDL_D	ASSIGNMENT_ATTR24_NUM
W_HR_ASSIGN_ADDL_D	ASSIGNMENT_ATTR25_DATE
W_HR_ASSIGN_ADDL_D	ASSIGNMENT_ATTR25_NUM
W_HR_ASSIGN_ADDL_D	ASSIGNMENT_ATTR26_DATE
W_HR_ASSIGN_ADDL_D	ASSIGNMENT_ATTR26_NUM
W_HR_ASSIGN_ADDL_D	ASSIGNMENT_ATTR27_DATE
W_HR_ASSIGN_ADDL_D	ASSIGNMENT_ATTR27_NUM
W_HR_ASSIGN_ADDL_D	ASSIGNMENT_ATTR28_DATE
W_HR_ASSIGN_ADDL_D	ASSIGNMENT_ATTR28_NUM
W_HR_ASSIGN_ADDL_D	ASSIGNMENT_ATTR29_DATE
W_HR_ASSIGN_ADDL_D	ASSIGNMENT_ATTR29_NUM
W_HR_ASSIGN_ADDL_D	ASSIGNMENT_ATTR30_DATE
W_HR_ASSIGN_ADDL_D	ASSIGNMENT_ATTR30_NUM
W_HR_ASSIGN_ADDL_D	ASSIGNMENT_ATTR31_CHAR
W_HR_ASSIGN_ADDL_D	ASSIGNMENT_ATTR31_DATE
W_HR_ASSIGN_ADDL_D	ASSIGNMENT_ATTR31_NUM
W_HR_ASSIGN_ADDL_D	ASSIGNMENT_ATTR32_CHAR
W_HR_ASSIGN_ADDL_D	ASSIGNMENT_ATTR32_DATE
W_HR_ASSIGN_ADDL_D	ASSIGNMENT_ATTR32_NUM
W_HR_ASSIGN_ADDL_D	ASSIGNMENT_ATTR33_CHAR
W_HR_ASSIGN_ADDL_D	ASSIGNMENT_ATTR33_DATE
W_HR_ASSIGN_ADDL_D	ASSIGNMENT_ATTR33_NUM
W_HR_ASSIGN_ADDL_D	ASSIGNMENT_ATTR34_CHAR
W_HR_ASSIGN_ADDL_D	ASSIGNMENT_ATTR34_DATE
W_HR_ASSIGN_ADDL_D	ASSIGNMENT_ATTR34_NUM
W_HR_ASSIGN_ADDL_D	ASSIGNMENT_ATTR35_CHAR
W_HR_ASSIGN_ADDL_D	ASSIGNMENT_ATTR35_DATE
W_HR_ASSIGN_ADDL_D	ASSIGNMENT_ATTR35_NUM

Table Name	Column Name
W_HR_ASSIGN_ADDL_D	ASSIGNMENT_ATTR36_CHAR
W_HR_ASSIGN_ADDL_D	ASSIGNMENT_ATTR36_DATE
W_HR_ASSIGN_ADDL_D	ASSIGNMENT_ATTR36_NUM
W_HR_ASSIGN_ADDL_D	ASSIGNMENT_ATTR37_CHAR
W_HR_ASSIGN_ADDL_D	ASSIGNMENT_ATTR37_DATE
W_HR_ASSIGN_ADDL_D	ASSIGNMENT_ATTR37_NUM
W_HR_ASSIGN_ADDL_D	ASSIGNMENT_ATTR38_CHAR
W_HR_ASSIGN_ADDL_D	ASSIGNMENT_ATTR38_DATE
W_HR_ASSIGN_ADDL_D	ASSIGNMENT_ATTR38_NUM
W_HR_ASSIGN_ADDL_D	ASSIGNMENT_ATTR39_CHAR
W_HR_ASSIGN_ADDL_D	ASSIGNMENT_ATTR39_DATE
W_HR_ASSIGN_ADDL_D	ASSIGNMENT_ATTR39_NUM
W_HR_ASSIGN_ADDL_D	ASSIGNMENT_ATTR40_CHAR
W_HR_ASSIGN_ADDL_D	ASSIGNMENT_ATTR40_DATE
W_HR_ASSIGN_ADDL_D	ASSIGNMENT_ATTR40_NUM
W_HR_ASSIGN_ADDL_D	ASSIGNMENT_ATTR41_CHAR
W_HR_ASSIGN_ADDL_D	ASSIGNMENT_ATTR41_NUM
W_HR_ASSIGN_ADDL_D	ASSIGNMENT_ATTR42_CHAR
W_HR_ASSIGN_ADDL_D	ASSIGNMENT_ATTR42_NUM
W_HR_ASSIGN_ADDL_D	ASSIGNMENT_ATTR43_CHAR
W_HR_ASSIGN_ADDL_D	ASSIGNMENT_ATTR43_NUM
W_HR_ASSIGN_ADDL_D	ASSIGNMENT_ATTR44_CHAR
W_HR_ASSIGN_ADDL_D	ASSIGNMENT_ATTR44_NUM
W_HR_ASSIGN_ADDL_D	ASSIGNMENT_ATTR45_CHAR
W_HR_ASSIGN_ADDL_D	ASSIGNMENT_ATTR45_NUM
W_HR_ASSIGN_ADDL_D	ASSIGNMENT_ATTR46_CHAR
W_HR_ASSIGN_ADDL_D	ASSIGNMENT_ATTR46_NUM
W_HR_ASSIGN_ADDL_D	ASSIGNMENT_ATTR47_CHAR
W_HR_ASSIGN_ADDL_D	ASSIGNMENT_ATTR47_NUM

