Oracle® Business Intelligence Applications

Upgrade Guide

11*g* Release 1 (11.1.1.10)

E60606-02

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ORACLE

Oracle Business Intelligence Applications Upgrade Guide, 11g Release 1 (11.1.1.10)

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Contents

Preface

Oracle Business Intelligence 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.

Related Documents

The Oracle Business Intelligence Applications documentation library contains the complete set of BI Applications documents.

See the Oracle Business Intelligence Applications documentation library at http://docs.oracle.com/cd/E63231_01/index.htm.

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 upgrade process from 11.1.1.9.2 to 11.1.1.10.1.

Topics

Overview of Upgrade Process

Upgrade of Oracle BI Applications from release 11.1.1.9.2 to 11.1.1.10.1 includes upgrades to components, repositories (schema and content), and data.

To upgrade Oracle BI Applications release 11.1.1.9.2 to 11.1.1.10.1, you must upgrade the following:

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

> **Note:** The upgrade from BI Applications 7.9.6.*x* to BI Applications 11.1.1.9.2 is not supported. Additionally, upgrade from BI Applications for 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 BI Applications 11.1.1..9.2 to 11.1.1.10.1:

1. Complete the upgrade pre-requisites.
2. Run the BI Applications 11.1.1.10.1 installer to upgrade the BI Application binaries from release 11.1.1.9.2 to 11.1.1.10.1.
3. Apply the Fusion Middlewarepatches for BI Applications 11.1.1.10.1.

4. Use the PSA tool to upgrade BIACOMP schema (ATGLite, FSM, BIACM and BIACM_IO component upgrades).
5. Run script to upgrade deployment changes in BI Applications 11.1.1.10.1.
6. Use the BI Update Metadata tool to upgrade the JAZN.
7. Upgrade the RPD and Presentation Catalog.
8. Apply client-side patches.
9. Upgrade the ODI Repository metadata (content).
10. Upgrade Business Analytics Warehouse schema and Migrate Data in Data Warehouse.

Upgrade Prerequisites

Complete the prerequisites before performing the upgrade from BI Applications 11.1.1.9.2 to BI Applications 11.1.1.10.1.

Ensure that you perform the following prerequisites:

- Take a backup of the MWHOME folder before upgrade.
- Review the Certification Matrix for BI Applications release 11.1.1.10.1. The Certification Matrix is available on the Fusion Middleware Certification Page on Oracle Technology Network (OTN).
- Upgrading Oracle BI Enterprise Edition from 11.1.1.7.0 to 11.1.1.9.0
- Upgrading Oracle Data Integrator From 11.1.1.7.0 to 11.1.1.9.0

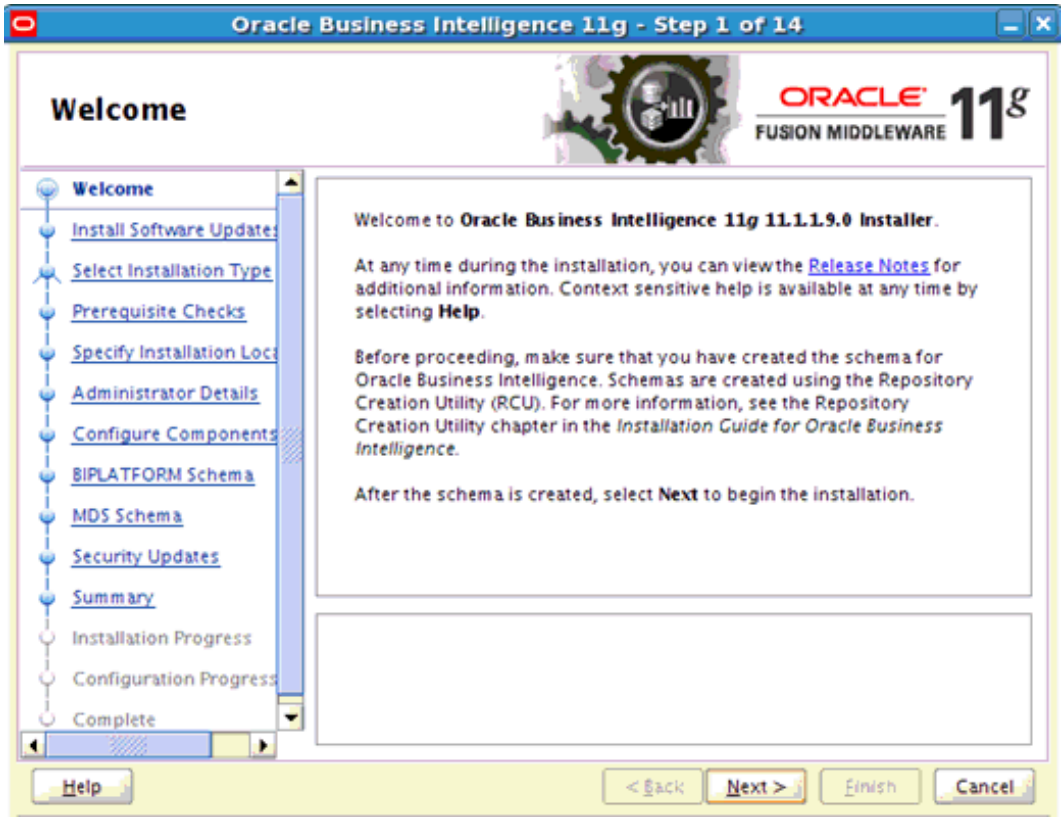
Upgrading Oracle BI Enterprise Edition From 11.1.1.7.0 to 11.1.1.9.0

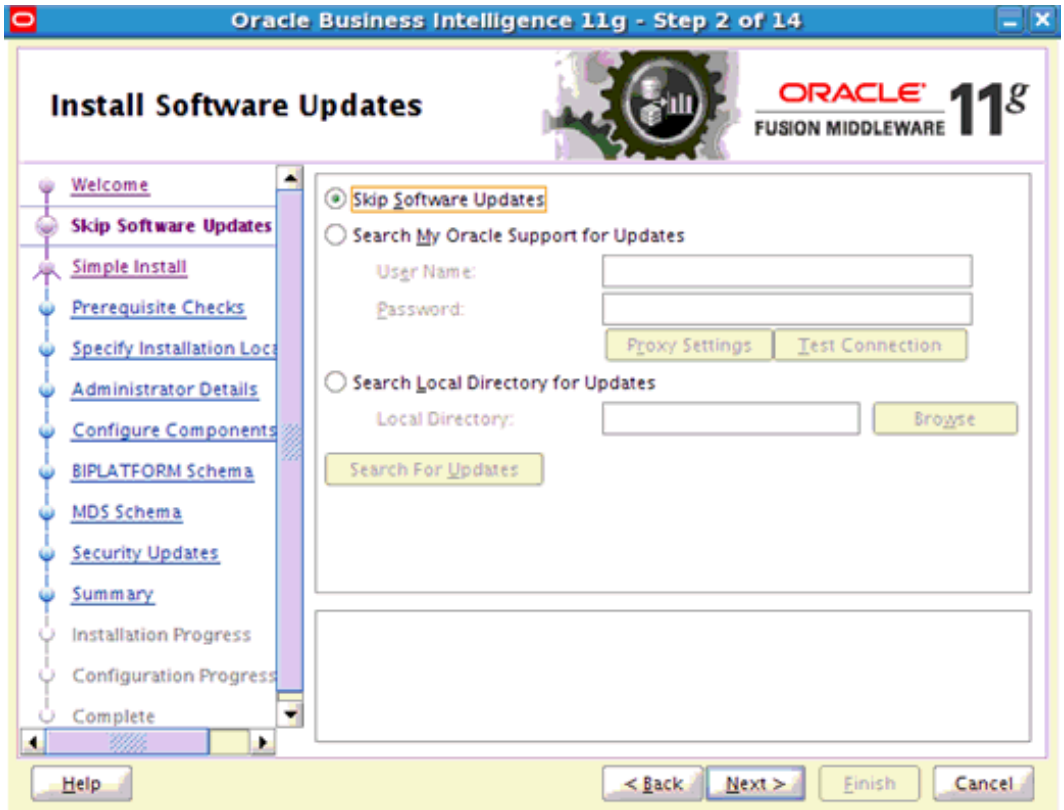
Oracle recommends that you follow the standard Oracle BI Enterprise Edition (OBIEE) documentation before using these instructions. Refer to section 1.7 of My Oracle Support Note 2022915.1- OBIEE 11*g* - How To Upgrade From OBIEE 11.1.1.7.0 To OBIEE 11.1.1.9.0.

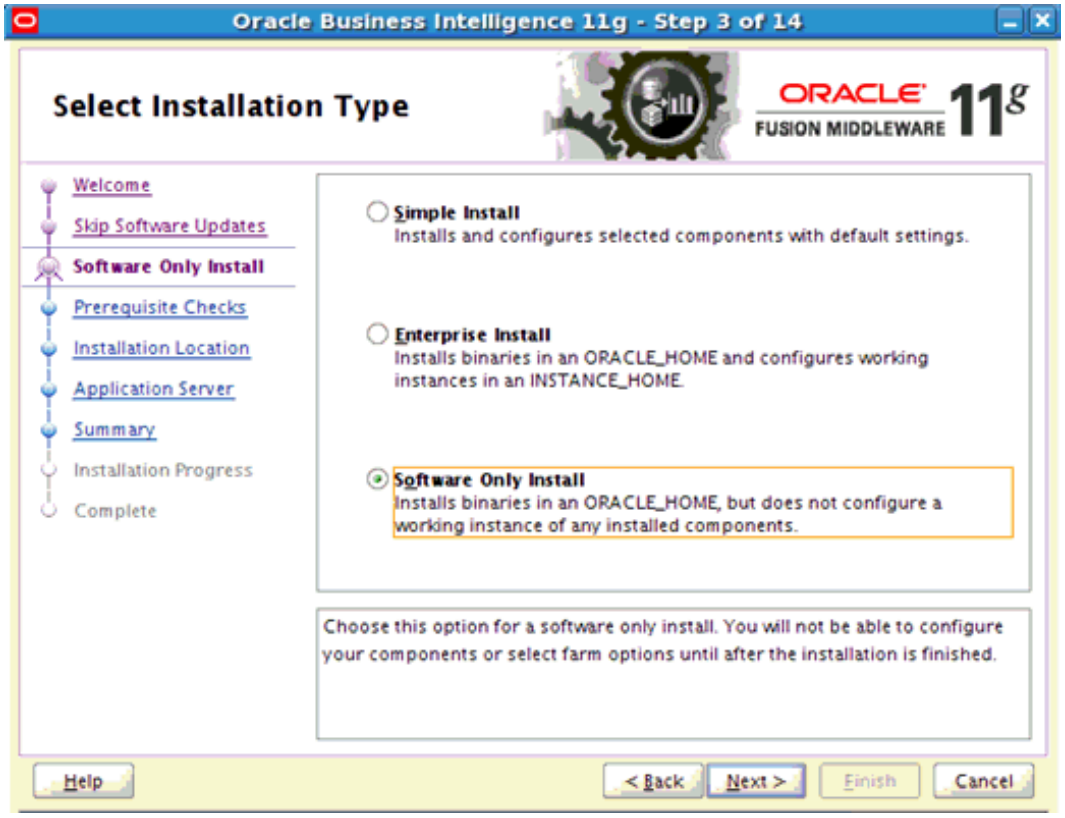
To upgrade Oracle BI Enterprise Edition from 11.1.1.7.0 to 11.1.1.9.0:

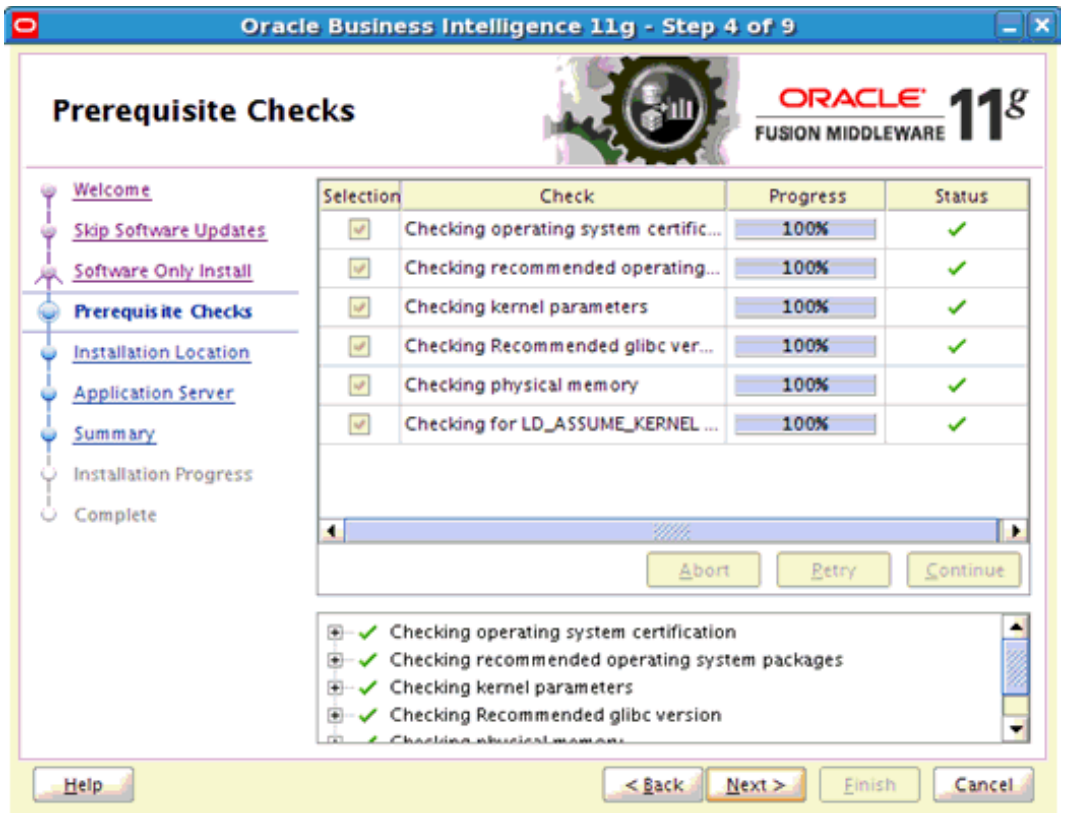
1. Perform the following general pre-patch tasks:
   - Stop all WebLogic Servers, Node Manager, OPMN, and OPMN-managed system components that are part of all Oracle BI domains that use the Middleware Home that you must patch. Additionally, on Windows systems, stop the component that is called Oracle 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 OBIEE software files are unzipped.
5. Switch to `Disk1` directory under that directory and run the installer as follows:

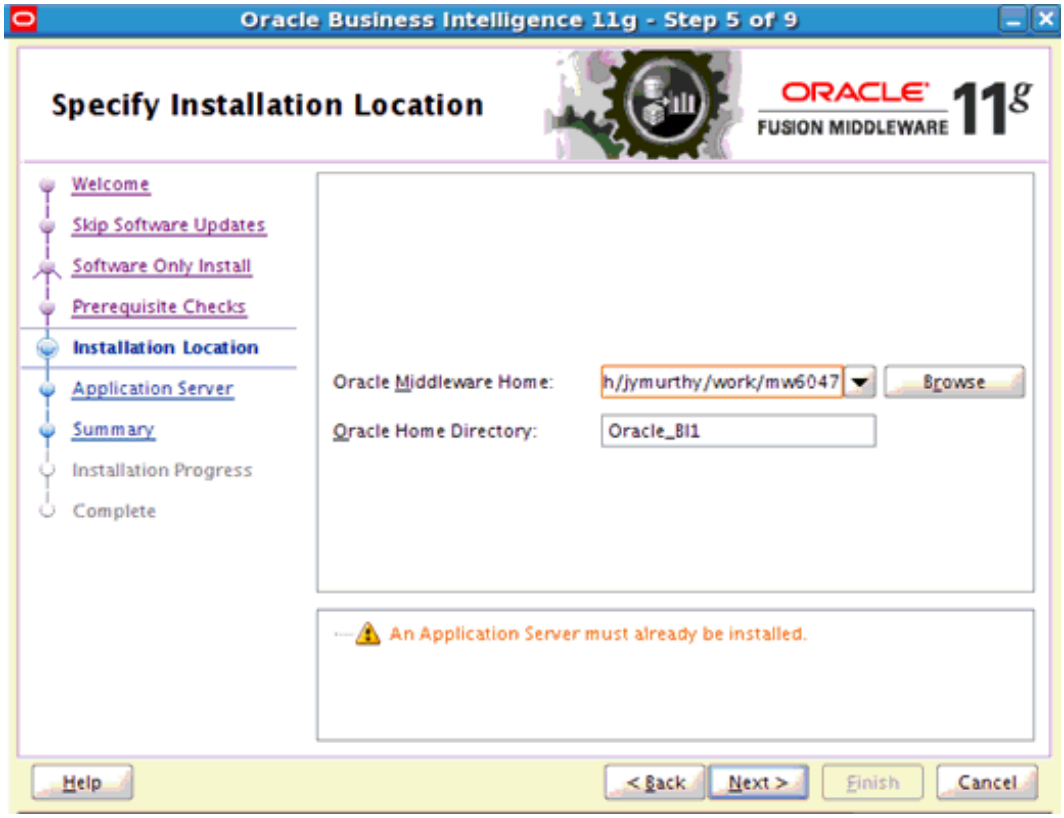
```
[aime1@slc01aym Disk1]$ ./runInstaller -jreLoc $ORACLE_HOME/jdk -invPtrLoc
$ORACLE_HOME/oraInst.loc where ORACLE_HOME = BI_ORACLE_HOME
```



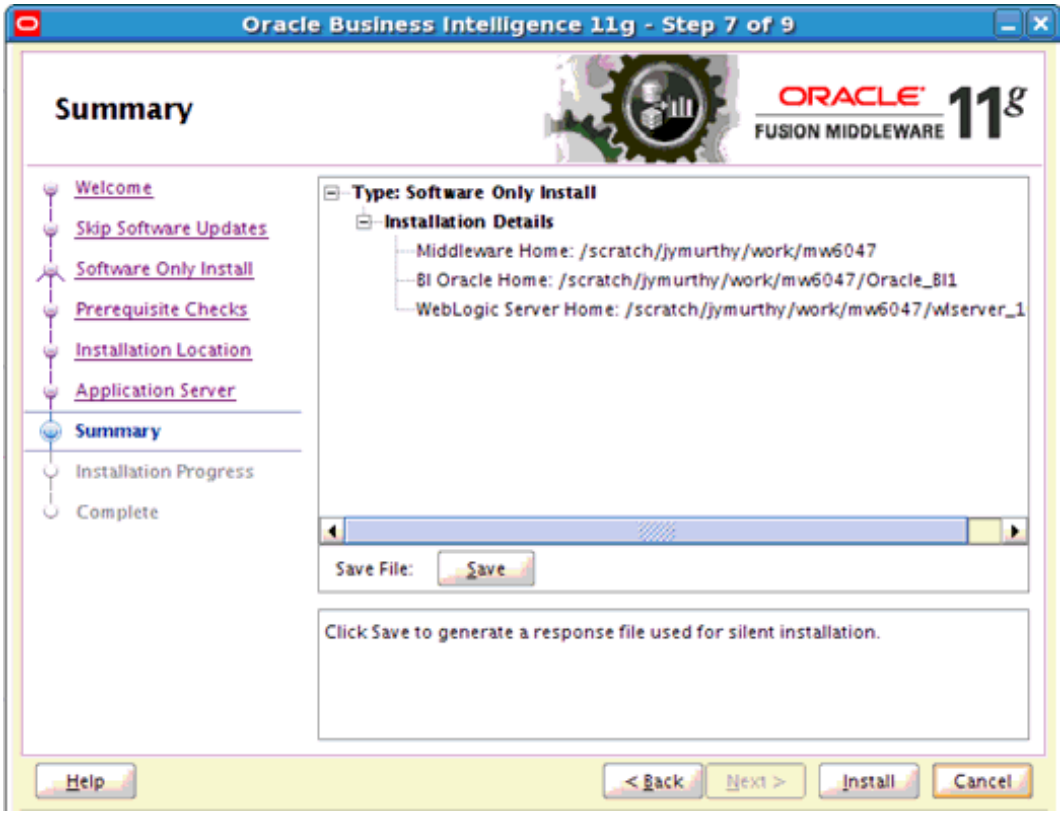



Oracle Business Intelligence 11g - Step 3 of 14
Select Installation Type
ORACLE
FUSION MIDDLEWARE 11g
Welcome
Skip Software Updates
Software Only Install
Prerequisite Checks
Installation Location
Application Server
Summary
Installation Progress
Complete
Simple Install
Installs and configures selected 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