Table Name	Column Name
W_HR_ASSIGN_ADDL_D	ASSIGNMENT_ATTR48_CHAR
W_HR_ASSIGN_ADDL_D	ASSIGNMENT_ATTR48_NUM
W_HR_ASSIGN_ADDL_D	ASSIGNMENT_ATTR49_CHAR
W_HR_ASSIGN_ADDL_D	ASSIGNMENT_ATTR49_NUM
W_HR_ASSIGN_ADDL_D	ASSIGNMENT_ATTR50_CHAR
W_HR_ASSIGN_ADDL_D	ASSIGNMENT_ATTR50_NUM
W_HR_ASSIGN_ADDL_D	ASSIGNMENT_ATTR51_CHAR
W_HR_ASSIGN_ADDL_D	ASSIGNMENT_ATTR51_NUM
W_HR_ASSIGN_ADDL_D	ASSIGNMENT_ATTR52_CHAR
W_HR_ASSIGN_ADDL_D	ASSIGNMENT_ATTR52_NUM
W_HR_ASSIGN_ADDL_D	ASSIGNMENT_ATTR53_CHAR
W_HR_ASSIGN_ADDL_D	ASSIGNMENT_ATTR53_NUM
W_HR_ASSIGN_ADDL_D	ASSIGNMENT_ATTR54_CHAR
W_HR_ASSIGN_ADDL_D	ASSIGNMENT_ATTR54_NUM
W_HR_ASSIGN_ADDL_D	ASSIGNMENT_ATTR55_CHAR
W_HR_ASSIGN_ADDL_D	ASSIGNMENT_ATTR55_NUM
W_HR_ASSIGN_ADDL_D	ASSIGNMENT_ATTR56_CHAR
W_HR_ASSIGN_ADDL_D	ASSIGNMENT_ATTR56_NUM
W_HR_ASSIGN_ADDL_D	ASSIGNMENT_ATTR57_CHAR
W_HR_ASSIGN_ADDL_D	ASSIGNMENT_ATTR57_NUM
W_HR_ASSIGN_ADDL_D	ASSIGNMENT_ATTR58_CHAR
W_HR_ASSIGN_ADDL_D	ASSIGNMENT_ATTR58_NUM
W_HR_ASSIGN_ADDL_D	ASSIGNMENT_ATTR59_CHAR
W_HR_ASSIGN_ADDL_D	ASSIGNMENT_ATTR59_NUM
W_HR_ASSIGN_ADDL_D	ASSIGNMENT_ATTR60_CHAR
W_HR_ASSIGN_ADDL_D	ASSIGNMENT_ATTR60_NUM
W_HR_ASSIGN_ADDL_D	ASSIGNMENT_ATTR61_CHAR
W_HR_ASSIGN_ADDL_D	ASSIGNMENT_ATTR61_NUM
W_HR_ASSIGN_ADDL_D	ASSIGNMENT_ATTR62_CHAR

Table Name	Column Name
W_HR_ASSIGN_ADDL_D	ASSIGNMENT_ATTR62_NUM
W_HR_ASSIGN_ADDL_D	ASSIGNMENT_ATTR63_CHAR
W_HR_ASSIGN_ADDL_D	ASSIGNMENT_ATTR63_NUM
W_HR_ASSIGN_ADDL_D	ASSIGNMENT_ATTR64_CHAR
W_HR_ASSIGN_ADDL_D	ASSIGNMENT_ATTR64_NUM
W_HR_ASSIGN_ADDL_D	ASSIGNMENT_ATTR65_CHAR
W_HR_ASSIGN_ADDL_D	ASSIGNMENT_ATTR65_NUM
W_HR_ASSIGN_ADDL_D	ASSIGNMENT_ATTR66_CHAR
W_HR_ASSIGN_ADDL_D	ASSIGNMENT_ATTR66_NUM
W_HR_ASSIGN_ADDL_D	ASSIGNMENT_ATTR67_CHAR
W_HR_ASSIGN_ADDL_D	ASSIGNMENT_ATTR67_NUM
W_HR_ASSIGN_ADDL_D	ASSIGNMENT_ATTR68_CHAR
W_HR_ASSIGN_ADDL_D	ASSIGNMENT_ATTR68_NUM
W_HR_ASSIGN_ADDL_D	ASSIGNMENT_ATTR69_CHAR
W_HR_ASSIGN_ADDL_D	ASSIGNMENT_ATTR69_NUM
W_HR_ASSIGN_ADDL_D	ASSIGNMENT_ATTR70_CHAR
W_HR_ASSIGN_ADDL_D	ASSIGNMENT_ATTR70_NUM
W_HR_ASSIGN_ADDL_D	ASSIGNMENT_ATTR71_CHAR
W_HR_ASSIGN_ADDL_D	ASSIGNMENT_ATTR71_NUM
W_HR_ASSIGN_ADDL_D	ASSIGNMENT_ATTR72_CHAR
W_HR_ASSIGN_ADDL_D	ASSIGNMENT_ATTR72_NUM
W_HR_ASSIGN_ADDL_D	ASSIGNMENT_ATTR73_CHAR
W_HR_ASSIGN_ADDL_D	ASSIGNMENT_ATTR73_NUM
W_HR_ASSIGN_ADDL_D	ASSIGNMENT_ATTR74_CHAR
W_HR_ASSIGN_ADDL_D	ASSIGNMENT_ATTR74_NUM
W_HR_ASSIGN_ADDL_D	ASSIGNMENT_ATTR75_CHAR
W_HR_ASSIGN_ADDL_D	ASSIGNMENT_ATTR75_NUM
W_HR_ASSIGN_ADDL_D	ASSIGNMENT_ATTR76_CHAR
W_HR_ASSIGN_ADDL_D	ASSIGNMENT_ATTR76_NUM