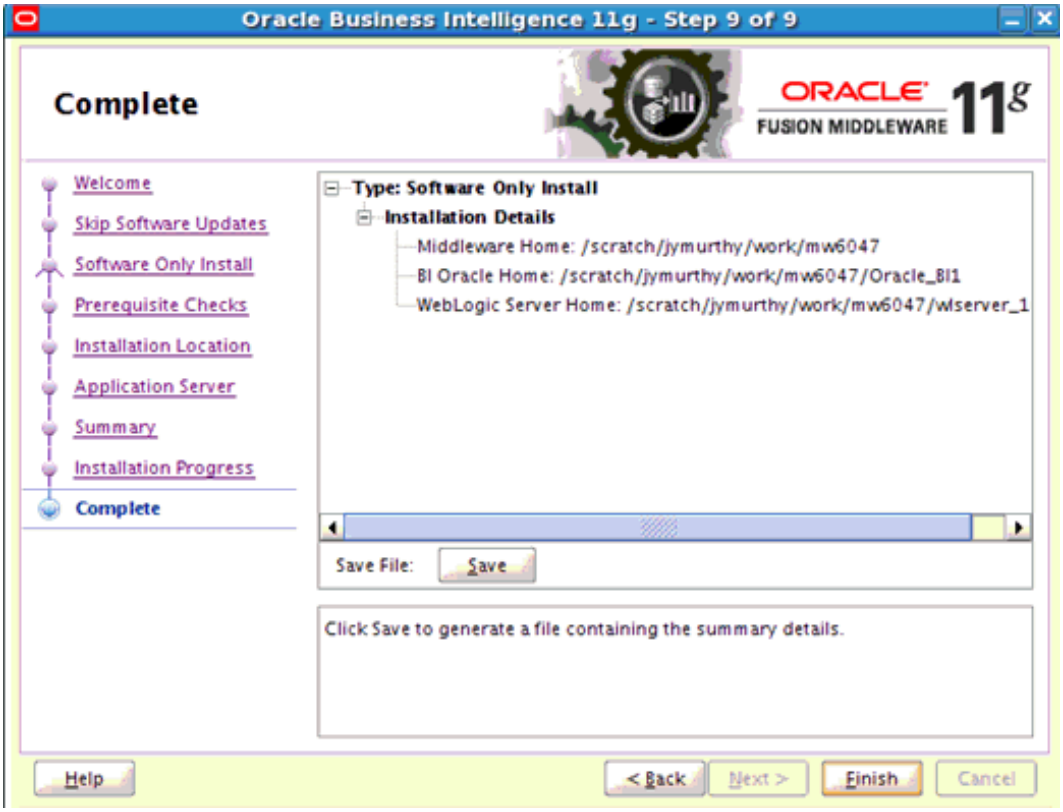

Oracle Business Intelligence 11g - Step 4 of 9
Prerequisite Checks
ORACLE
FUSION MIDDLEWARE 11g
Welcome
Skip Software Updates
Software Only Install
Prerequisite Checks
Installation Location
Application Server
Summary
Installation Progress
Complete
Selection
Check
Progress
Status
Checking operating system certific...
100%
Checking recommended operating...
100%
Checking kernel parameters
100%
Checking Recommended glibc ver...
100%
Checking physical memory
100%
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

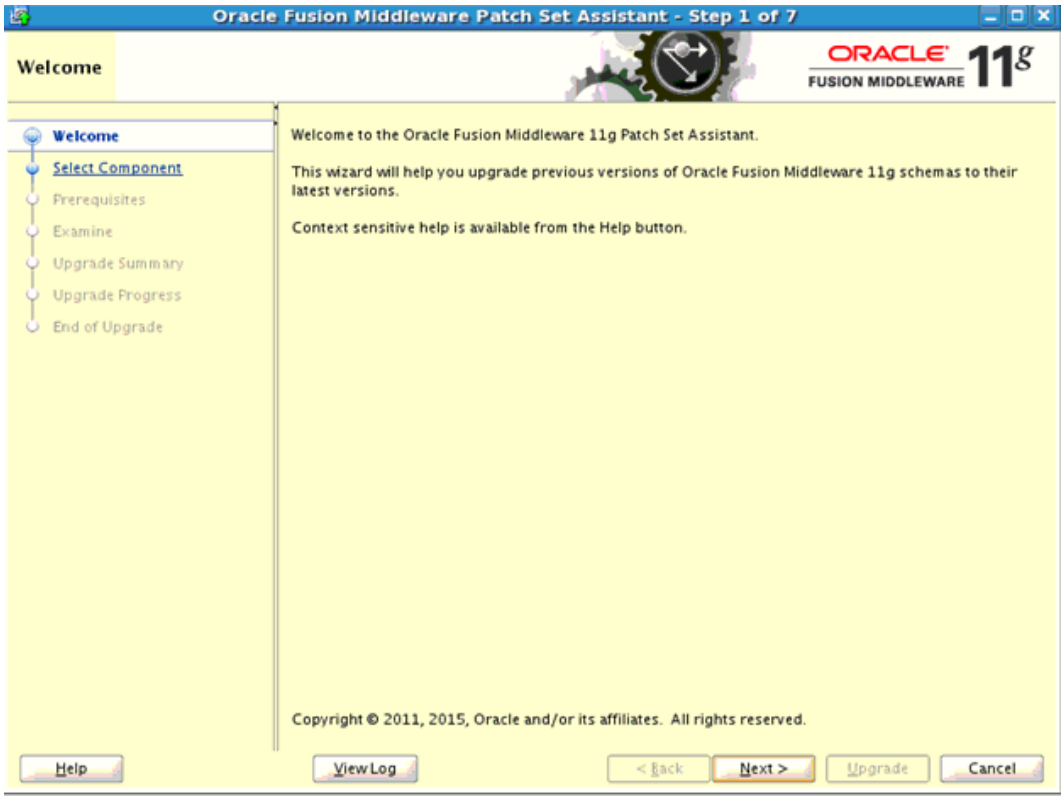


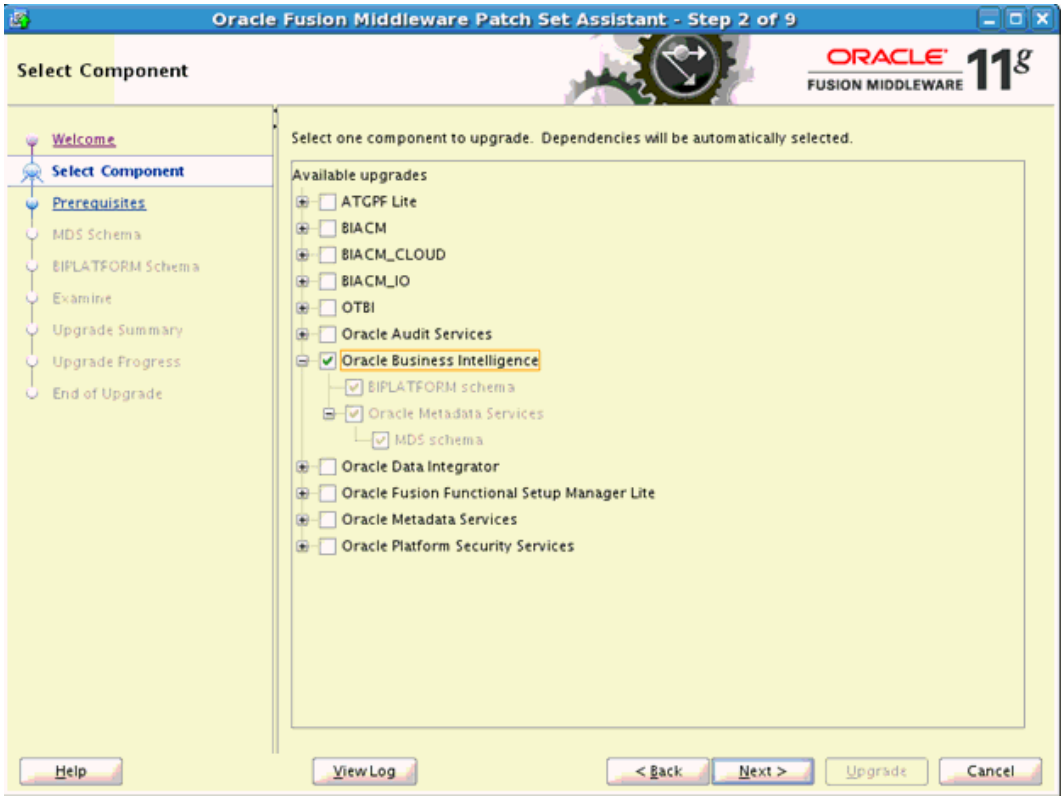
6. Run the Patch Set Assistant for each of the Oracle BI schemas created with RCU, as described in the following list. Update the MDS schema first.

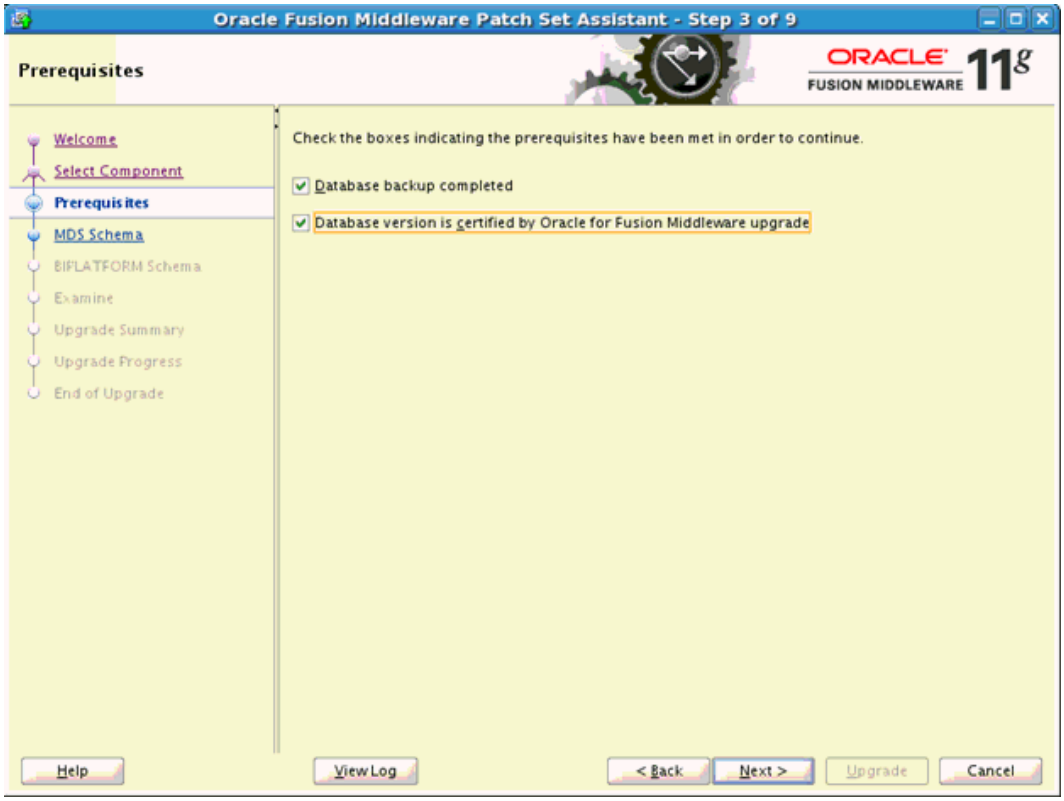
- MDS
- BIPLATFORM

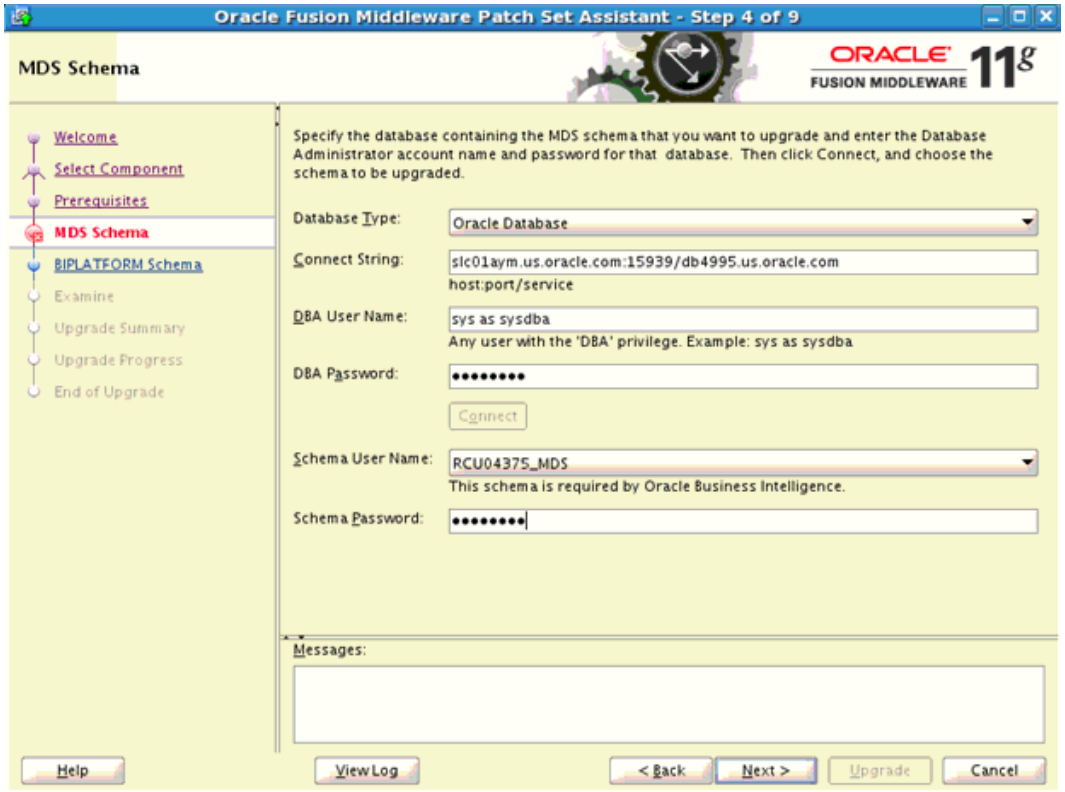
Switch to `ORACLE_HOME/bin` under `<MiddlewareHome>`

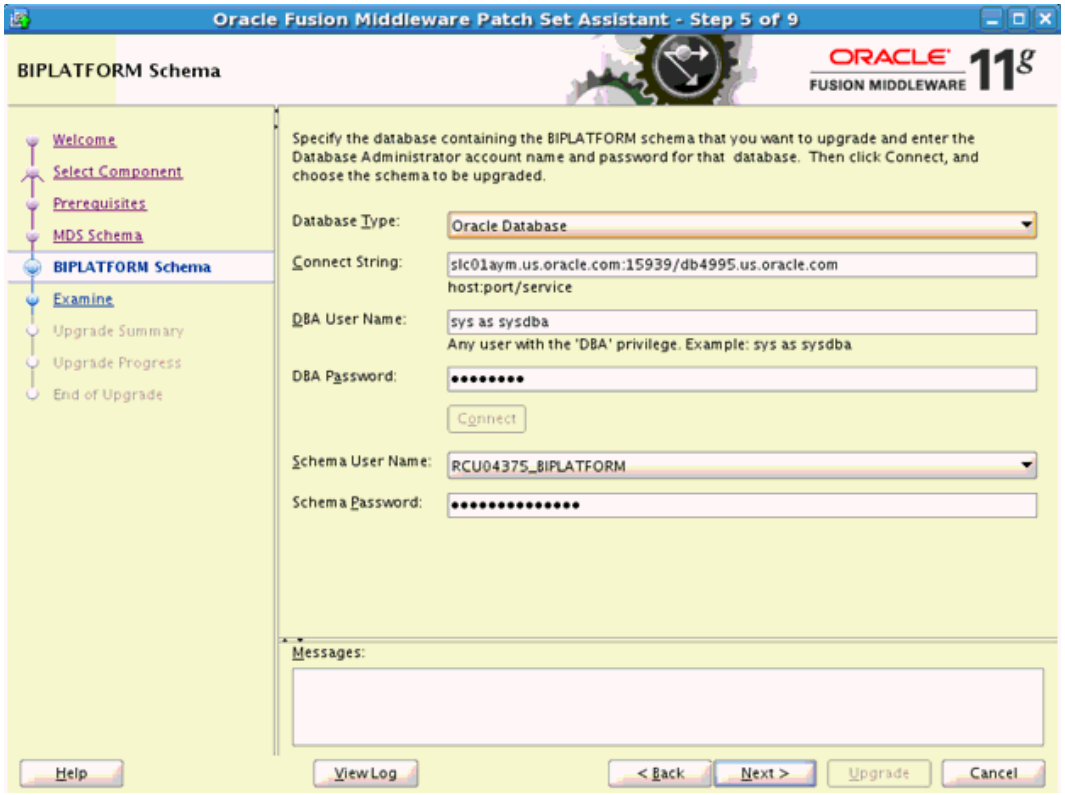
```
[aime1@slc01aym bin]$ pwd
/scratch/ aime1/work/mw6047/Oracle_BI1/bin
[aime1@slc01aym bin]$ ./psa
```

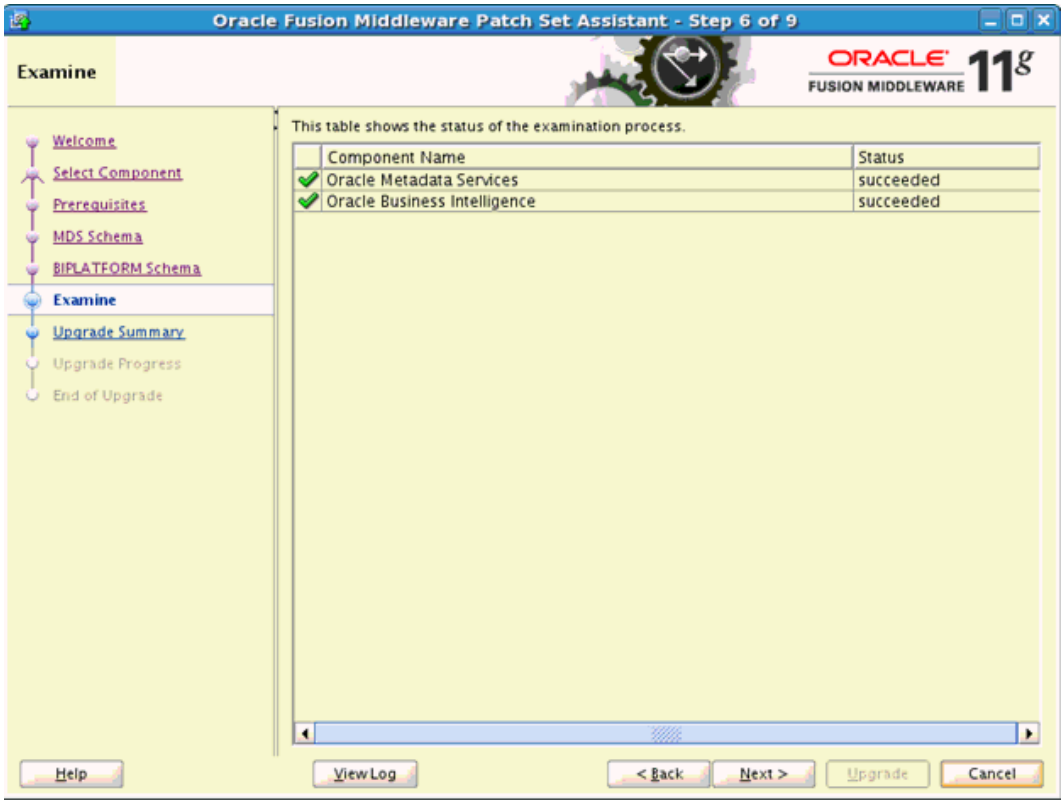


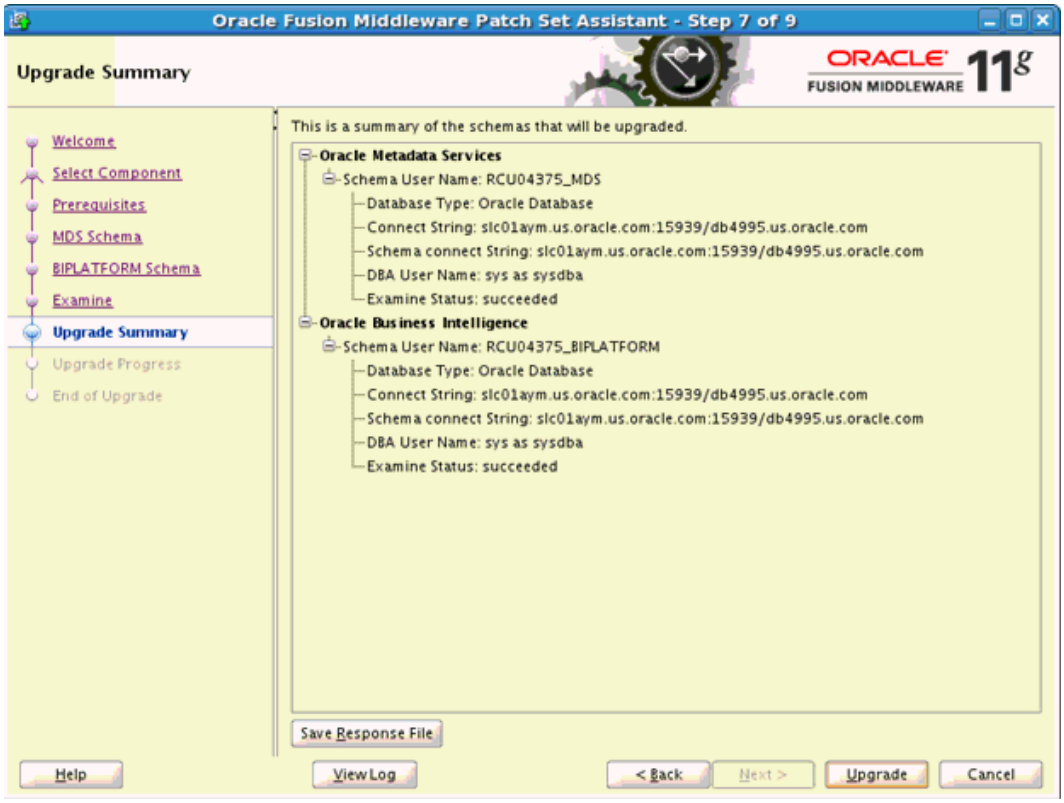

Oracle Fusion Middleware Patch Set Assistant - Step 2 of 9
Select Component
ORACLE FUSION MIDDLEWARE 11g
Welcome
Select Component
Prerequisites
MDS Schema
BIPLATFORM Schema
Examine
Upgrade Summary
Upgrade Progress
End of Upgrade
Select one component to upgrade. Dependencies will be automatically selected.
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