Table Name	Column Name
W_HR_ASSIGN_ADDL_D	ASSIGNMENT_ATTR77_CHAR
W_HR_ASSIGN_ADDL_D	ASSIGNMENT_ATTR77_NUM
W_HR_ASSIGN_ADDL_D	ASSIGNMENT_ATTR78_CHAR
W_HR_ASSIGN_ADDL_D	ASSIGNMENT_ATTR78_NUM
W_HR_ASSIGN_ADDL_D	ASSIGNMENT_ATTR79_CHAR
W_HR_ASSIGN_ADDL_D	ASSIGNMENT_ATTR79_NUM
W_HR_ASSIGN_ADDL_D	ASSIGNMENT_ATTR80_CHAR
W_HR_ASSIGN_ADDL_D	ASSIGNMENT_ATTR80_NUM
W_HR_ASSIGN_ADDL_D	ASSIGNMENT_ATTR81_CHAR
W_HR_ASSIGN_ADDL_D	ASSIGNMENT_ATTR82_CHAR
W_HR_ASSIGN_ADDL_D	ASSIGNMENT_ATTR83_CHAR
W_HR_ASSIGN_ADDL_D	ASSIGNMENT_ATTR84_CHAR
W_HR_ASSIGN_ADDL_D	ASSIGNMENT_ATTR85_CHAR
W_HR_ASSIGN_ADDL_D	ASSIGNMENT_ATTR86_CHAR
W_HR_ASSIGN_ADDL_D	ASSIGNMENT_ATTR87_CHAR
W_HR_ASSIGN_ADDL_D	ASSIGNMENT_ATTR88_CHAR
W_HR_ASSIGN_ADDL_D	ASSIGNMENT_ATTR89_CHAR
W_HR_ASSIGN_ADDL_D	ASSIGNMENT_ATTR90_CHAR
W_HR_ASSIGN_ADDL_D	ASSIGNMENT_ATTR91_CHAR
W_HR_ASSIGN_ADDL_D	ASSIGNMENT_ATTR92_CHAR
W_HR_ASSIGN_ADDL_D	ASSIGNMENT_ATTR93_CHAR
W_HR_ASSIGN_ADDL_D	ASSIGNMENT_ATTR94_CHAR
W_HR_ASSIGN_ADDL_D	ASSIGNMENT_ATTR95_CHAR
W_HR_ASSIGN_ADDL_D	ASSIGNMENT_ATTR96_CHAR
W_HR_ASSIGN_ADDL_D	ASSIGNMENT_ATTR97_CHAR
W_HR_ASSIGN_ADDL_D	ASSIGNMENT_ATTR98_CHAR
W_HR_ASSIGN_ADDL_D	ASSIGNMENT_ATTR99_CHAR
W_HR_ASSIGN_ADDL_D	EFFECTIVE_LATEST_CHANGE
W_HR_ASSIGN_ADDL_D	EFFECTIVE_SEQUENCE

Table Name	Column Name
W_HR_ASSIGN_ADDL_D	FLEX_DATA_FLG
W_HR_ASSIGN_ADDL_D	W_EFFECTIVE_LATEST_CHANGE
W_HR_ASSIGN_ADDL_DS	ASSIGNMENT_ATTR100_CHAR
W_HR_ASSIGN_ADDL_DS	ASSIGNMENT_ATTR101_CHAR
W_HR_ASSIGN_ADDL_DS	ASSIGNMENT_ATTR102_CHAR
W_HR_ASSIGN_ADDL_DS	ASSIGNMENT_ATTR103_CHAR
W_HR_ASSIGN_ADDL_DS	ASSIGNMENT_ATTR104_CHAR
W_HR_ASSIGN_ADDL_DS	ASSIGNMENT_ATTR105_CHAR
W_HR_ASSIGN_ADDL_DS	ASSIGNMENT_ATTR106_CHAR
W_HR_ASSIGN_ADDL_DS	ASSIGNMENT_ATTR107_CHAR
W_HR_ASSIGN_ADDL_DS	ASSIGNMENT_ATTR108_CHAR
W_HR_ASSIGN_ADDL_DS	ASSIGNMENT_ATTR109_CHAR
W_HR_ASSIGN_ADDL_DS	ASSIGNMENT_ATTR110_CHAR
W_HR_ASSIGN_ADDL_DS	ASSIGNMENT_ATTR111_CHAR
W_HR_ASSIGN_ADDL_DS	ASSIGNMENT_ATTR112_CHAR
W_HR_ASSIGN_ADDL_DS	ASSIGNMENT_ATTR113_CHAR
W_HR_ASSIGN_ADDL_DS	ASSIGNMENT_ATTR114_CHAR
W_HR_ASSIGN_ADDL_DS	ASSIGNMENT_ATTR115_CHAR
W_HR_ASSIGN_ADDL_DS	ASSIGNMENT_ATTR116_CHAR
W_HR_ASSIGN_ADDL_DS	ASSIGNMENT_ATTR117_CHAR
W_HR_ASSIGN_ADDL_DS	ASSIGNMENT_ATTR118_CHAR
W_HR_ASSIGN_ADDL_DS	ASSIGNMENT_ATTR119_CHAR
W_HR_ASSIGN_ADDL_DS	ASSIGNMENT_ATTR11_DATE
W_HR_ASSIGN_ADDL_DS	ASSIGNMENT_ATTR120_CHAR
W_HR_ASSIGN_ADDL_DS	ASSIGNMENT_ATTR12_DATE
W_HR_ASSIGN_ADDL_DS	ASSIGNMENT_ATTR13_DATE
W_HR_ASSIGN_ADDL_DS	ASSIGNMENT_ATTR14_DATE
W_HR_ASSIGN_ADDL_DS	ASSIGNMENT_ATTR15_DATE
W_HR_ASSIGN_ADDL_DS	ASSIGNMENT_ATTR16_DATE