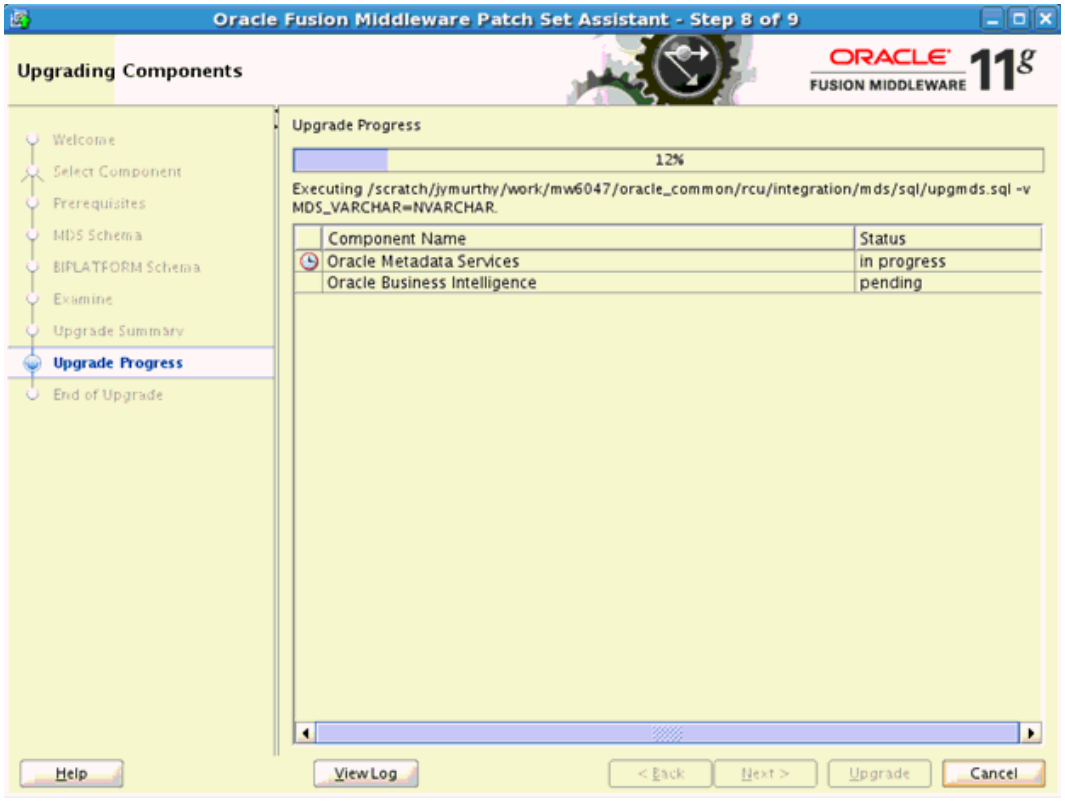

Oracle Fusion Middleware Patch Set Assistant - Step 3 of 9
Prerequisites
ORACLE FUSION MIDDLEWARE 11g
Welcome
Select Component
Prerequisites
MDS Schema
BIPLATFORM Schema
Examine
Upgrade Summary
Upgrade Progress
End of Upgrade
Check the boxes indicating the prerequisites have been met in order to continue.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

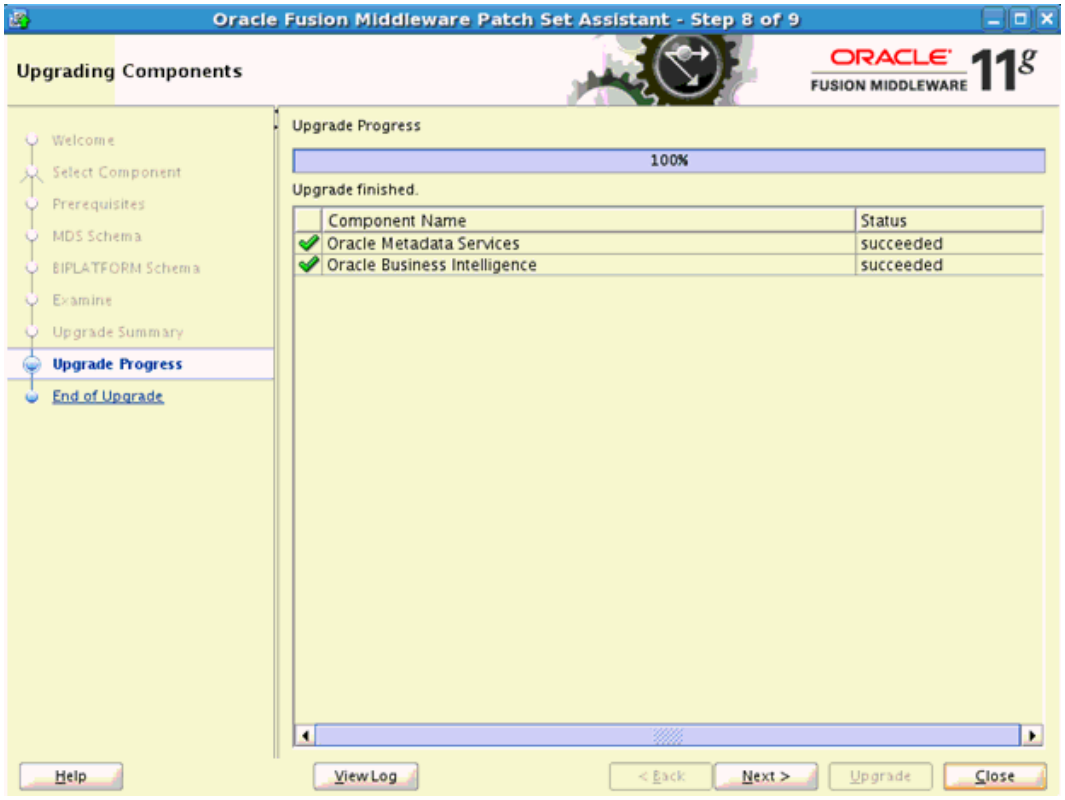

Oracle Fusion Middleware Patch Set Assistant - Step 4 of 9
MDS Schema
ORACLE FUSION MIDDLEWARE 11g
Welcome
Select Component
Prerequisites
MDS Schema
BIPLATFORM Schema
Examine
Upgrade Summary
Upgrade Progress
End of Upgrade
Specify the database containing the MDS schema that you want to upgrade and enter 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

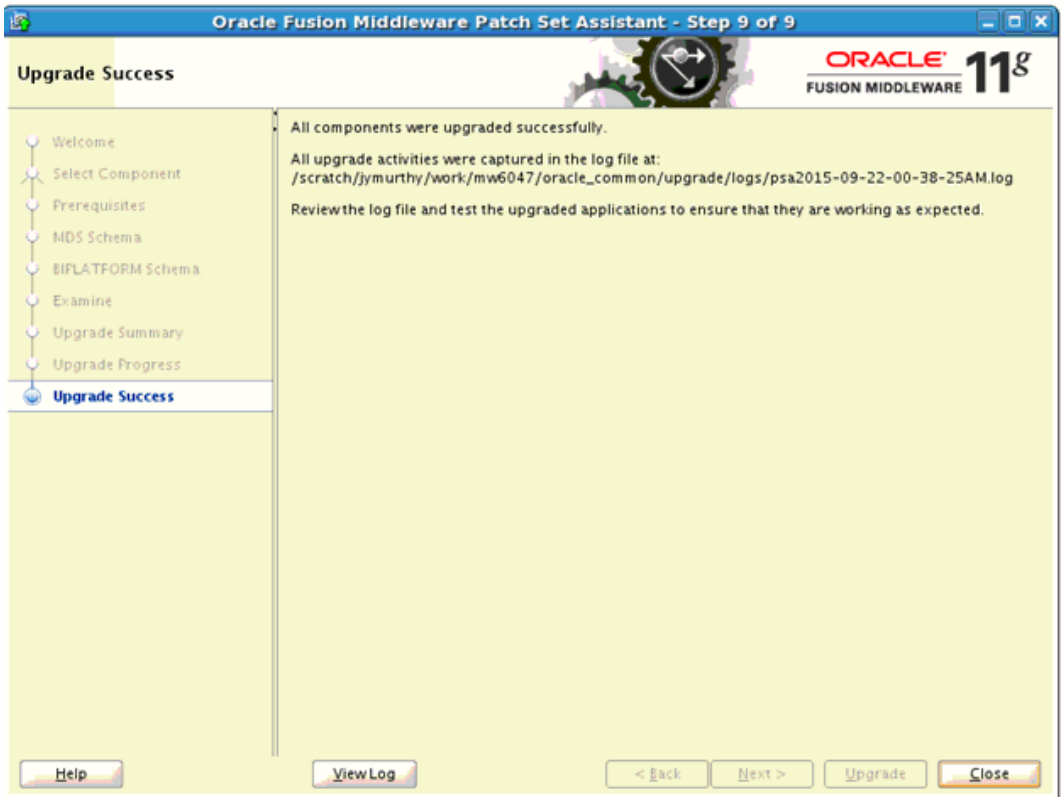

Oracle Fusion Middleware Patch Set Assistant - Step 5 of 9
BIPLATFORM Schema
ORACLE FUSION MIDDLEWARE 11g
Welcome
Select Component
Prerequisites
MDS Schema
BIPLATFORM Schema
Examine
Upgrade Summary
Upgrade Progress
End of Upgrade
Specify the database containing the BIPLATFORM schema that you want to 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


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
100%
Upgrade finished.
Component Name
Status
Oracle Metadata Services
succeeded
Oracle Business Intelligence
succeeded
Help
View Log
< Back
Next >
Upgrade
Close

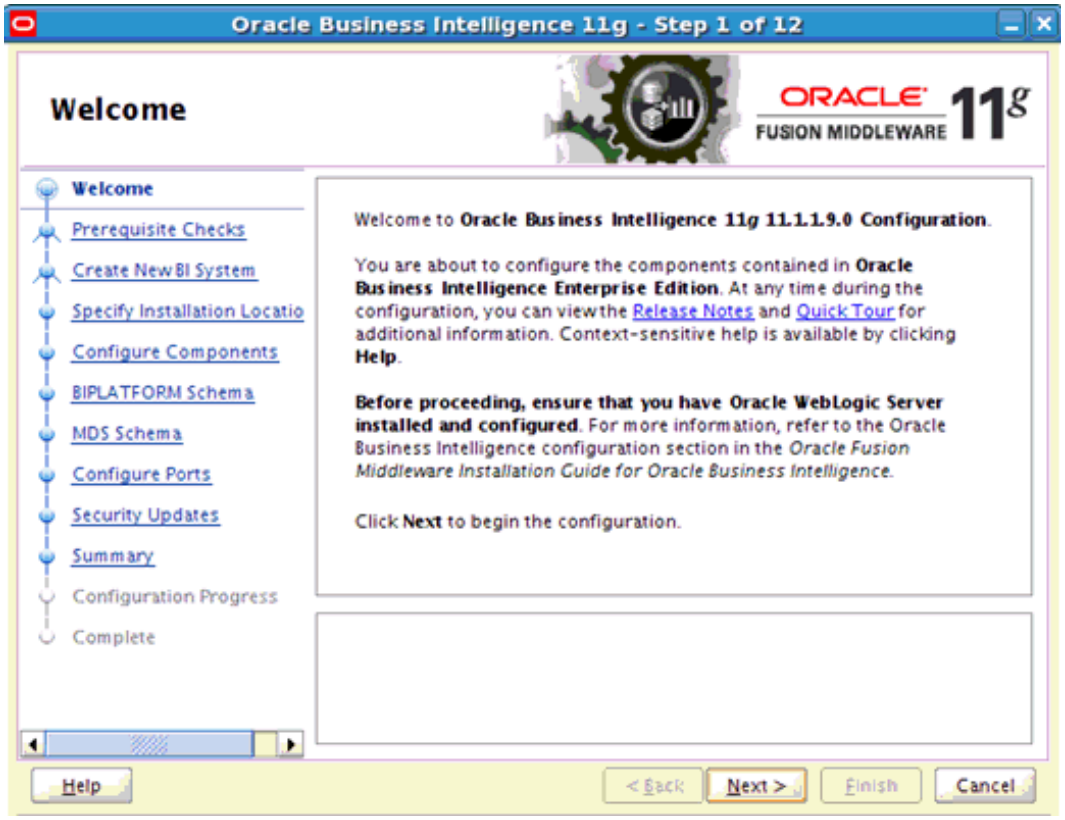


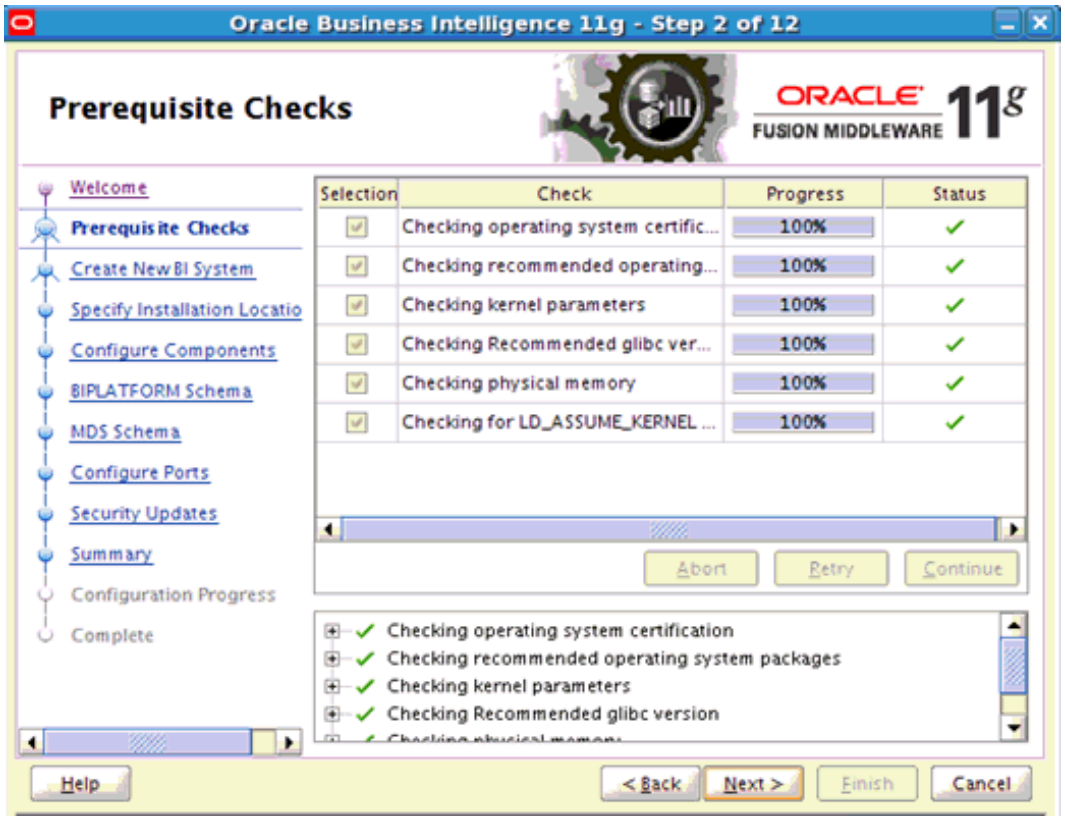
7. Run the Configuration Assistant to update the BI domain as follows:

   - Start the Node Manager and Administration Server.
   - At the command line, enter the following:

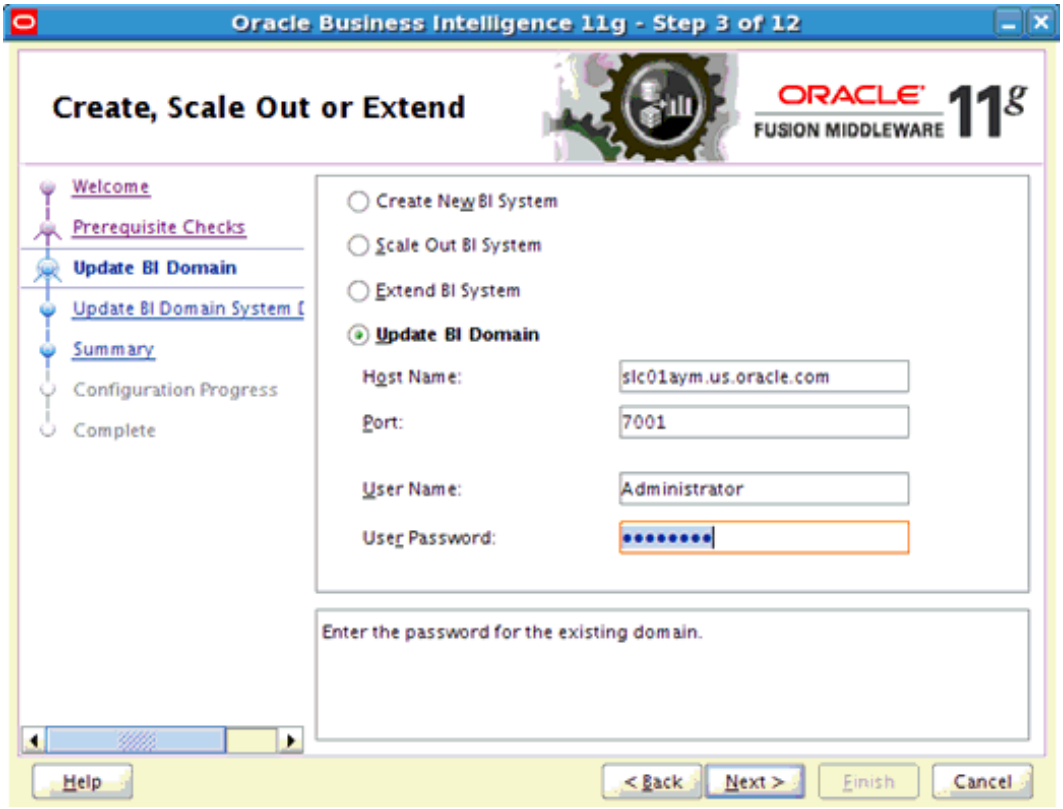
     ```
     On UNIX:
     ORACLE_HOME/bin/config.sh

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

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



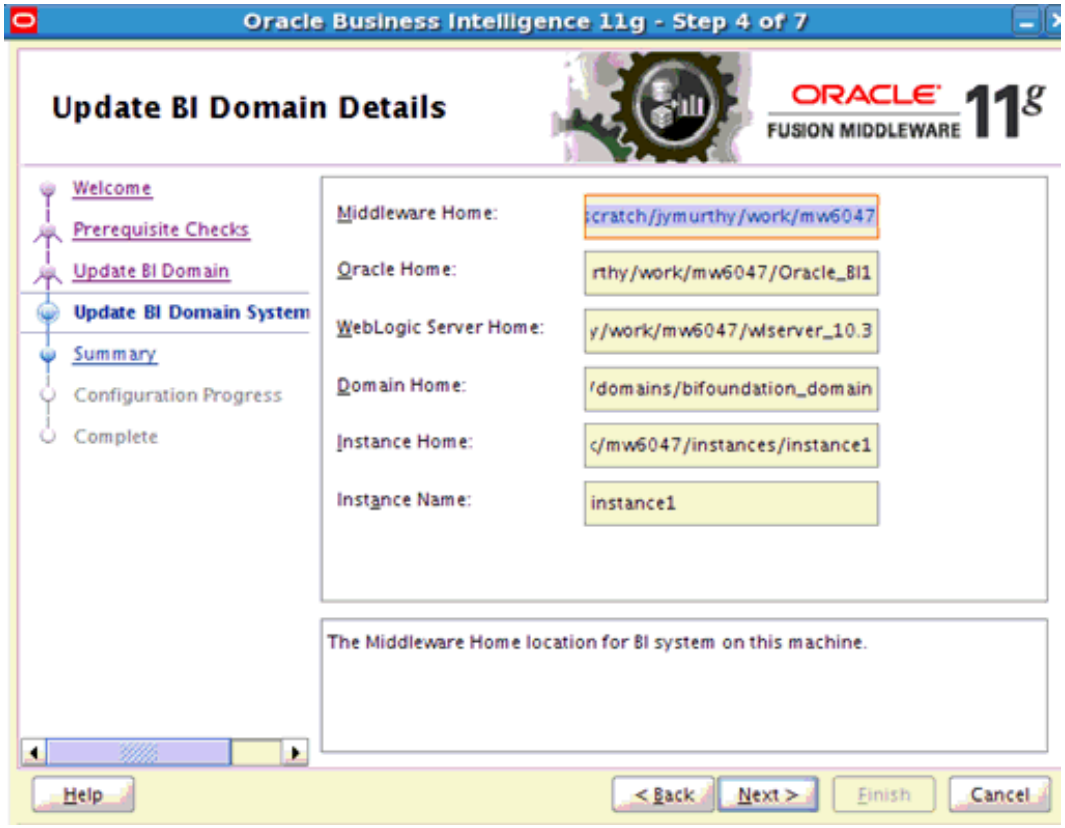


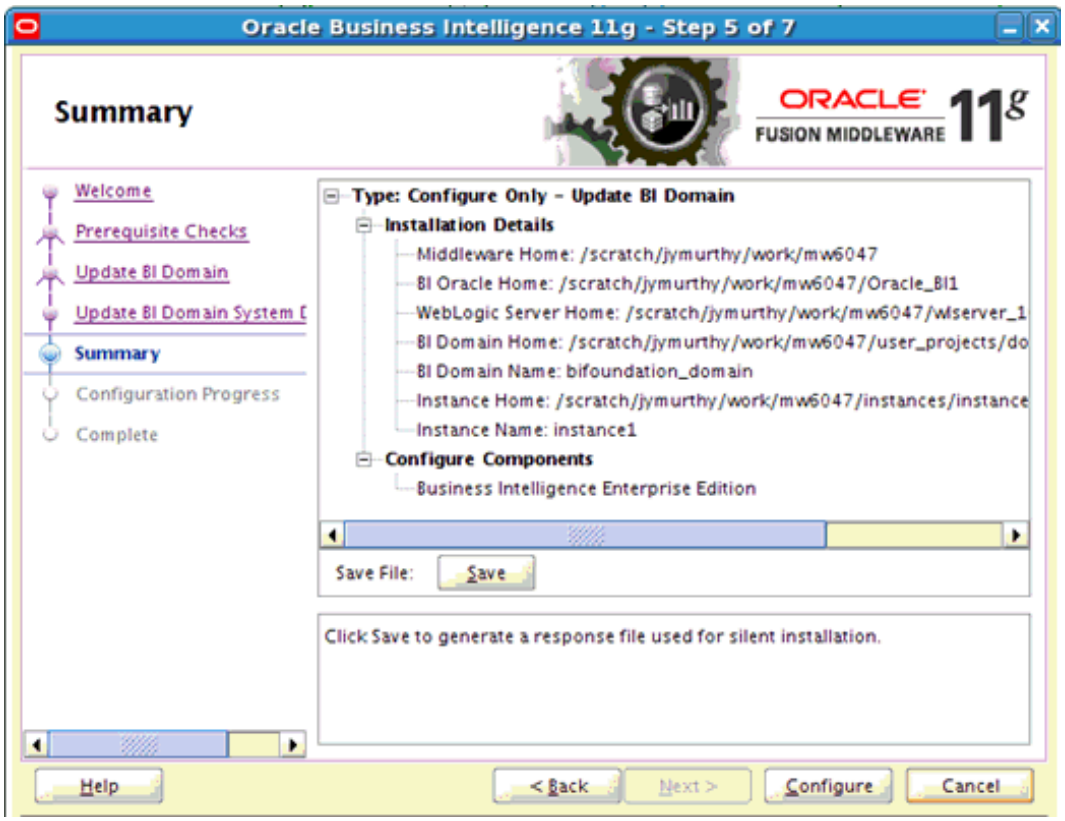
9. On the Create, Scale Out, or Extend screen, select **Update BI Domain**.



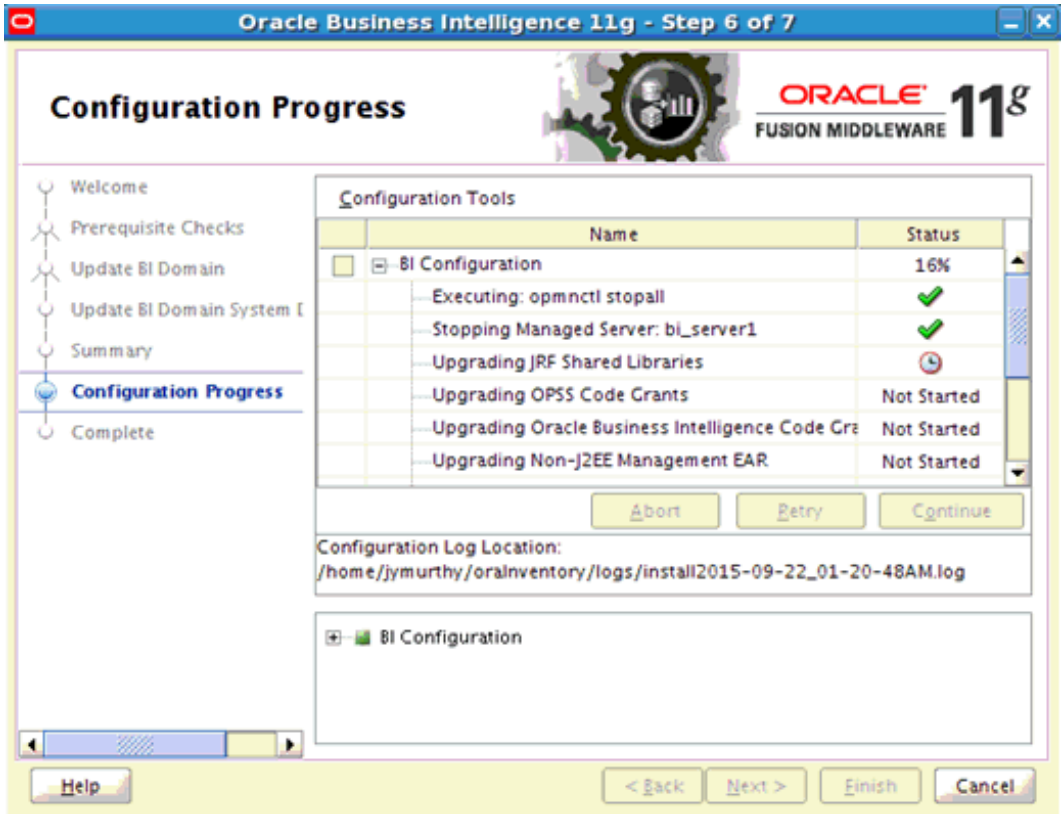
10. Specify the host name, port number, user name, and password for the Administration Server on the system to update and click **Next**.

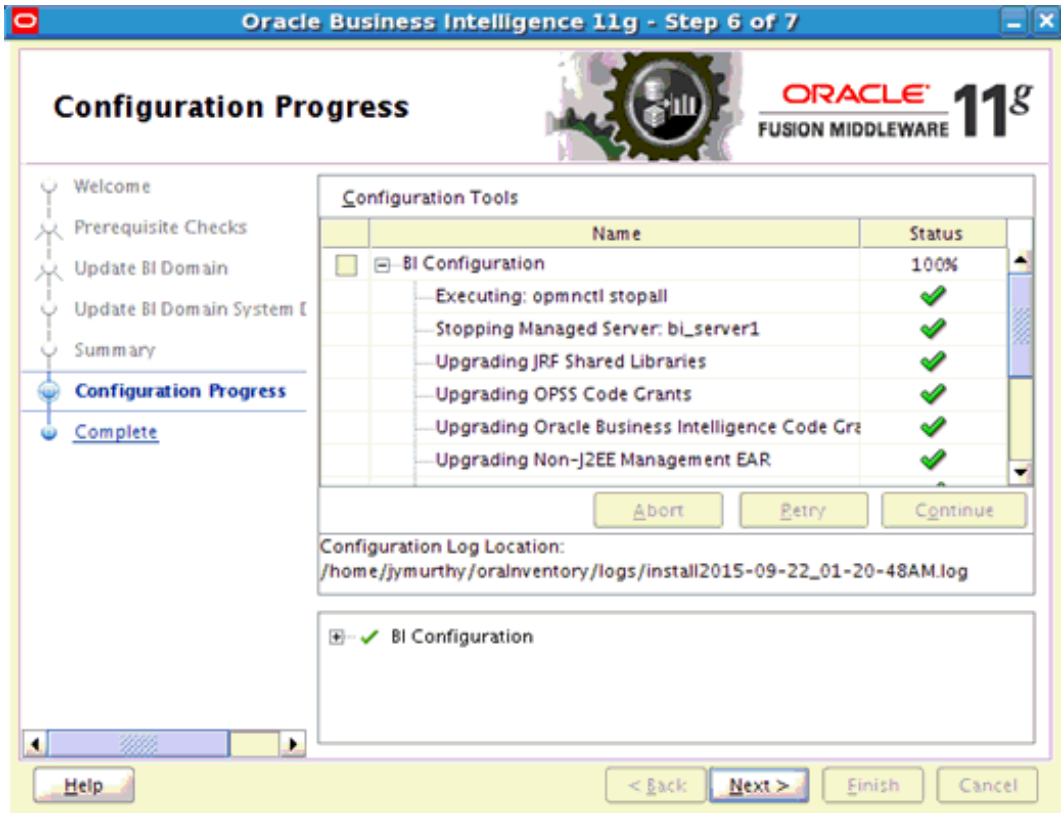
11. On the Update BI Domain Details screen, verify that appropriate directories are specified for each of the Home fields and click **Next**.



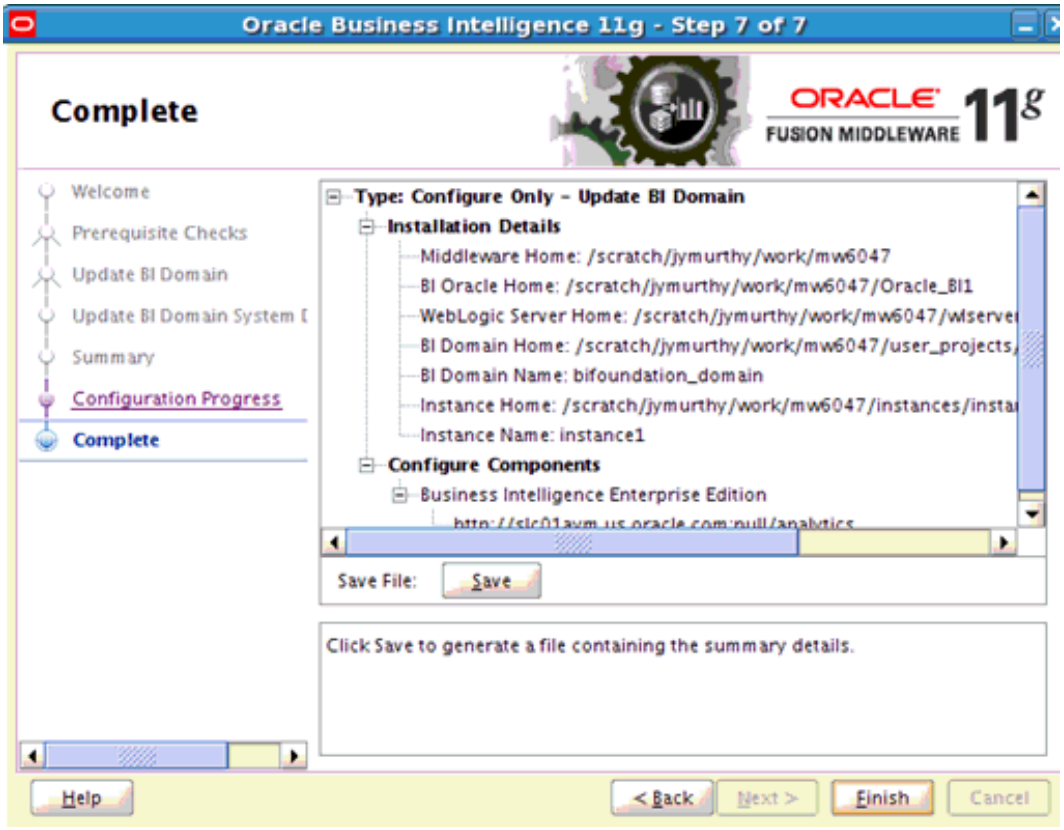


The progress of the update process is shown on the Configuration Process screen.





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



Upgrading Oracle Data Integrator From 11.1.1.7.0 To 11.1.1.9.0

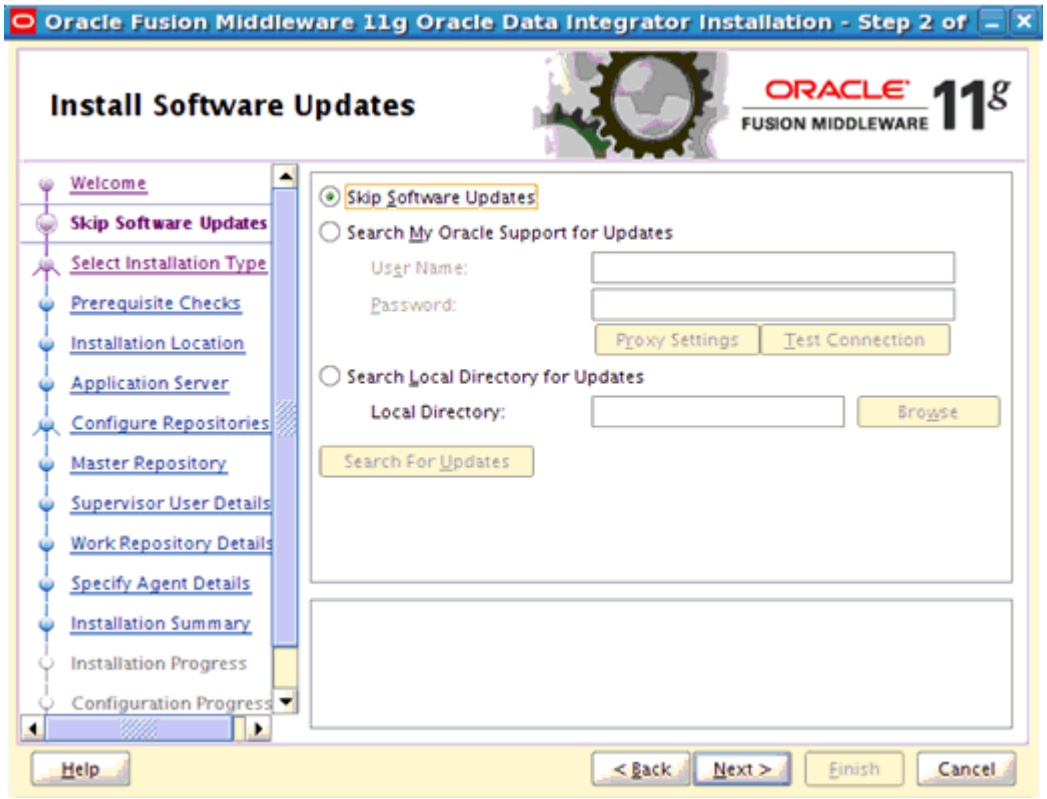
Use these instructions to upgrade Oracle Data Integrator (ODI) from 11.1.1.7.0 to 11.1.1.9.0.

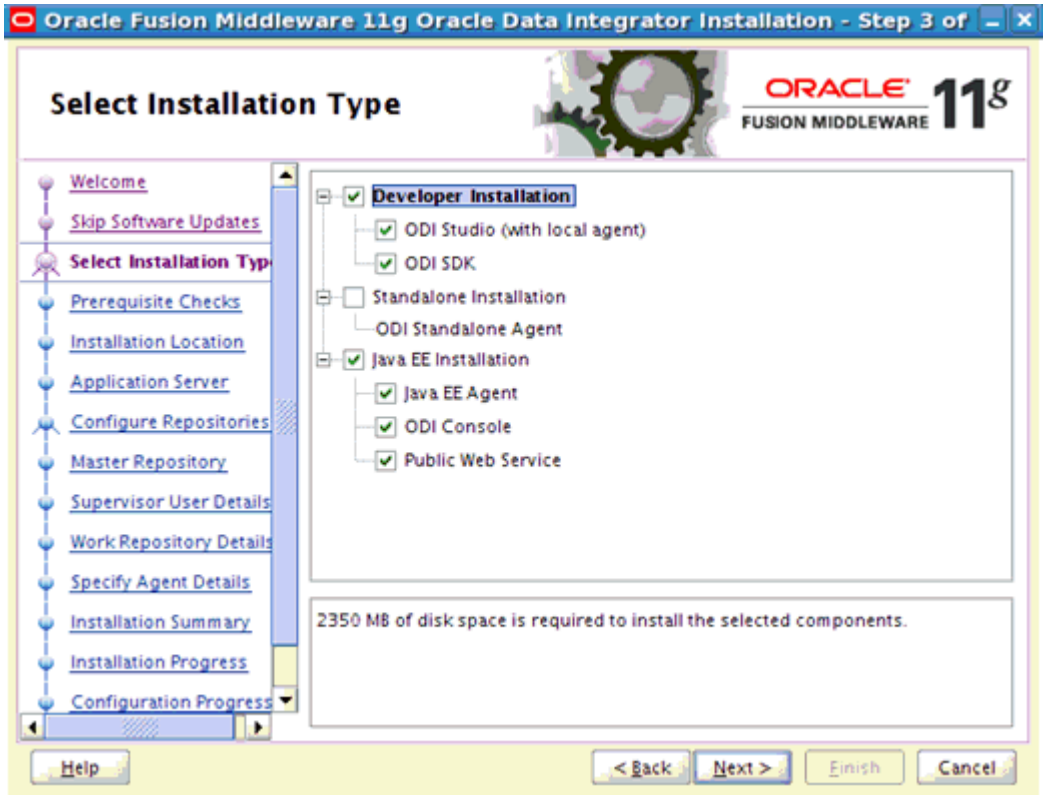
To upgrade ODI from 11.1.1.7.0 to 11.1.1.9.0:

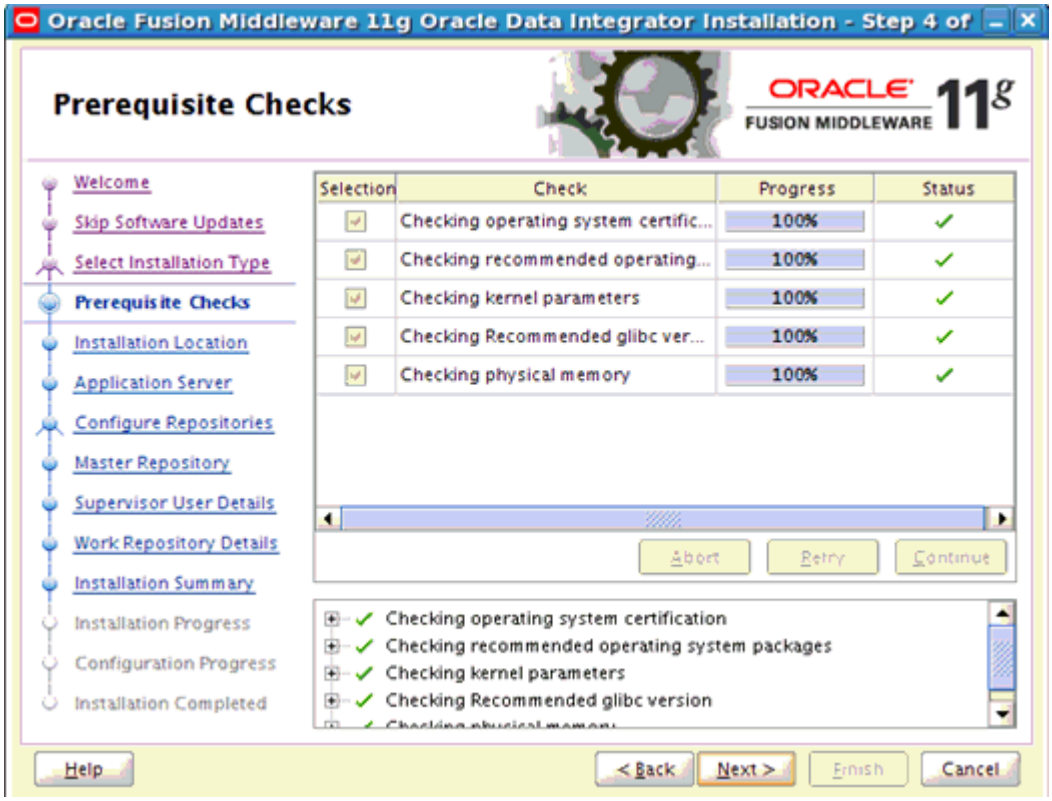
1. Perform the following general pre-patch tasks:
   - Stop all WebLogic Servers, Node Manager, OPMN, and OPMN-managed system components that are part of all Oracle BI domains that use the Middleware Home that you must patch.
   - On Windows systems, stop the Oracle WebLogic NodeManager (name) component.
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:

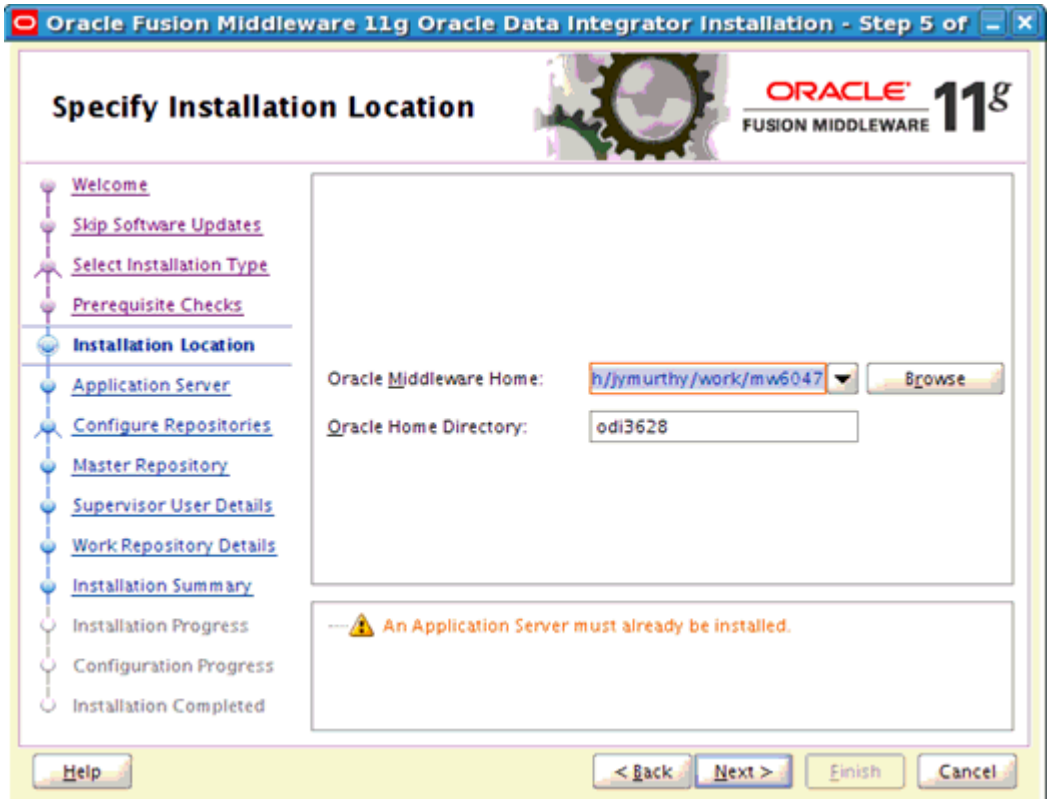
```
[aime1@slc01aym Disk1]$ ./runInstaller -jreLoc $ORACLE_HOME/jdk -invPtrLoc
$ORACLE_HOME/oraInst.loc
```