Table Name	Column Name
W_HR_ASSIGN_ADDL_DS	ASSIGNMENT_ATTR17_DATE
W_HR_ASSIGN_ADDL_DS	ASSIGNMENT_ATTR18_DATE
W_HR_ASSIGN_ADDL_DS	ASSIGNMENT_ATTR19_DATE
W_HR_ASSIGN_ADDL_DS	ASSIGNMENT_ATTR20_DATE
W_HR_ASSIGN_ADDL_DS	ASSIGNMENT_ATTR21_DATE
W_HR_ASSIGN_ADDL_DS	ASSIGNMENT_ATTR21_NUM
W_HR_ASSIGN_ADDL_DS	ASSIGNMENT_ATTR22_DATE
W_HR_ASSIGN_ADDL_DS	ASSIGNMENT_ATTR22_NUM
W_HR_ASSIGN_ADDL_DS	ASSIGNMENT_ATTR23_DATE
W_HR_ASSIGN_ADDL_DS	ASSIGNMENT_ATTR23_NUM
W_HR_ASSIGN_ADDL_DS	ASSIGNMENT_ATTR24_DATE
W_HR_ASSIGN_ADDL_DS	ASSIGNMENT_ATTR24_NUM
W_HR_ASSIGN_ADDL_DS	ASSIGNMENT_ATTR25_DATE
W_HR_ASSIGN_ADDL_DS	ASSIGNMENT_ATTR25_NUM
W_HR_ASSIGN_ADDL_DS	ASSIGNMENT_ATTR26_DATE
W_HR_ASSIGN_ADDL_DS	ASSIGNMENT_ATTR26_NUM
W_HR_ASSIGN_ADDL_DS	ASSIGNMENT_ATTR27_DATE
W_HR_ASSIGN_ADDL_DS	ASSIGNMENT_ATTR27_NUM
W_HR_ASSIGN_ADDL_DS	ASSIGNMENT_ATTR28_DATE
W_HR_ASSIGN_ADDL_DS	ASSIGNMENT_ATTR28_NUM
W_HR_ASSIGN_ADDL_DS	ASSIGNMENT_ATTR29_DATE
W_HR_ASSIGN_ADDL_DS	ASSIGNMENT_ATTR29_NUM
W_HR_ASSIGN_ADDL_DS	ASSIGNMENT_ATTR30_DATE
W_HR_ASSIGN_ADDL_DS	ASSIGNMENT_ATTR30_NUM
W_HR_ASSIGN_ADDL_DS	ASSIGNMENT_ATTR31_CHAR
W_HR_ASSIGN_ADDL_DS	ASSIGNMENT_ATTR31_DATE
W_HR_ASSIGN_ADDL_DS	ASSIGNMENT_ATTR31_NUM
W_HR_ASSIGN_ADDL_DS	ASSIGNMENT_ATTR32_CHAR
W_HR_ASSIGN_ADDL_DS	ASSIGNMENT_ATTR32_DATE

Table Name	Column Name
W_HR_ASSIGN_ADDL_DS	ASSIGNMENT_ATTR32_NUM
W_HR_ASSIGN_ADDL_DS	ASSIGNMENT_ATTR33_CHAR
W_HR_ASSIGN_ADDL_DS	ASSIGNMENT_ATTR33_DATE
W_HR_ASSIGN_ADDL_DS	ASSIGNMENT_ATTR33_NUM
W_HR_ASSIGN_ADDL_DS	ASSIGNMENT_ATTR34_CHAR
W_HR_ASSIGN_ADDL_DS	ASSIGNMENT_ATTR34_DATE
W_HR_ASSIGN_ADDL_DS	ASSIGNMENT_ATTR34_NUM
W_HR_ASSIGN_ADDL_DS	ASSIGNMENT_ATTR35_CHAR
W_HR_ASSIGN_ADDL_DS	ASSIGNMENT_ATTR35_DATE
W_HR_ASSIGN_ADDL_DS	ASSIGNMENT_ATTR35_NUM
W_HR_ASSIGN_ADDL_DS	ASSIGNMENT_ATTR36_CHAR
W_HR_ASSIGN_ADDL_DS	ASSIGNMENT_ATTR36_DATE
W_HR_ASSIGN_ADDL_DS	ASSIGNMENT_ATTR36_NUM
W_HR_ASSIGN_ADDL_DS	ASSIGNMENT_ATTR37_CHAR
W_HR_ASSIGN_ADDL_DS	ASSIGNMENT_ATTR37_DATE
W_HR_ASSIGN_ADDL_DS	ASSIGNMENT_ATTR37_NUM
W_HR_ASSIGN_ADDL_DS	ASSIGNMENT_ATTR38_CHAR
W_HR_ASSIGN_ADDL_DS	ASSIGNMENT_ATTR38_DATE
W_HR_ASSIGN_ADDL_DS	ASSIGNMENT_ATTR38_NUM
W_HR_ASSIGN_ADDL_DS	ASSIGNMENT_ATTR39_CHAR
W_HR_ASSIGN_ADDL_DS	ASSIGNMENT_ATTR39_DATE
W_HR_ASSIGN_ADDL_DS	ASSIGNMENT_ATTR39_NUM
W_HR_ASSIGN_ADDL_DS	ASSIGNMENT_ATTR40_CHAR
W_HR_ASSIGN_ADDL_DS	ASSIGNMENT_ATTR40_DATE
W_HR_ASSIGN_ADDL_DS	ASSIGNMENT_ATTR40_NUM
W_HR_ASSIGN_ADDL_DS	ASSIGNMENT_ATTR41_CHAR
W_HR_ASSIGN_ADDL_DS	ASSIGNMENT_ATTR41_NUM
W_HR_ASSIGN_ADDL_DS	ASSIGNMENT_ATTR42_CHAR
W_HR_ASSIGN_ADDL_DS	ASSIGNMENT_ATTR42_NUM