Oracle Fusion Middleware 11g Oracle Data Integrator Installation - Step 1 of
Welcome
ORACLE
FUSION MIDDLEWARE 11g
Welcome
Install 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
Welcome to Oracle Data Integrator 11g Installer.
You are about to install the applications and components contained in the Oracle Data Integrator (ODI) release 11.1.1.9.0.
If you plan to install any of the ODI Java EE components, make sure that Oracle WebLogic Server 11g or an application server is installed and configured in an Oracle Middleware Home Directory.
You must create an ODI repository using the Repository Configuration Utility (RCU) or the ODI Studio in order to run the Repository Configuration steps.
Context-sensitive help is available by clicking Help.
Copyright (c) 1999, 2015, Oracle and/or its affiliates. All rights reserved.
Help
< Back
Next >
Finish
Cancel

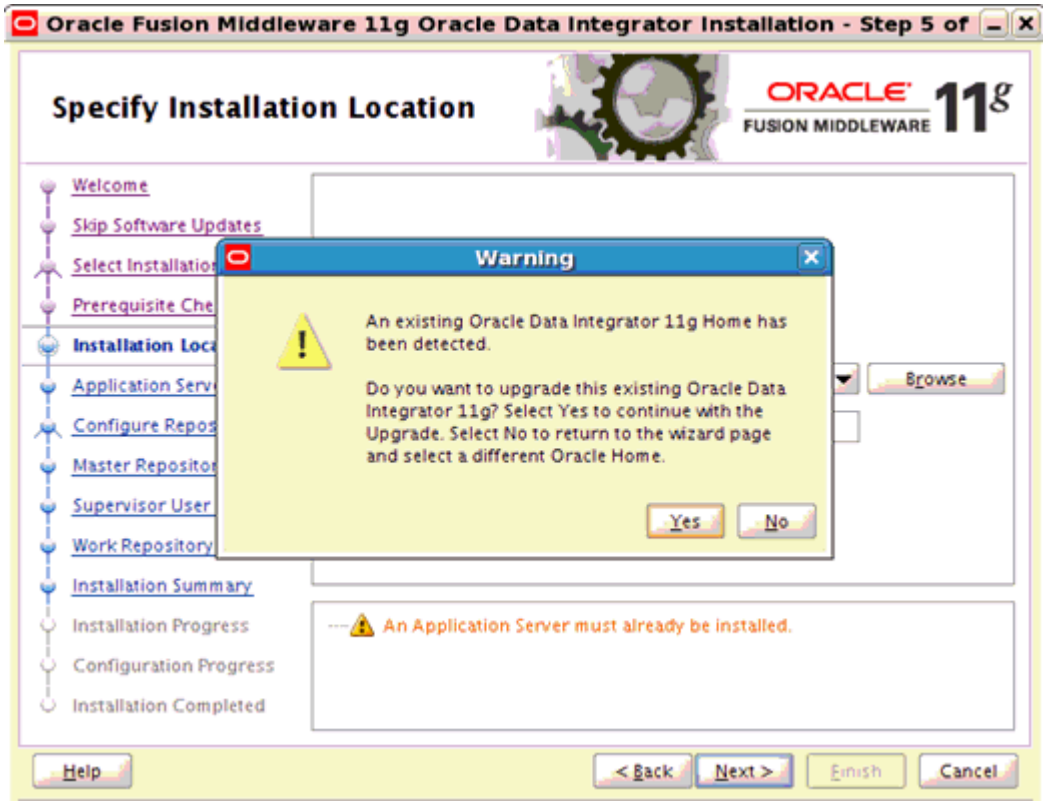

Oracle Fusion Middleware 11g Oracle Data Integrator Installation - Step 2 of
Install Software Updates
ORACLE
FUSION MIDDLEWARE 11g
Welcome
Skip Software Updates
Select Installation Type
Prerequisite Checks
Installation Location
Application Server
Configure Repositories
Master Repository
Supervisor User 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

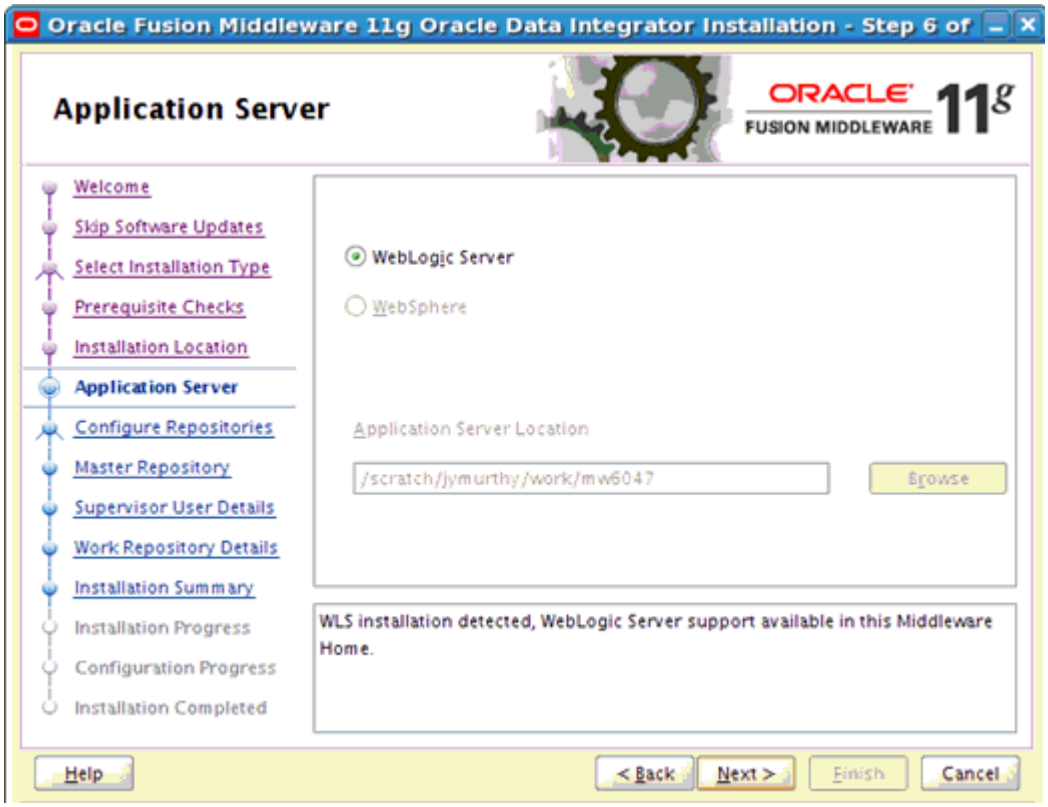

Oracle Fusion Middleware 11g Oracle Data Integrator Installation - Step 3 of
Select Installation Type
ORACLE FUSION MIDDLEWARE 11g
Welcome
Skip Software Updates
Select Installation Type
Prerequisite Checks
Installation Location
Application Server
Configure Repositories
Master Repository
Supervisor User 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

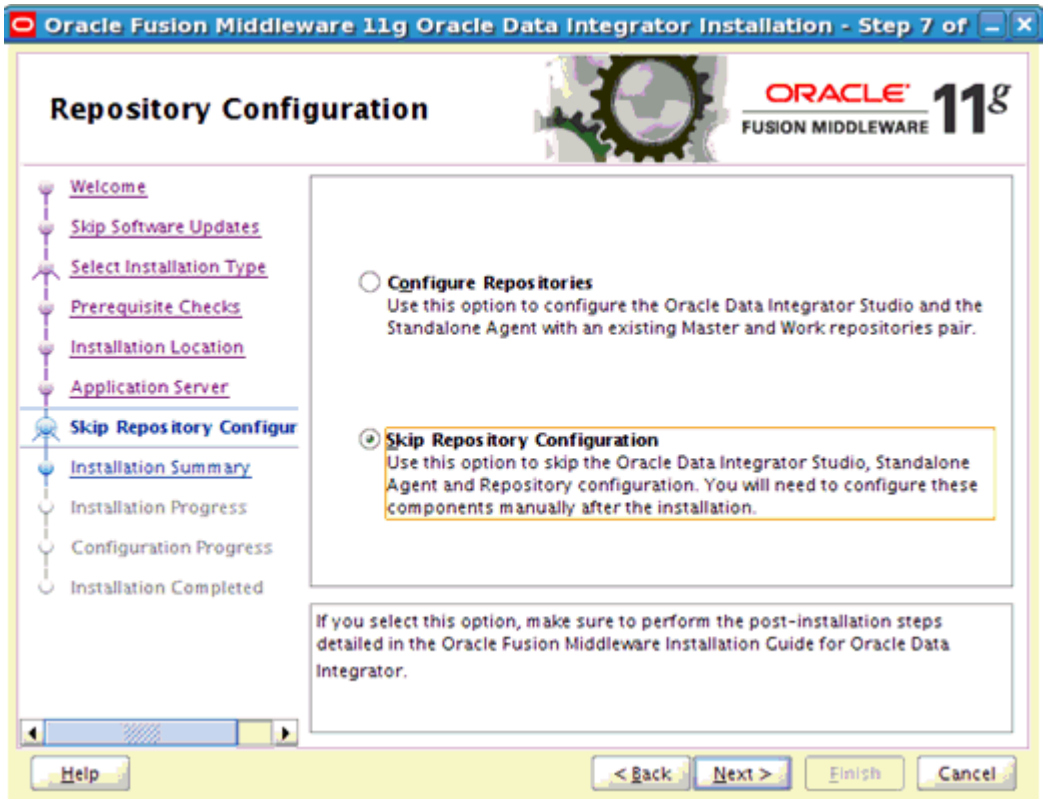

Oracle Fusion Middleware 11g Oracle Data Integrator Installation - Step 4 of
Prerequisite Checks
ORACLE FUSION MIDDLEWARE 11g
Welcome
Skip Software Updates
Select Installation Type
Prerequisite Checks
Installation Location
Application Server
Configure Repositories
Master Repository
Supervisor User Details
Work Repository Details
Installation Summary
Installation Progress
Configuration Progress
Installation Completed
Selection
Check
Progress
Status
Checking operating system certific...
Checking recommended operating...
Checking kernel parameters
Checking Recommended glibc ver...
Checking physical memory
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

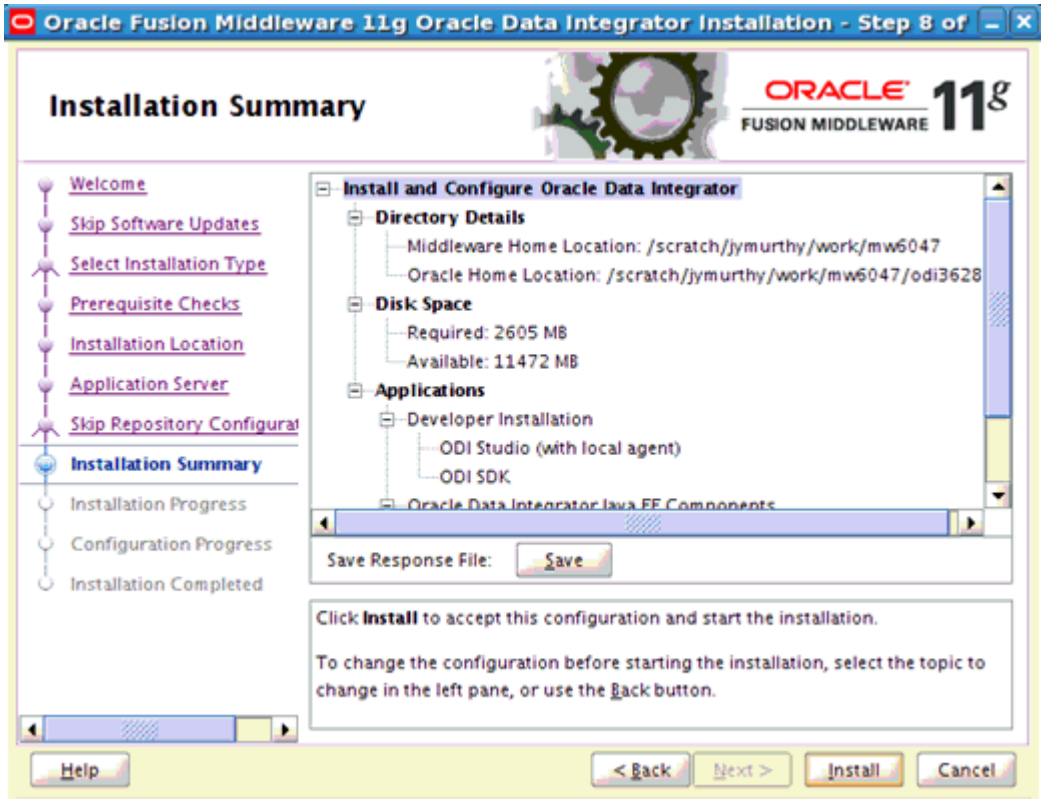


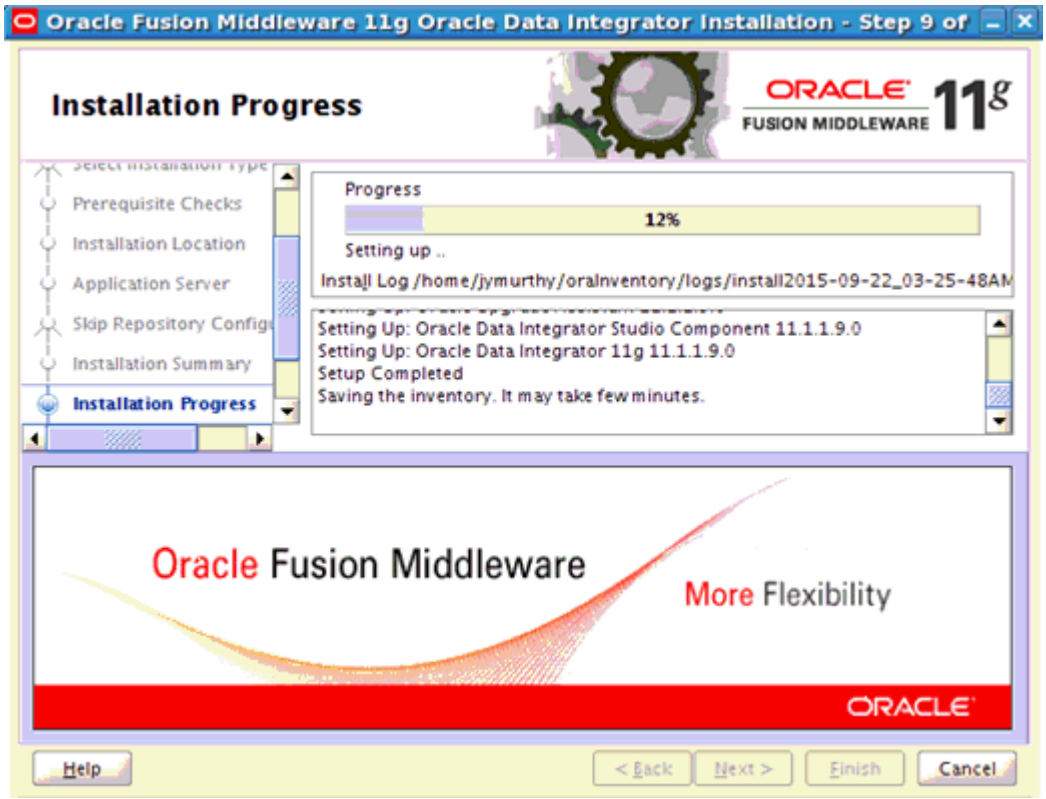
5. Click **Yes** and then **Next**.

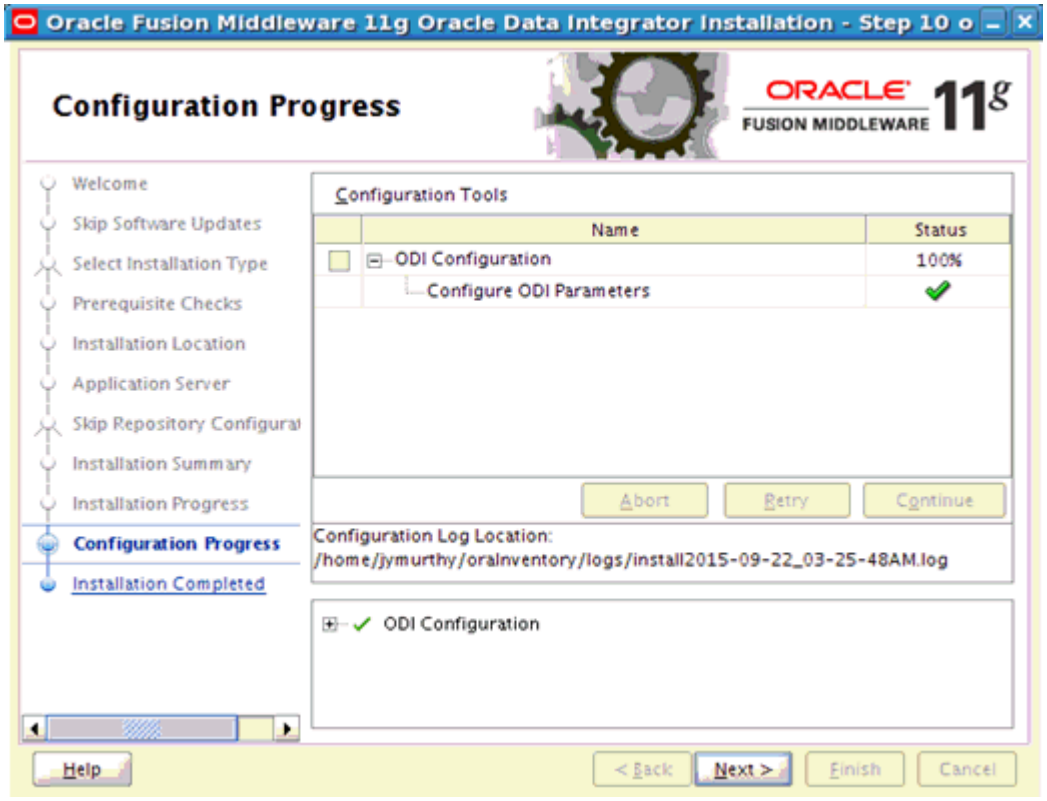


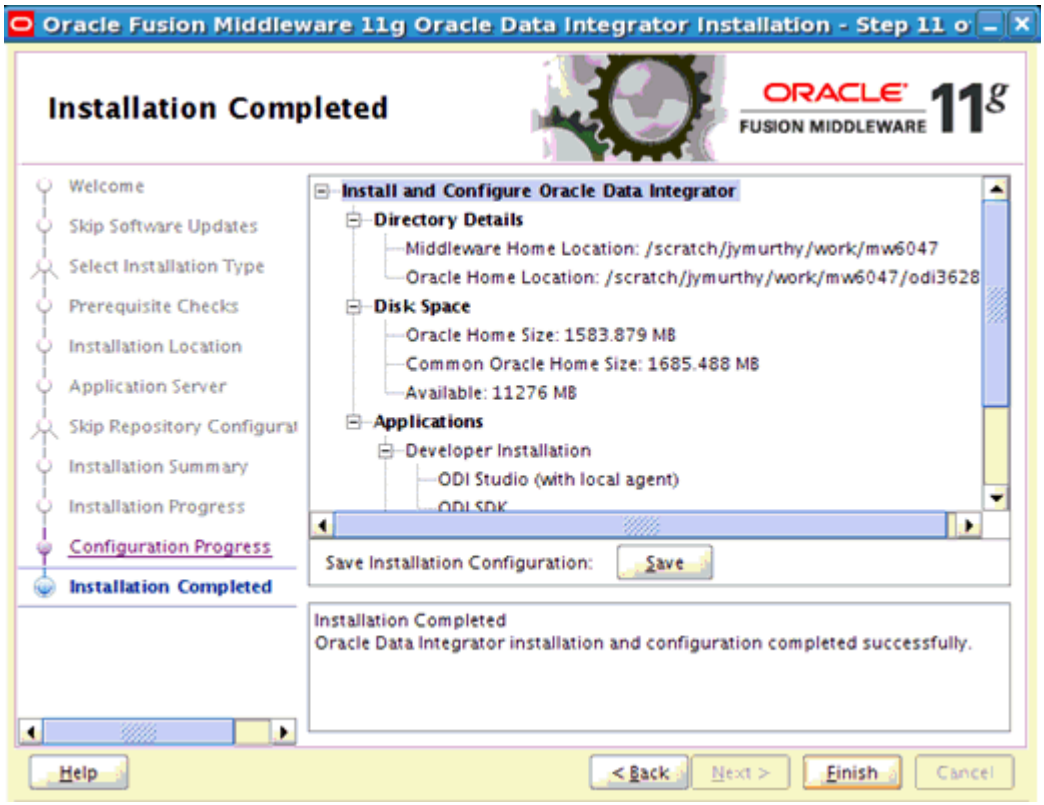

Oracle Fusion Middleware 11g Oracle Data Integrator Installation - Step 6 of
Application Server
ORACLE FUSION MIDDLEWARE 11g
Welcome
Skip Software Updates
Select Installation Type
Prerequisite Checks
Installation Location
Application Server
Configure Repositories
Master Repository
Supervisor User Details
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





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

2

Oracle BI Applications Infrastructure, Metadata, and Schema Updates

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

Topics

Downloading BI Applications 11.1.1.10.1 Software and Files

Use this instruction to download BI Applications 11.1.1.10.1 software and files.