Table Name	Column Name
W_HR_ASSIGN_ADDL_DS	ASSIGNMENT_ATTR43_CHAR
W_HR_ASSIGN_ADDL_DS	ASSIGNMENT_ATTR43_NUM
W_HR_ASSIGN_ADDL_DS	ASSIGNMENT_ATTR44_CHAR
W_HR_ASSIGN_ADDL_DS	ASSIGNMENT_ATTR44_NUM
W_HR_ASSIGN_ADDL_DS	ASSIGNMENT_ATTR45_CHAR
W_HR_ASSIGN_ADDL_DS	ASSIGNMENT_ATTR45_NUM
W_HR_ASSIGN_ADDL_DS	ASSIGNMENT_ATTR46_CHAR
W_HR_ASSIGN_ADDL_DS	ASSIGNMENT_ATTR46_NUM
W_HR_ASSIGN_ADDL_DS	ASSIGNMENT_ATTR47_CHAR
W_HR_ASSIGN_ADDL_DS	ASSIGNMENT_ATTR47_NUM
W_HR_ASSIGN_ADDL_DS	ASSIGNMENT_ATTR48_CHAR
W_HR_ASSIGN_ADDL_DS	ASSIGNMENT_ATTR48_NUM
W_HR_ASSIGN_ADDL_DS	ASSIGNMENT_ATTR49_CHAR
W_HR_ASSIGN_ADDL_DS	ASSIGNMENT_ATTR49_NUM
W_HR_ASSIGN_ADDL_DS	ASSIGNMENT_ATTR50_CHAR
W_HR_ASSIGN_ADDL_DS	ASSIGNMENT_ATTR50_NUM
W_HR_ASSIGN_ADDL_DS	ASSIGNMENT_ATTR51_CHAR
W_HR_ASSIGN_ADDL_DS	ASSIGNMENT_ATTR51_NUM
W_HR_ASSIGN_ADDL_DS	ASSIGNMENT_ATTR52_CHAR
W_HR_ASSIGN_ADDL_DS	ASSIGNMENT_ATTR52_NUM
W_HR_ASSIGN_ADDL_DS	ASSIGNMENT_ATTR53_CHAR
W_HR_ASSIGN_ADDL_DS	ASSIGNMENT_ATTR53_NUM
W_HR_ASSIGN_ADDL_DS	ASSIGNMENT_ATTR54_CHAR
W_HR_ASSIGN_ADDL_DS	ASSIGNMENT_ATTR54_NUM
W_HR_ASSIGN_ADDL_DS	ASSIGNMENT_ATTR55_CHAR
W_HR_ASSIGN_ADDL_DS	ASSIGNMENT_ATTR55_NUM
W_HR_ASSIGN_ADDL_DS	ASSIGNMENT_ATTR56_CHAR
W_HR_ASSIGN_ADDL_DS	ASSIGNMENT_ATTR56_NUM
W_HR_ASSIGN_ADDL_DS	ASSIGNMENT_ATTR57_CHAR

Table Name	Column Name
W_HR_ASSIGN_ADDL_DS	ASSIGNMENT_ATTR57_NUM
W_HR_ASSIGN_ADDL_DS	ASSIGNMENT_ATTR58_CHAR
W_HR_ASSIGN_ADDL_DS	ASSIGNMENT_ATTR58_NUM
W_HR_ASSIGN_ADDL_DS	ASSIGNMENT_ATTR59_CHAR
W_HR_ASSIGN_ADDL_DS	ASSIGNMENT_ATTR59_NUM
W_HR_ASSIGN_ADDL_DS	ASSIGNMENT_ATTR60_CHAR
W_HR_ASSIGN_ADDL_DS	ASSIGNMENT_ATTR60_NUM
W_HR_ASSIGN_ADDL_DS	ASSIGNMENT_ATTR61_CHAR
W_HR_ASSIGN_ADDL_DS	ASSIGNMENT_ATTR61_NUM
W_HR_ASSIGN_ADDL_DS	ASSIGNMENT_ATTR62_CHAR
W_HR_ASSIGN_ADDL_DS	ASSIGNMENT_ATTR62_NUM
W_HR_ASSIGN_ADDL_DS	ASSIGNMENT_ATTR63_CHAR
W_HR_ASSIGN_ADDL_DS	ASSIGNMENT_ATTR63_NUM
W_HR_ASSIGN_ADDL_DS	ASSIGNMENT_ATTR64_CHAR
W_HR_ASSIGN_ADDL_DS	ASSIGNMENT_ATTR64_NUM
W_HR_ASSIGN_ADDL_DS	ASSIGNMENT_ATTR65_CHAR
W_HR_ASSIGN_ADDL_DS	ASSIGNMENT_ATTR65_NUM
W_HR_ASSIGN_ADDL_DS	ASSIGNMENT_ATTR66_CHAR
W_HR_ASSIGN_ADDL_DS	ASSIGNMENT_ATTR66_NUM
W_HR_ASSIGN_ADDL_DS	ASSIGNMENT_ATTR67_CHAR
W_HR_ASSIGN_ADDL_DS	ASSIGNMENT_ATTR67_NUM
W_HR_ASSIGN_ADDL_DS	ASSIGNMENT_ATTR68_CHAR
W_HR_ASSIGN_ADDL_DS	ASSIGNMENT_ATTR68_NUM
W_HR_ASSIGN_ADDL_DS	ASSIGNMENT_ATTR69_CHAR
W_HR_ASSIGN_ADDL_DS	ASSIGNMENT_ATTR69_NUM
W_HR_ASSIGN_ADDL_DS	ASSIGNMENT_ATTR70_CHAR
W_HR_ASSIGN_ADDL_DS	ASSIGNMENT_ATTR70_NUM
W_HR_ASSIGN_ADDL_DS	ASSIGNMENT_ATTR71_CHAR
W_HR_ASSIGN_ADDL_DS	ASSIGNMENT_ATTR71_NUM