Download the BI Applications 11.1.1.10.1 installer, the BI Applications Repository Creation Utility (RCU) 11.1.1.10.1, and the FMW Platform Patch zip files from the Oracle Business Intelligence Applications 11.1.1.10.1 Media Pack available on Oracle Software Delivery Cloud.

Upgrading BI Applications Binaries to Release 11.1.1.10.1

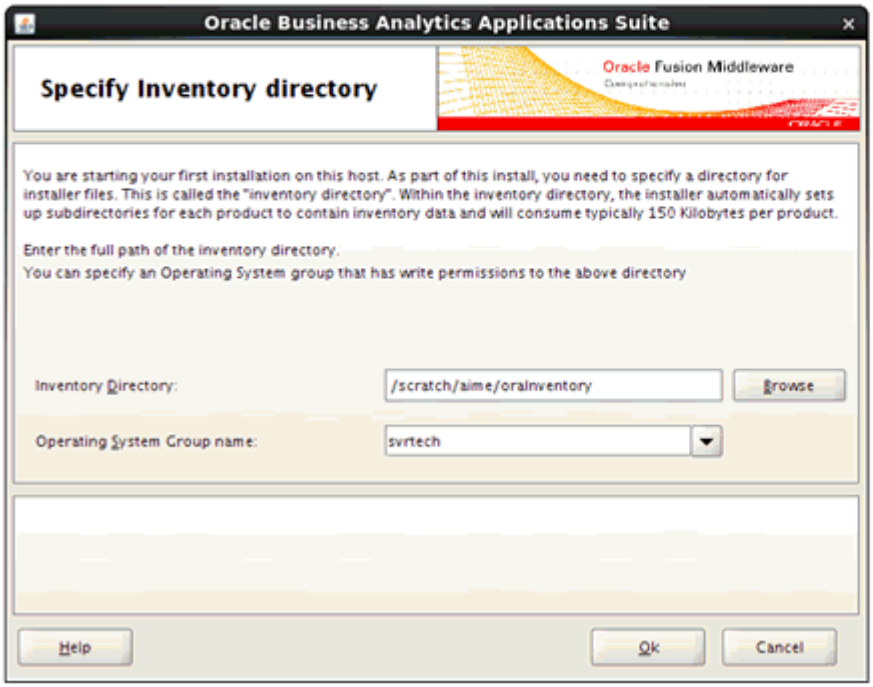
Use these instructions to upgrade the Oracle BI Applications binaries to release 11.1.1.10.1.

To upgrade BI Applications binaries:

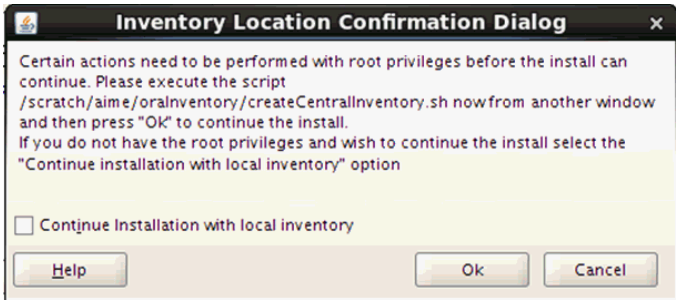
1. Shut down the WebLogic Administration Server, BI and ODI Managed Servers, and Node Manager. Shut down BI processes using Oracle Process Manager and Notification Server (OPMN).

2. On the machine that hosts the Middleware Home and BI Oracle Home for the BI Applications 11.1.1.9.2 environment, run the BI Applications 11.1.1.10.1 installer. On Windows, run: `setup.exe –jreLoc <JDK or JRockit location>`, and on Linux or UNIX, run: `./runInstaller -jreLoc <JDK or JRockit location>`

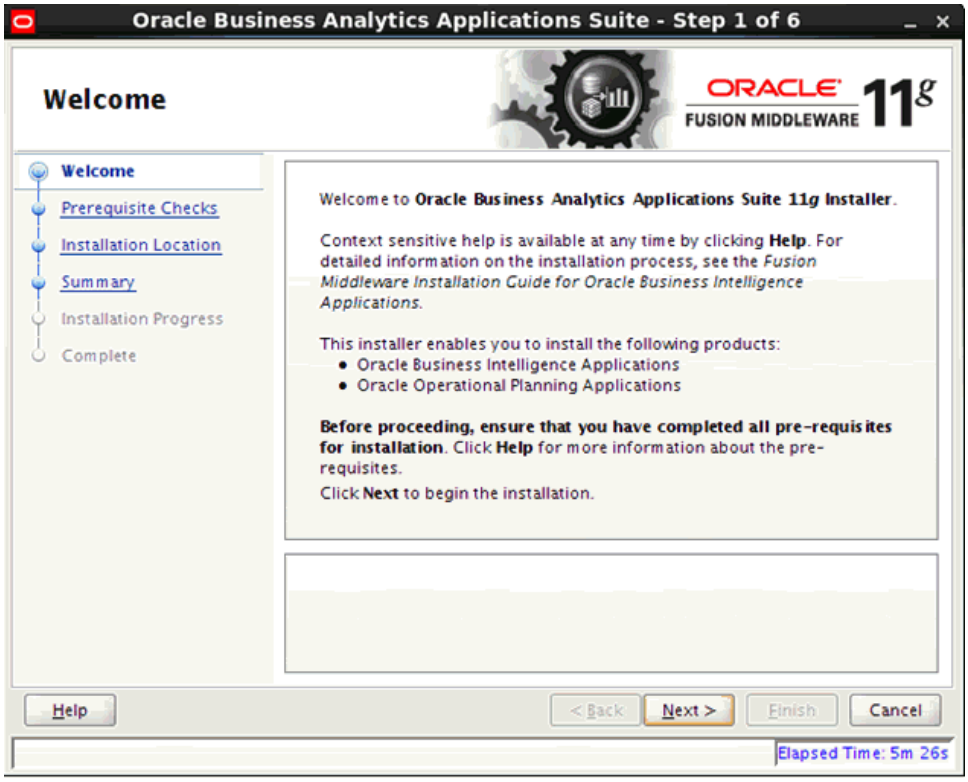
```
[aime@slc08ypk Disk1]$ ./runInstaller -jreLoc /scratch/aime/jdk1.6.0_35/
Starting Oracle Universal Installer...

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
```



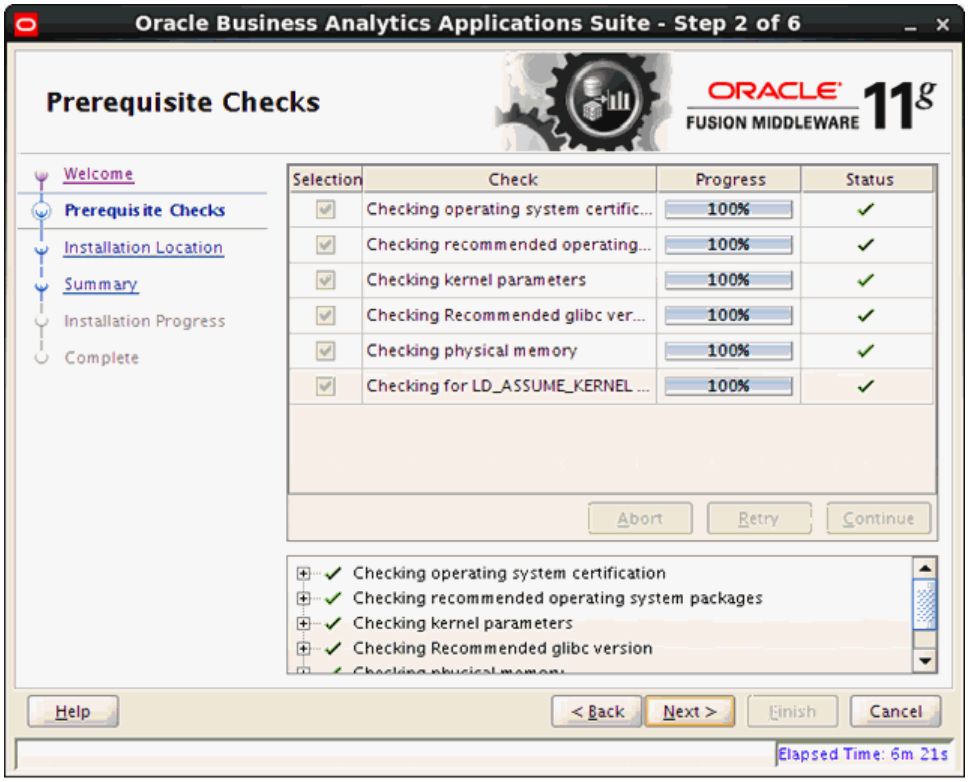
3. Select the inventory directory and Operating System group name. Click Ok. The next screen prompts you to run the scripts with root access, as shown in the following image.



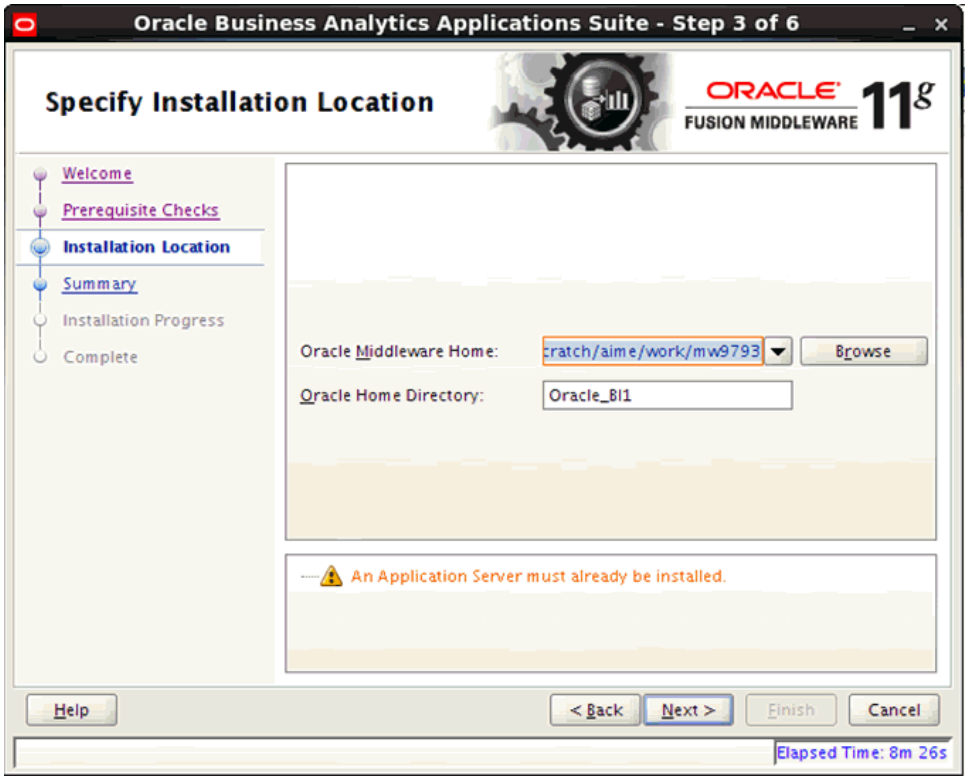
4. Click **Next** in the Welcome dialog.



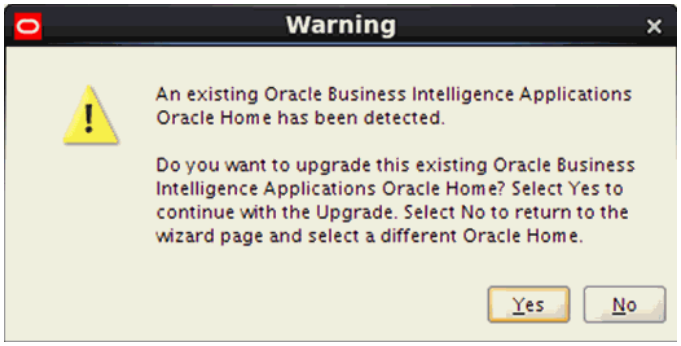
5. Click **Next** in the Prerequisite Checks dialog.



6. The Specify Installation Location dialog displays the MW_HOME and BI_ORACLE_HOME values for your existing BI Applications 11.1.1.9.2 environment. Verify the locations and click **Next**.



7. When prompted to confirm whether you want to upgrade the existing BI_ORACLE_HOME, click **Yes**.



8. On the Summary dialog, review the installation details and click **Install** to proceed.
9. Click **Next** on the Installation Progress screen when the installation is complete.
10. Click **Finish** on the Complete screen to complete the installation.

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

Deploying External Storage

Apply the script mentioned in this topic to deploy external storage.

When weblogic servers are down, execute the following script:

Run following command from `ORACLE_HOME/common/bin directory`:

```
./wlst.sh ORACLE_HOME/biacm/scripts/deployExtStorage.py
{ORACLE_HOME} {DOMAIN_HOME}
```

For example:

```
cd /work/mw/Oracle_BI1/common/bin./wlst.sh /work/mw/Oracle_BI1/
biacm/scripts/deployExtStorage.py /work/mw/Oracle_BI1 /work/mw/
user_projects/domains/bifoundation_domain
```

Applying Fusion Middleware Platform Patches for BI Applications 11.1.1.10.1

Use these instructions to apply Fusion Middleware platform patches for BI Applications 11.1.1.10.1.

The Fusion Middleware platform patches are available for download as part of the Oracle Business Intelligence Applications 11.1.1.10.1 media pack. To use BI Applications 11.1.1.10.1, you must have Oracle BI EE release 11.1.1.9.0 or later. Bundle Patches are included and will be applied to BI EE 11.1.1.9.0. If you have already applied higher BI EE Bundle Patch as compared to the Bundle patches supplied with media pack, then the BI EE patches will not be applied as part of this step. The release of ODI supported for BI Applications 11.1.1.10.1 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 11.1.1.10.1 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`
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 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 this 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

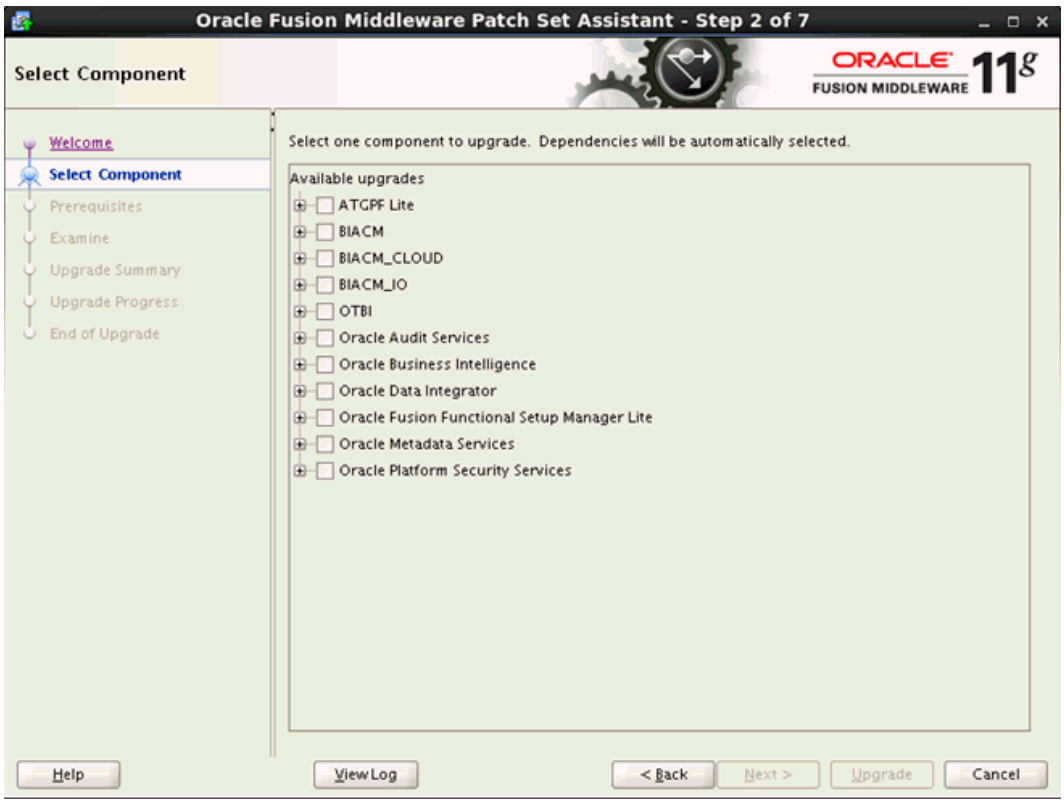
Follow these instructions to upgrade the BIACOMP schema.

To upgrade the BIACOMP schema:

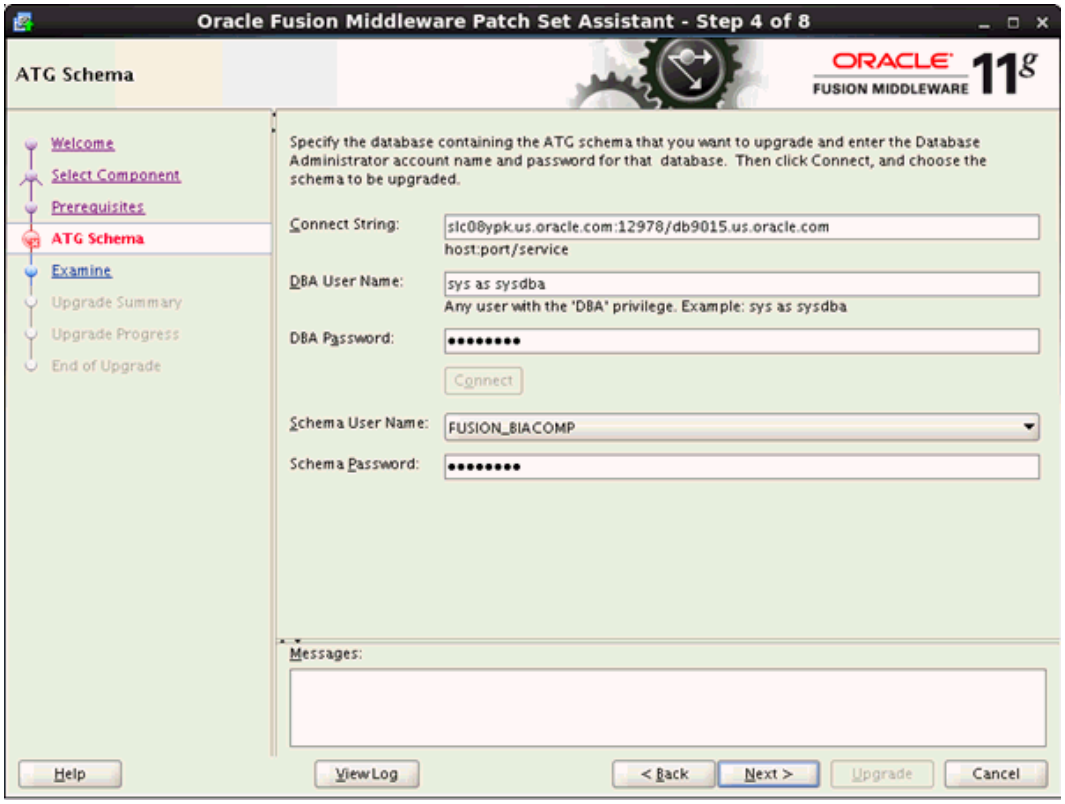
1. Take backup of BIACOMP schema
2. Log in to the database as `sys`.
3. Run the following SQL query:

```
update schema_version_registry set COMP_ID = 'ATGLITE', MR_NAME='ATGLITE',
MR_TYPE='ATGLITE' where COMP_ID ='ATG';
```

4. Go to `mw_home/BI_ORACLE_HOME/bin` and invoke PSA. For example, for Linux, `<BI_Oracle_Home>/bin/psa` and for windows `<BI_Oracle_Home>\bin \psa.sh`.



5. Enter database details like database host, port, and SID in PSAdialog. Enter `sys as sysdba` as username and enter `sys` password.



6. Click on **<button>** to find BIACOMP schema name and select that. Click **Next**.
7. Next screen will show components listed to be upgraded. It will list entries **ATG, FSM, BIACM**, and **BIACM_IO**. Select them and click **Next**.

   PSA will upgrade those components in BIACOMP schema and display the success message.
8. Login 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/11.1.1.10.1/from11.1.1.9.2/
      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/11.1.1.10.1/from11.1.1.9.2/
      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 Deployment Changes

Follow these instructions to upgrade the deployment changes.

To upgrade deployment changes:

1. Run the `SetupBIAppsDWDBDataSource.py` script.

```
usage:

ORACLE_HOME=BI_ORACLE_HOME
MW_HOME=Middlewarehome location
$ORACLE_HOME/common/bin/wlst.sh $ORACLE_HOME/dwtools/scripts/
SetupBIAppsDWDBDataSource.py --DOMAIN_HOME_PATH $MW_HOME/user_projects/domains/
bifoundation_domain --BIAPPS_DW_DB_JDBCURL
jdbc:oracle:thin:@hostname.us.oracle.com:dbport/service --
BIAPPS_DW_DB_SCHEMA_USER <DW_user>
```

2. Run the following command to deploy the cloud replicator:

```
usage:

ORACLE_HOME=BI_ORACLE_HOME
MW_HOME=Middleware home location

$ORACLE_HOME/common/bin/wlst.sh $ORACLE_HOME/biacm/scripts/deployCloudRepLib.py
$ORACLE_HOME $MW_HOME/user_projects/domains/bifoundation_domain
```

3. Start all the servers.

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: The password is prompted after the process is started

   Optional Parameters:

   - **log.level** - default is INFO. Valid values are `FINEST, FINE, INFO, WARNING, SEVERE`.

Upgrading the RPD

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

To upgrade RPD using the BI Update Metatdata Tool:

1. Take a back-up of the RPD.
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 RPD:

```
<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: The password is prompted after the process is started.

```
Sep 03 2014 05:41:26 INFO : No bi admin password found in properties so will ask for it on std.in
Please enter the password for user weblogic :
welcomelu
```

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

Upgrading the Presentation Catalog

Use these instructions to upgrade the Presentation Catalog using the Upgrade Metadata Tool.

To upgrade the Presentation Catalog:

1. Take a back-up of the Presentation Catalog.
2. Create a writable directory where logs will be stored.

   For example, `C:\Webcat_Upgrade` or `WORKDIR_HOME/ Webcat_Upgrade`.
3. Run the following command to upgrade the Presentation Catalog:

```
<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=webcat log.file=<Work dir>/webcat.log log.level=INFO
work.dir=<writable work dir path>
```

   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=webcat log.file=/
WORKDIR_HOME/Webcat_Upgrade/webcat.log log.level=INFO work.dir=/ WORKDIR_HOME/
Webcat_Upgrade
```

The password is prompted after the process is started.

```
Sep 03 2014 05:41:26 INFO : No bi admin password found in properties so will ask for it on std.in
Please enter the password for user weblogic :
welcomelu
```

Optional Parameters:

- **log.level** - default is INFO. Valid values are `FINEST, FINE, INFO, WARNING, SEVERE`.

4. Restart all BI processes using Oracle Process Manager and Notification Server (OPMN).
5. It is recommended to update GUIDS in OBIEE.

Upgrading the ODI Repository

This section describes the steps to upgrade an existing BI Applications ODI Repository from release 11.1.1.9.2 to 11.1.1.10.1.

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, BI Applications Configuration Manager and the BI Applications instance of 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 11.1.1.9.2 ODI Repository

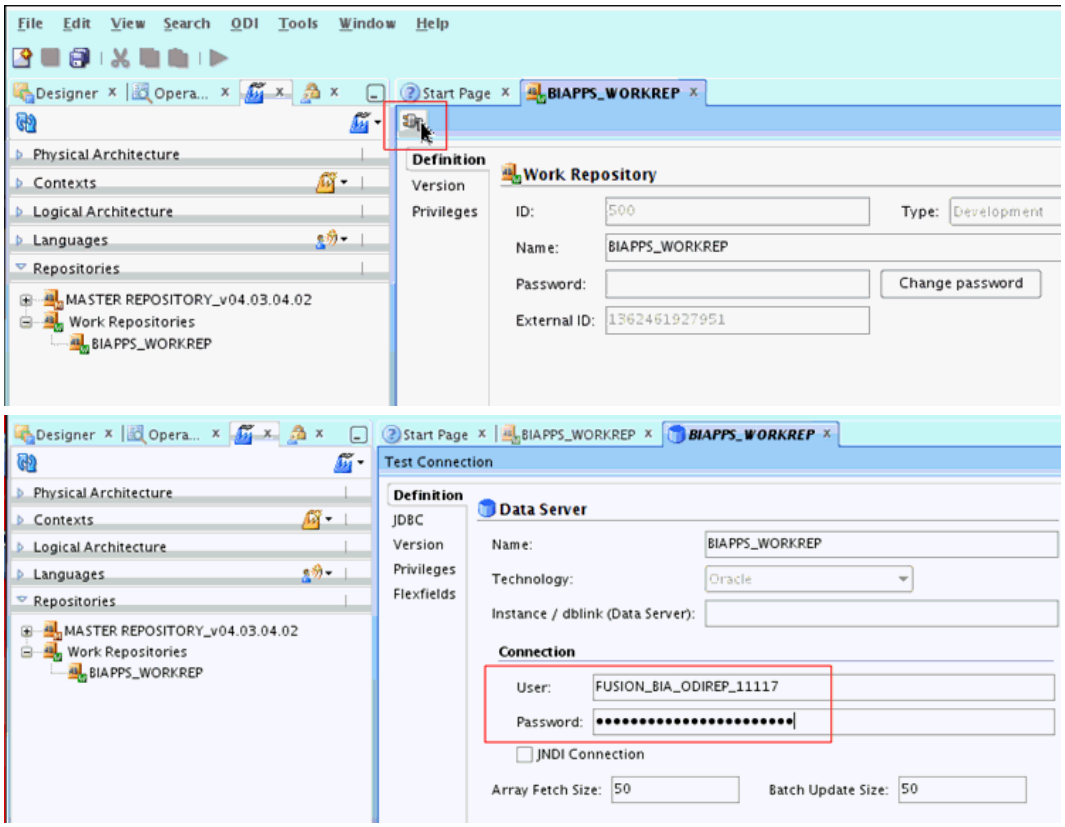
Follow these instructions to create a backup of the 11.1.1.9.2 ODI repository.

Use the Oracle Database Export and Import utility to export the ODI Repository for BI Applications 11.1.1.9.2 from the existing schema and import it into another schema. This will allow you to connect to the 11.1.1.9.2 ODI repository in case you need to reference it.

Create a connection in ODI to the 11.1.1.9.2 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 11.1.1.9.2:

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 and navigate to Topology > Repositories > 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.

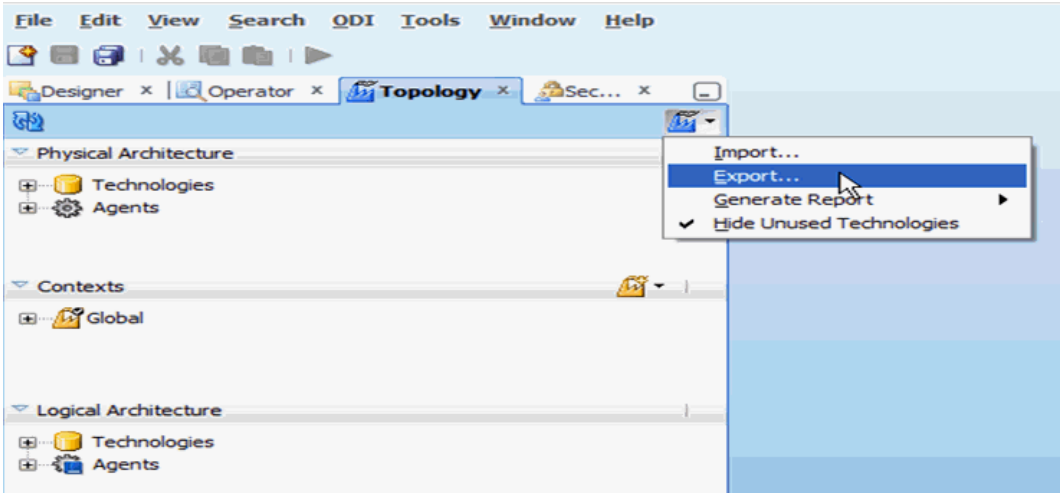
Exporting Content from the 11.1.1.9.2 ODI Repository

Use these instructions to export content from the 11.1.1.9.2 ODI repository.

To export content from the 11.1.1.9.2 ODI repository:

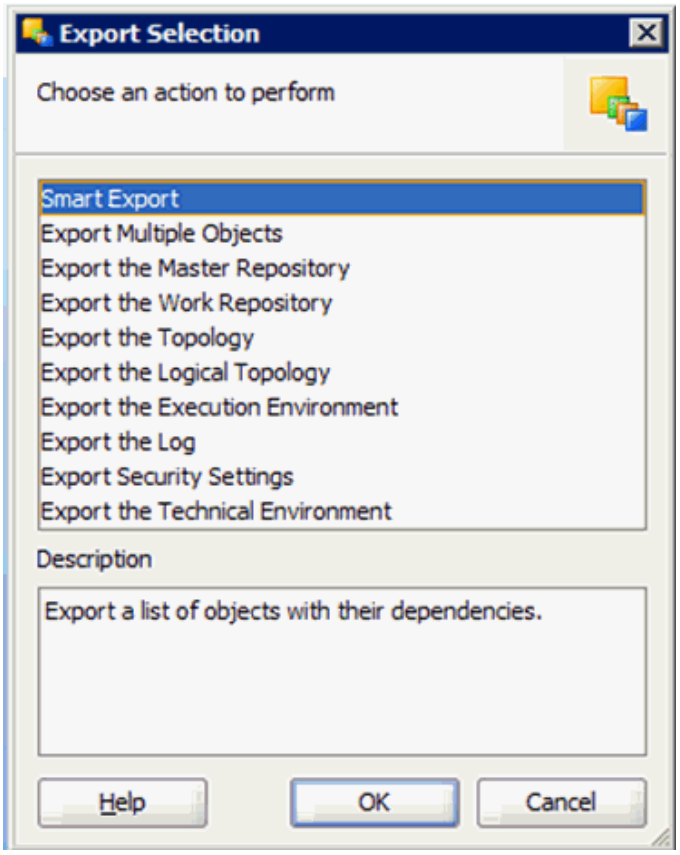
1. Launch the ODI Studio client and connect to the ODI repository for BI Applications 11.1.1.9.2. (do not connect to the backup of the ODI repository).
2. Navigate to the **Topology** tab. From the **Connect Navigator** (Topology icon drop-down on the top right side of the navigator pane), select **Export**.

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



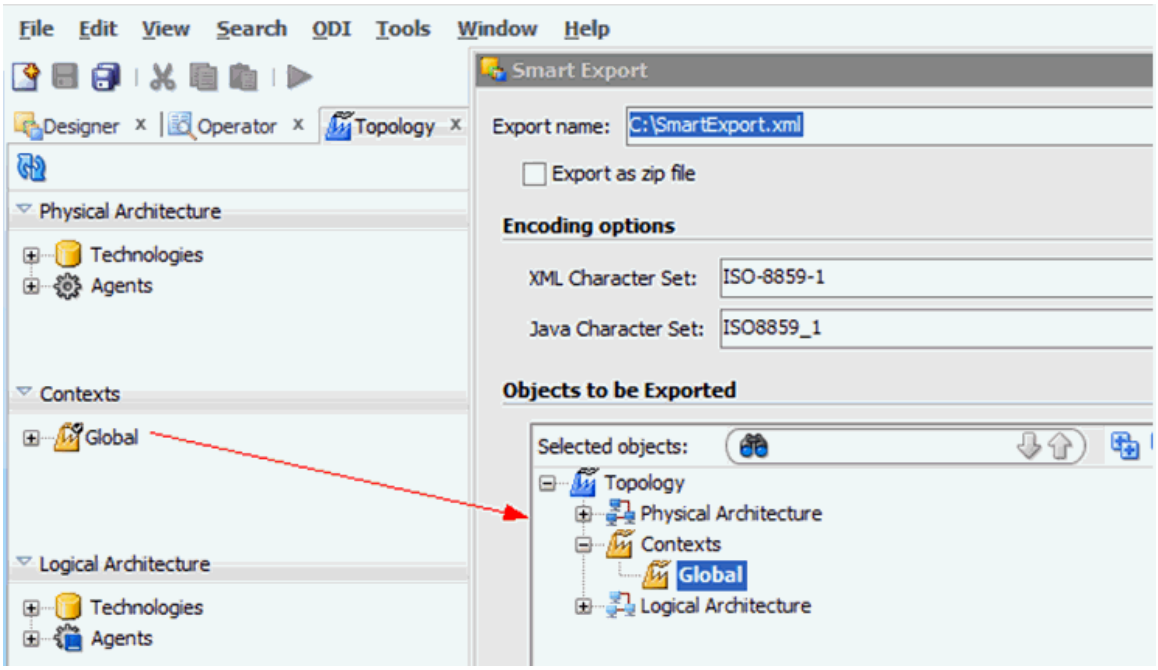
3. To export connections, complete the following steps:

   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 will export the logical and physical topology including assigned Datasource Num ID values and database connect details.

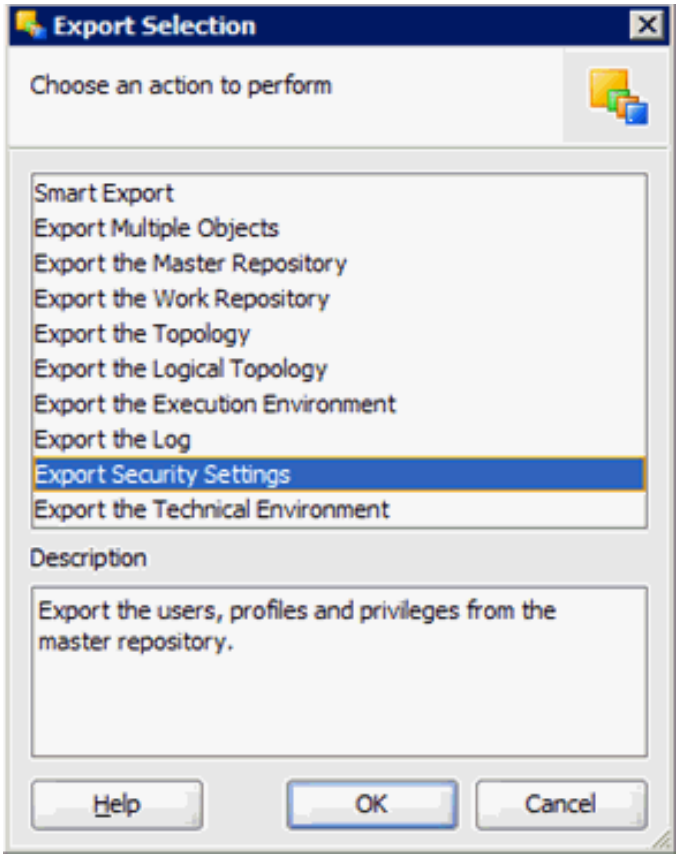


4. To export security, complete the following steps:

   a. Connect to the 11.1.1.9.2 ODI Repository schema using Oracle data base client tools such as SQL Plus, SQL Developer and execute the following script:

```
/* Script Begins */

UPDATE SNP_FLEX_FIELD SET I_FF=26040 WHERE
FF_CODE='OBI_DATASTORE_DYNAMIC_FILTER1' AND I_OBJECTS=2400 AND
FF_TECHNO='ORACLE_BI';

UPDATE SNP_FLEX_FIELD SET I_FF=31040 WHERE
FF_CODE='OBI_DATASTORE_DYNAMIC_FILTER2' AND I_OBJECTS=2400 AND
FF_TECHNO='ORACLE_BI';

COMMIT;

/* Script Ends */
```

   b. Navigate to Topology > Export and select the **Export Security Settings** action.



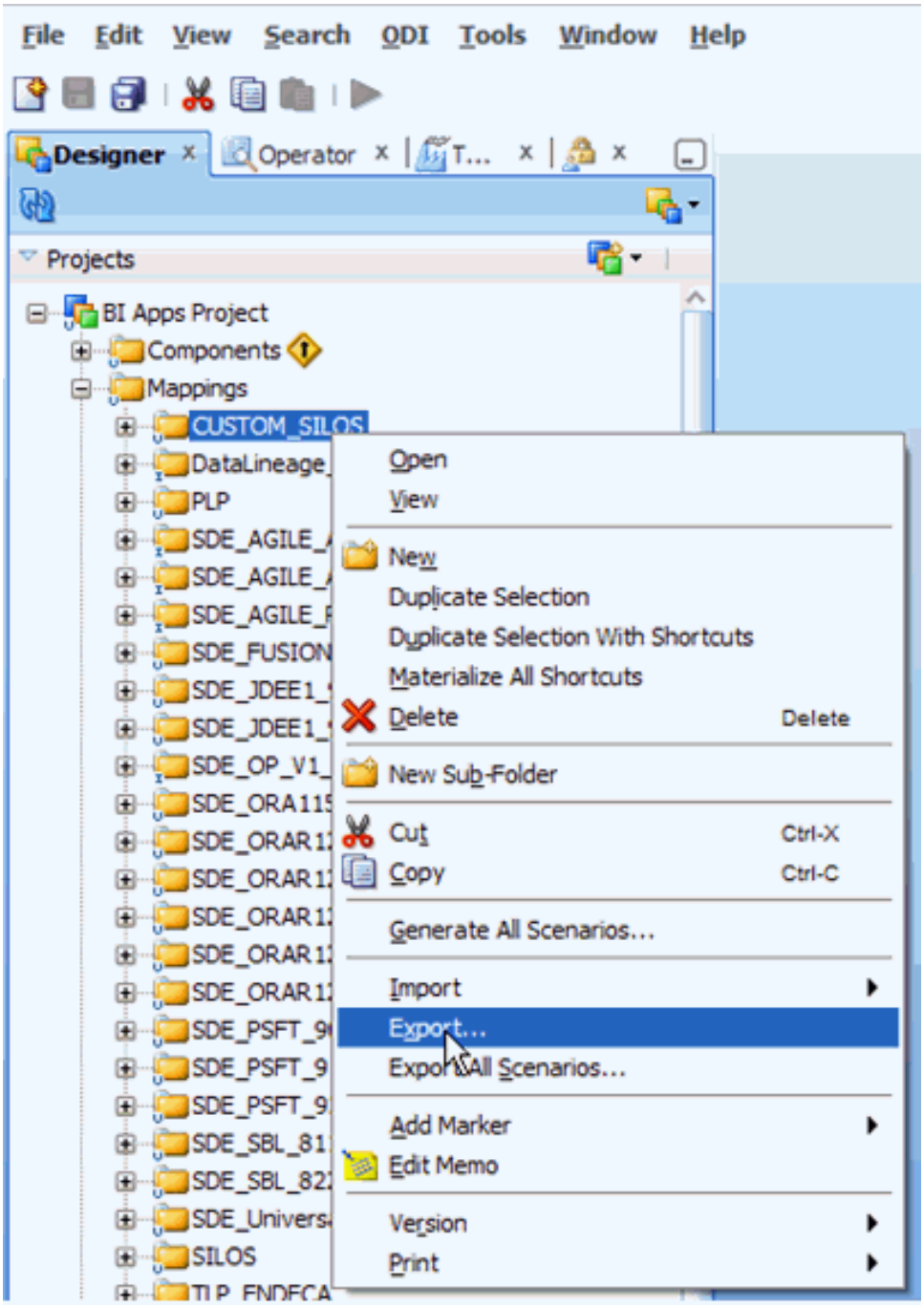
c. Choose to export to a local file (directory).

   This action exports your user configurations.

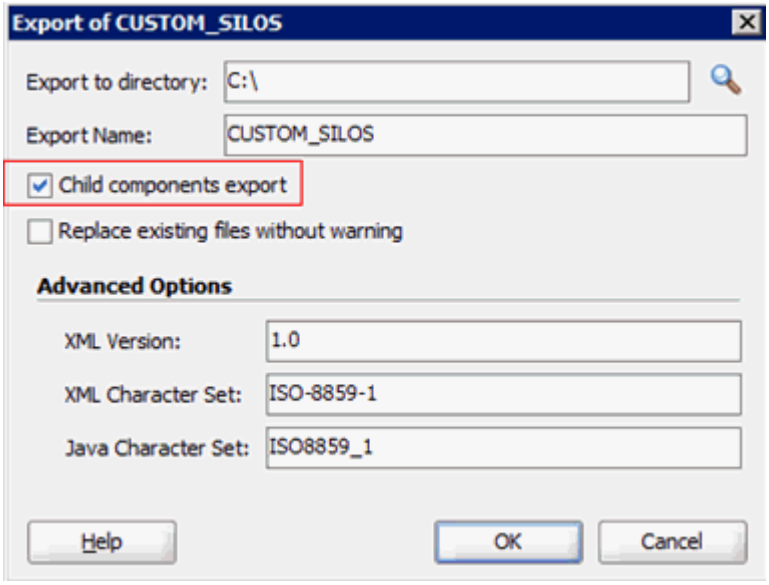
5. To export any customizations in your ODI repository, complete the following steps:

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

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

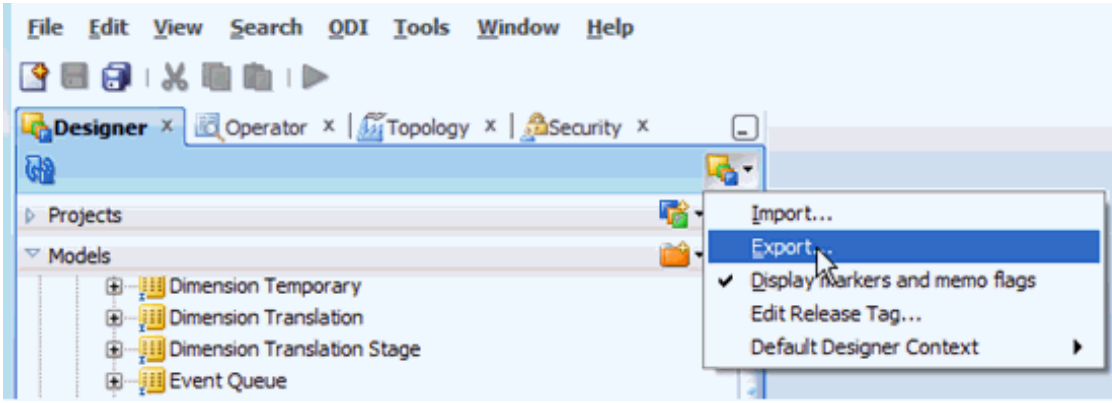


b. In the next window, ensure that the **Child Components Export** check box is selected.