Table Name	Column Name
W_HR_ASSIGN_ADDL_DS	ASSIGNMENT_ATTR72_CHAR
W_HR_ASSIGN_ADDL_DS	ASSIGNMENT_ATTR72_NUM
W_HR_ASSIGN_ADDL_DS	ASSIGNMENT_ATTR73_CHAR
W_HR_ASSIGN_ADDL_DS	ASSIGNMENT_ATTR73_NUM
W_HR_ASSIGN_ADDL_DS	ASSIGNMENT_ATTR74_CHAR
W_HR_ASSIGN_ADDL_DS	ASSIGNMENT_ATTR74_NUM
W_HR_ASSIGN_ADDL_DS	ASSIGNMENT_ATTR75_CHAR
W_HR_ASSIGN_ADDL_DS	ASSIGNMENT_ATTR75_NUM
W_HR_ASSIGN_ADDL_DS	ASSIGNMENT_ATTR76_CHAR
W_HR_ASSIGN_ADDL_DS	ASSIGNMENT_ATTR76_NUM
W_HR_ASSIGN_ADDL_DS	ASSIGNMENT_ATTR77_CHAR
W_HR_ASSIGN_ADDL_DS	ASSIGNMENT_ATTR77_NUM
W_HR_ASSIGN_ADDL_DS	ASSIGNMENT_ATTR78_CHAR
W_HR_ASSIGN_ADDL_DS	ASSIGNMENT_ATTR78_NUM
W_HR_ASSIGN_ADDL_DS	ASSIGNMENT_ATTR79_CHAR
W_HR_ASSIGN_ADDL_DS	ASSIGNMENT_ATTR79_NUM
W_HR_ASSIGN_ADDL_DS	ASSIGNMENT_ATTR80_CHAR
W_HR_ASSIGN_ADDL_DS	ASSIGNMENT_ATTR80_NUM
W_HR_ASSIGN_ADDL_DS	ASSIGNMENT_ATTR81_CHAR
W_HR_ASSIGN_ADDL_DS	ASSIGNMENT_ATTR82_CHAR
W_HR_ASSIGN_ADDL_DS	ASSIGNMENT_ATTR83_CHAR
W_HR_ASSIGN_ADDL_DS	ASSIGNMENT_ATTR84_CHAR
W_HR_ASSIGN_ADDL_DS	ASSIGNMENT_ATTR85_CHAR
W_HR_ASSIGN_ADDL_DS	ASSIGNMENT_ATTR86_CHAR
W_HR_ASSIGN_ADDL_DS	ASSIGNMENT_ATTR87_CHAR
W_HR_ASSIGN_ADDL_DS	ASSIGNMENT_ATTR88_CHAR
W_HR_ASSIGN_ADDL_DS	ASSIGNMENT_ATTR89_CHAR
W_HR_ASSIGN_ADDL_DS	ASSIGNMENT_ATTR90_CHAR
W_HR_ASSIGN_ADDL_DS	ASSIGNMENT_ATTR91_CHAR

Table Name	Column Name
W_HR_ASSIGN_ADDL_DS	ASSIGNMENT_ATTR92_CHAR
W_HR_ASSIGN_ADDL_DS	ASSIGNMENT_ATTR93_CHAR
W_HR_ASSIGN_ADDL_DS	ASSIGNMENT_ATTR94_CHAR
W_HR_ASSIGN_ADDL_DS	ASSIGNMENT_ATTR95_CHAR
W_HR_ASSIGN_ADDL_DS	ASSIGNMENT_ATTR96_CHAR
W_HR_ASSIGN_ADDL_DS	ASSIGNMENT_ATTR97_CHAR
W_HR_ASSIGN_ADDL_DS	ASSIGNMENT_ATTR98_CHAR
W_HR_ASSIGN_ADDL_DS	ASSIGNMENT_ATTR99_CHAR
W_HR_ASSIGN_ADDL_DS	EFFECTIVE_LATEST_CHANGE
W_HR_ASSIGN_ADDL_DS	EFFECTIVE_SEQUENCE
W_HR_ASSIGN_ADDL_DS	FLEX_DATA_FLG
W_HR_ASSIGN_ADDL_DS	HR_ASSIGNMENT_ID
W_HR_ASSIGN_ADDL_DS	W_EFFECTIVE_LATEST_CHANGE
W_HR_PERSON_LEG_D	HR_PERLEG_ADDL_INT_ID
W_HR_PERSON_LEG_D	HR_PERLEG_ADDL_WID
W_HR_PERSON_LEG_D	HR_PERLEG_CSHP_ADDL_INT_ID
W_HR_PERSON_LEG_D	HR_PERLEG_CSHP_ADDL_WID
W_HR_PERSON_LEG_D	HR_PERLEG_NM_ADDL_INT_ID
W_HR_PERSON_LEG_D	HR_PERLEG_NM_ADDL_WID
W_HR_PERSON_LEG_D	HR_PERLEG_VISA_ADDL_INT_ID
W_HR_PERSON_LEG_D	HR_PERLEG_VISA_ADDL_WID
W_HR_PERSON_LEG_DS	HR_PERLEG_ADDL_INT_ID
W_HR_PERSON_LEG_DS	HR_PERLEG_CSHP_ADDL_INT_ID
W_HR_PERSON_LEG_DS	HR_PERLEG_NM_ADDL_INT_ID
W_HR_PERSON_LEG_DS	HR_PERLEG_VISA_ADDL_INT_ID
W_JOB_D	JOB_FMLY_ADDL_INT_ID
W_JOB_D	JOB_FMLY_ADDL_WID
W_JOB_DS	JOB_FMLY_ADDL_INT_ID
W_SCCN_CANDIDATE_D	CANDIDATE_ATTR1_CHAR

Table Name	Column Name
W_SCCN_CANDIDATE_D	CANDIDATE_ATTR1_DATE
W_SCCN_CANDIDATE_D	CANDIDATE_ATTR1_NUM
W_SCCN_CANDIDATE_D	CANDIDATE_ATTR2_CHAR
W_SCCN_CANDIDATE_D	CANDIDATE_ATTR2_DATE
W_SCCN_CANDIDATE_D	CANDIDATE_ATTR2_NUM
W_SCCN_CANDIDATE_D	CANDIDATE_ATTR3_CHAR
W_SCCN_CANDIDATE_D	CANDIDATE_ATTR3_DATE
W_SCCN_CANDIDATE_D	CANDIDATE_ATTR3_NUM
W_SCCN_CANDIDATE_D	CANDIDATE_ATTR4_CHAR
W_SCCN_CANDIDATE_D	CANDIDATE_ATTR4_DATE
W_SCCN_CANDIDATE_D	CANDIDATE_ATTR4_NUM
W_SCCN_CANDIDATE_D	CANDIDATE_ATTR5_CHAR
W_SCCN_CANDIDATE_D	CANDIDATE_ATTR5_DATE
W_SCCN_CANDIDATE_D	CANDIDATE_ATTR5_NUM
W_SCCN_CANDIDATE_D	CANDIDATE_ATTR6_CHAR
W_SCCN_CANDIDATE_D	CANDIDATE_ATTR6_DATE
W_SCCN_CANDIDATE_D	CANDIDATE_ATTR6_NUM
W_SCCN_CANDIDATE_D	CANDIDATE_ATTR7_CHAR
W_SCCN_CANDIDATE_D	CANDIDATE_ATTR7_DATE
W_SCCN_CANDIDATE_D	CANDIDATE_ATTR7_NUM
W_SCCN_CANDIDATE_D	CANDIDATE_ATTR8_CHAR
W_SCCN_CANDIDATE_D	CANDIDATE_ATTR8_DATE
W_SCCN_CANDIDATE_D	CANDIDATE_ATTR8_NUM
W_SCCN_CANDIDATE_D	CANDIDATE_ATTR9_CHAR
W_SCCN_CANDIDATE_D	CANDIDATE_ATTR9_DATE
W_SCCN_CANDIDATE_D	CANDIDATE_ATTR9_NUM
W_SCCN_CANDIDATE_DS	CANDIDATE_ATTR1_CHAR
W_SCCN_CANDIDATE_DS	CANDIDATE_ATTR1_DATE
W_SCCN_CANDIDATE_DS	CANDIDATE_ATTR1_NUM

Table Name	Column Name
W_SCCN_CANDIDATE_DS	CANDIDATE_ATTR2_CHAR
W_SCCN_CANDIDATE_DS	CANDIDATE_ATTR2_DATE
W_SCCN_CANDIDATE_DS	CANDIDATE_ATTR2_NUM
W_SCCN_CANDIDATE_DS	CANDIDATE_ATTR3_CHAR
W_SCCN_CANDIDATE_DS	CANDIDATE_ATTR3_DATE
W_SCCN_CANDIDATE_DS	CANDIDATE_ATTR3_NUM
W_SCCN_CANDIDATE_DS	CANDIDATE_ATTR4_CHAR
W_SCCN_CANDIDATE_DS	CANDIDATE_ATTR4_DATE
W_SCCN_CANDIDATE_DS	CANDIDATE_ATTR4_NUM
W_SCCN_CANDIDATE_DS	CANDIDATE_ATTR5_CHAR
W_SCCN_CANDIDATE_DS	CANDIDATE_ATTR5_DATE
W_SCCN_CANDIDATE_DS	CANDIDATE_ATTR5_NUM
W_SCCN_CANDIDATE_DS	CANDIDATE_ATTR6_CHAR
W_SCCN_CANDIDATE_DS	CANDIDATE_ATTR6_DATE
W_SCCN_CANDIDATE_DS	CANDIDATE_ATTR6_NUM
W_SCCN_CANDIDATE_DS	CANDIDATE_ATTR7_CHAR
W_SCCN_CANDIDATE_DS	CANDIDATE_ATTR7_DATE
W_SCCN_CANDIDATE_DS	CANDIDATE_ATTR7_NUM
W_SCCN_CANDIDATE_DS	CANDIDATE_ATTR8_CHAR
W_SCCN_CANDIDATE_DS	CANDIDATE_ATTR8_DATE
W_SCCN_CANDIDATE_DS	CANDIDATE_ATTR8_NUM
W_SCCN_CANDIDATE_DS	CANDIDATE_ATTR9_CHAR
W_SCCN_CANDIDATE_DS	CANDIDATE_ATTR9_DATE
W_SCCN_CANDIDATE_DS	CANDIDATE_ATTR9_NUM
W_WRKFC_EVENT_TYPE_D	EVNTRSN_ADDL_INT_WID
W_WRKFC_EVENT_TYPE_D	EVNT_ADDL_INT_WID
W_WRKFC_EVENT_TYPE_DS	EVNTRSN_ADDL_INT_ID
W_WRKFC_EVENT_TYPE_DS	EVNT_ADDL_INT_ID

4. The following columns have been added to the Recruitment module for Taleo:

Table Name	Column Name
W_APPL_EVENT_F	JOB_APPLICATION_WID
W_APPL_EVENT_F	RCRTMNT_CANDIDATE_WID
W_APPL_EVENT_FS	JOB_APPLICATION_ID
W_APPL_EVENT_FS	RCRTMNT_CANDIDATE_ID
W_JOB_RQSTN_D	JOB_RQSTN_ADDL_WID
W_JOB_RQSTN_D	REQUISITION_IDENTIFIER
W_JOB_RQSTN_DS	REQUISITION_IDENTIFIER
W_RCRTMNT_EVENT_F	JOB_APPLICATION_WID
W_RCRTMNT_EVENT_F	RCRTMNT_CANDIDATE_WID

5. The following columns have been added in the Workforce module of PeopleSoft:

Table Name	Column Name
W_PSFT_WEVT_JOB_PS	MARKET_VALUE
W_PSFT_WEVT_PS	MARKET_VALUE

6. The following columns have been added in Time and Labor:

Table Name	Column Name
W_FSN_TLB_HWM_DTL_PS	A_XFR_STATUS_PJC
W_FSN_TLB_HWM_DTL_PS	A_XFR_STATUS_PYR
W_FSN_TLB_HWM_DTL_PS	DTL_PAY_TCSMRS_ID
W_FSN_TLB_HWM_DTL_PS	DTL_PJC_TCSMRS_ID
W_FSN_TLB_HWM_DTL_PS	D_READY_XFR_STATUS_PJC
W_FSN_TLB_HWM_DTL_PS	D_READY_XFR_STATUS_PYR
W_FSN_TLB_HWM_PRCSD_PS	DTL_A_XFR_STATUS_PJC
W_FSN_TLB_HWM_PRCSD_PS	DTL_A_XFR_STATUS_PJT
W_FSN_TLB_HWM_PRCSD_PS	DTL_A_XFR_STATUS_PYR
W_FSN_TLB_HWM_PRCSD_PS	DTL_D_READY_XFR_STATUS_PJT
W_FSN_TLB_HWM_TM_STUS_PS	A_XFR_STATUS_PJC
W_FSN_TLB_HWM_TM_STUS_PS	A_XFR_STATUS_PJT
W_FSN_TLB_HWM_TM_STUS_PS	A_XFR_STATUS_PYR

Table Name	Column Name
W_FSN_TLB_HWM_TM_STUS_PS	D_READY_XFR_STATUS_PJC
W_FSN_TLB_HWM_TM_STUS_PS	D_READY_XFR_STATUS_PJT
W_FSN_TLB_HWM_TM_STUS_PS	D_READY_XFR_STATUS_PYR

7. While upgrading with Peoplesoft as a source, the following may happen:
   a. Insert operation in the following tables:
      - W_APPL_EVENT_FS
      - W_DOMAIN_MEMBER_GS
      - W_PAY_RUN_BAL_DTL_FS
   b. Insert or update operation on the following tables:
      - W_DOMAIN_MEMBER_G
      - W_DOMAIN_MEMBER_G_T
   c. Update operation on the following tables:
      - W_PSFT_WEVT_JOB_PS
      - W_PSFT_WEVT_PS
      - W_PAY_RUN_BAL_DTL_F
      - W_APPL_EVENT_F
      - W_APPL_ACC_SNP_F
      - W_RCRTMNT_EVENT_F
8. While upgrading with EBusiness Suite as a source, the following may happen:
   a. Insert operation in the following tables:
      - W_ABSENCE_EVENT_DS
      - W_ABSENCE_EVENT_EQ_TMP
      - W_ABSENCE_EVENT_F
   b. Update operation on the following tables:
      - W_ORA_EVT_PS
      - W_ABSENCE_EVENT_D
      - W_WRKFC_EVT_F
      - W_WRKFC_EVT_MERGE_F
      - W_WRKFC_EVT_MONTH_F

9. While upgrading with Fusion as a source, the following tables get refreshed during the first incremental run after the upgrade:

    - W_FSN_WEVT_ASG_PS
    - W_FSN_WEVT_PS
    - W_WRKFC_EVT_FS
    - W_FSN_PRFL_ITEM_PS
    - W_FSN_PRFL_ITEM_DATES_TMP
    - W_TLNT_PRFL_ACHVMNT_FS
    - W_TLNT_PRFL_RQRMNT_FS
    - W_TLNT_PRFL_ACHVMNT_F
    - W_FSN_TLB_HXT_TM_HDR_PS
    - W_FSN_TLB_HWM_TM_TAUA_PS
    - W_FSN_TLB_HWM_TM_GRP_PS
    - W_FSN_TLB_HWM_TM_GRP_U_PS
    - W_FSN_TLB_HWM_TM_STUS_PS
    - W_FSN_TLB_HWM_TC_PS
    - W_FSN_TLB_HWM_DAY_PS
    - W_FSN_TLB_HWM_DTL_PS
    - W_FSN_TLB_HWM_PRCSD_PS
    - W_FSN_TLB_HWM_RPTD_PS

10. While upgrading with PeopleSoft as a source, the following tables get refreshed during the first incremental run after the upgrade.

    - W_TLNT_PRFL_ACHVMNT_FS
    - W_TLNT_PRFL_RQRMNT_FS
    - W_TLNT_PRFL_RQRMNT_F
    - W_TLNT_PRFL_ACHVMNT_F