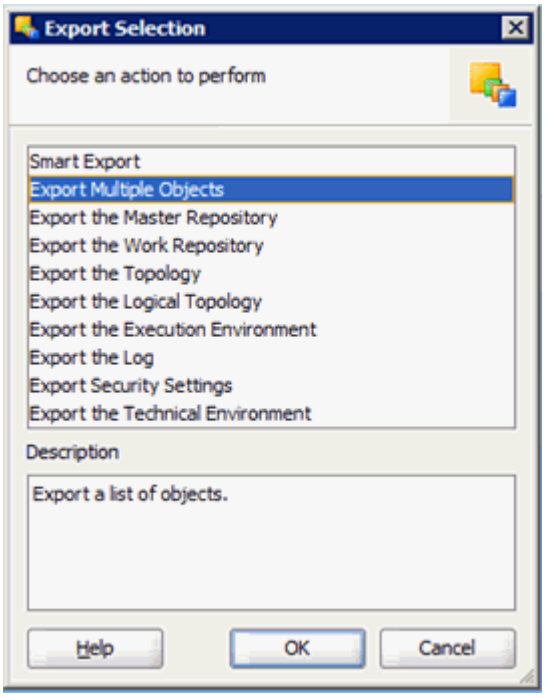


6. To export customized data stores, complete the following:

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

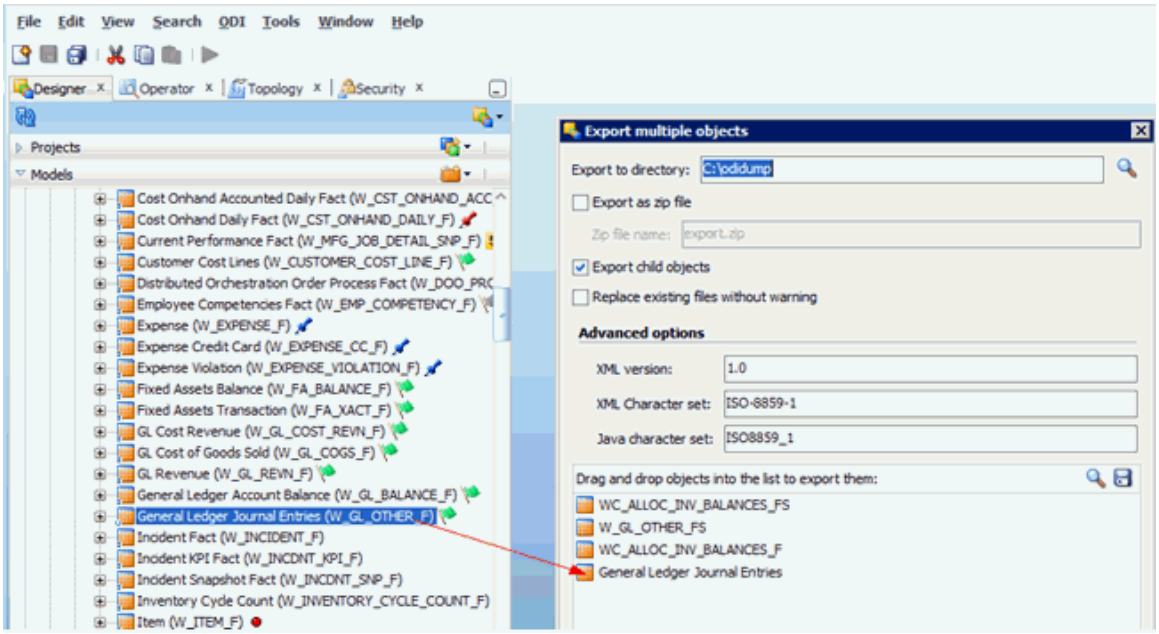


   b. Select the option to export multiple objects.



c. Drag and drop your purely custom and customized datastores. 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 out of the box tables that have been customized.



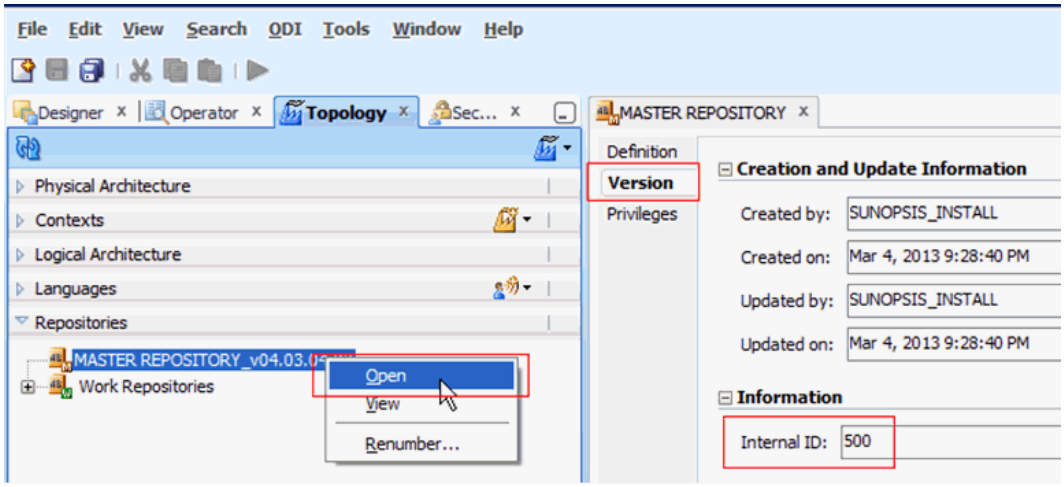
Noting the ID of the 11.1.1.9.2 ODI Repository

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.

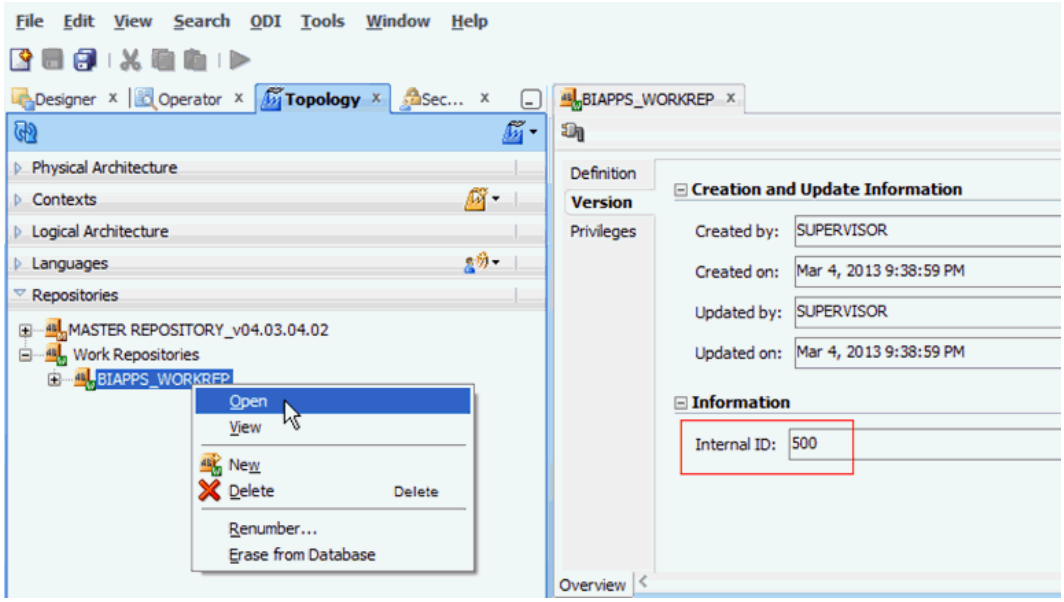
You need to note the ID of the 11.1.1.9.2 ODI Repository as after the repository is replaced with the 11.1.1.10.1 repository, the repository ID will be updated to a non-conflicting number. The default value 500 is assigned to all repositories that are shipped by Oracle. If you have migrated the repository across environments, the value could be different from this default value.

To note the ID of the ODI Repository for BI Applications 11.1.1.9.2:

1. Navigate to Topology > Repositories > Master Repository > right click and select Open > Version > Information > Internal ID.
2. Note the ID.



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



Dropping the 11.1.1.9.2 ODI Repository Schema

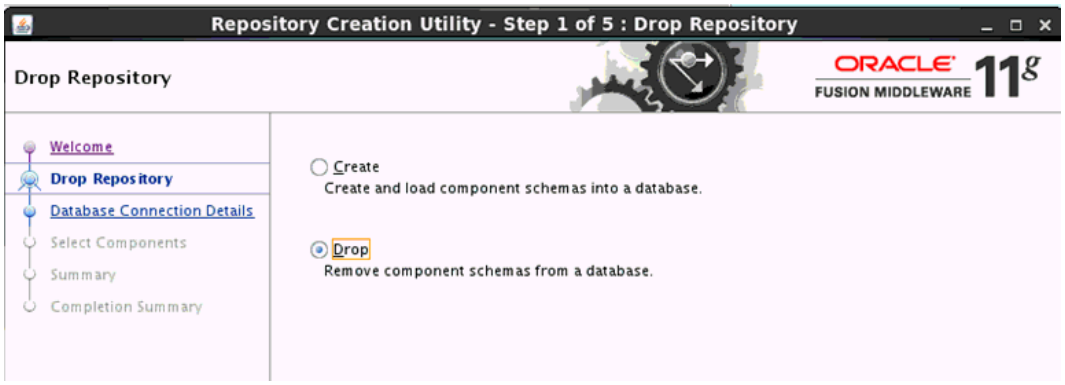
Use the BI Applications RCU to drop the existing 11.1.1.9.2 ODI Repository schema.

You can use either the BI Applications 11.1.1.9.2 RCU or the 11.1.1.10.1 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 11.1.1.9.2 exists.

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

To drop the 11.1.1.9.2 ODI repository schema:

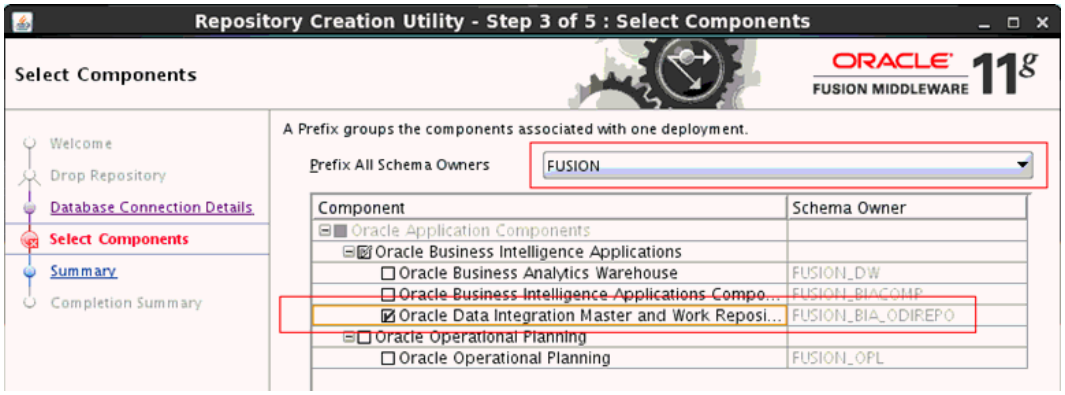
1. Launch the BI Applications RCU and select the **Drop** radio button.



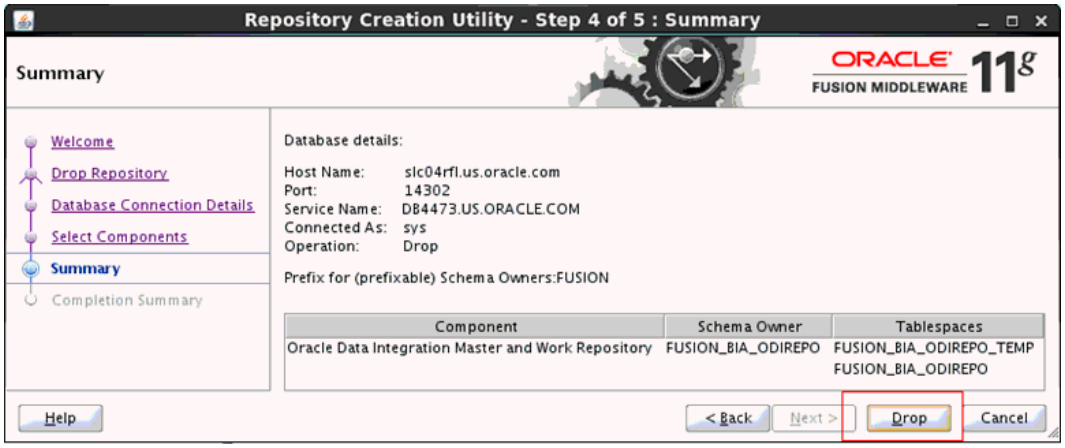
2. In the Database Connection Details screen, provide the connection details to the database which hosts the ODI Repository for BI Applications 11.1.1.9.2.

3. From the **Prefix All Schema Owners** drop down, select the prefix for your BI Applications 11.1.1.9.2 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 11.1.1.9.2.



Creating the ODI Repository for BI Applications 11.1.1.10.1

Use these instructions to create the ODI repository for BI Applications 11.1.1.10.1.

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 11.1.1.10.1 RCU to create the schema for the ODI repository for 11.1.1.10.1. This schema will use the same name as the 11.1.1.9.2 ODI repository schema that was just dropped.

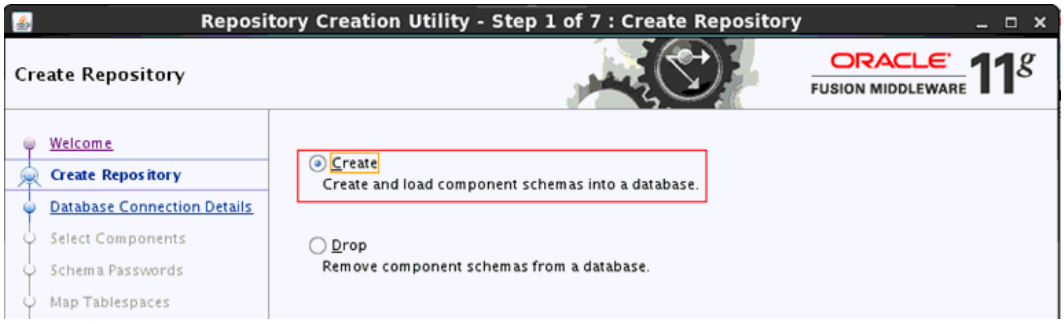
> **Note:** You must select the option to use an existing prefix and re-use the same prefix that was used by the schema that was previously dropped.

To create the ODI repository for BI Applications 11.1.1.10.1:

1. Unzip the BI Applications 11.1.1.10.1 RCU downloaded from the BI Applications 11.1.1.10.1 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.

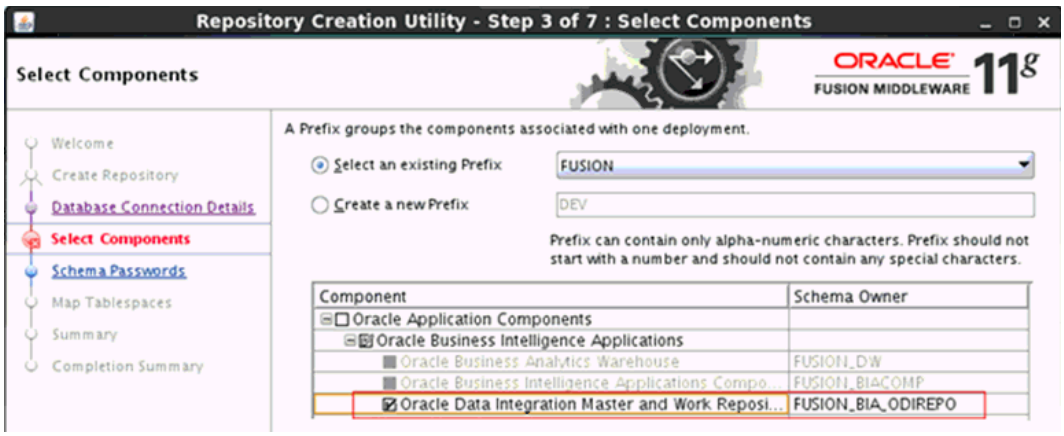
   RCU writes log files to this directory. The `.dmp` file is located in `BIA_RCU_HOME/rcu/integration/biapps/schema`.
3. Launch the BI Applications RCU for 11.1.1.10.1 from `BIAPPS_RCU_HOME\bin`:

   ```
   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 BI Applications 11.1.1.9.2 which you dropped in the previous procedure.

6. In the **Select Components** screen, from the **Select an existing Prefix** drop-down, select the same prefix as that of your ODI repository for 11.1.1.9.2. 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 11.1.1.9.2.



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. See step 1 above.

   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 11.1.1.10.1 which you created in the previous step.

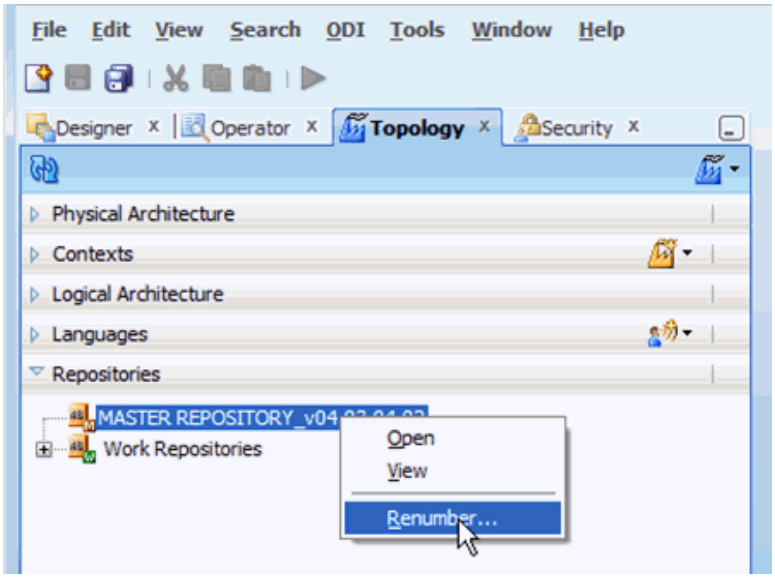
    The repository is set to Internal Authentication. The user and password you use to connect to the repository are:

    - User: SUPERVISOR
    - Password: welcome

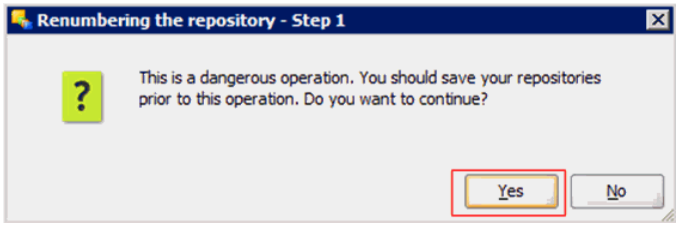
11. Change the ID of the 11.1.1.10.1 ODI repository.

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 11.1.1.9.2. In the section Noting the ID of the 11.1.1.9.2 ODI Repository, you made a note of the Repository ID for the Master and Work repositories (default value is 500). Use the following steps to update the value in the ODI repository for 11.1.1.10.1 to a different value:

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

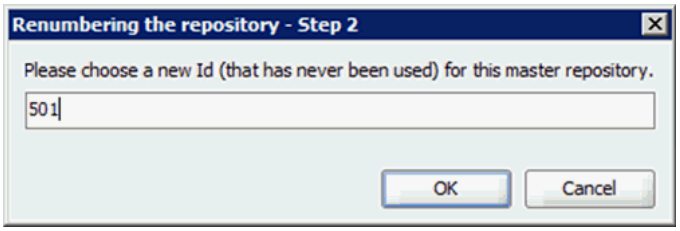


b. On the Renumbering the repository – Step 1 dialog, click **Yes**.

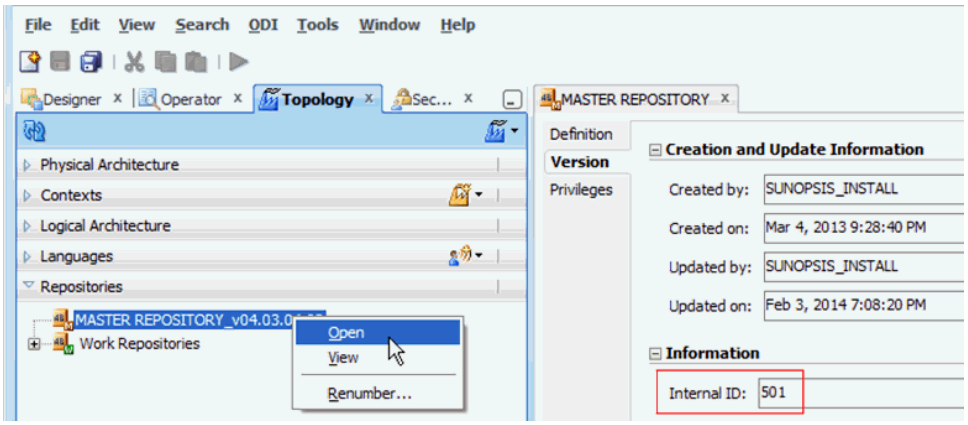


c. On the Renumbering the repository – Step 2 dialog, enter a new ID that has not been used for any of your existing ODI Repositories. Oracle suggests incrementing the value you noted in section Noting the ID of the 11.1.1.9.2 ODI Repository by 1. Click **OK**.

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.

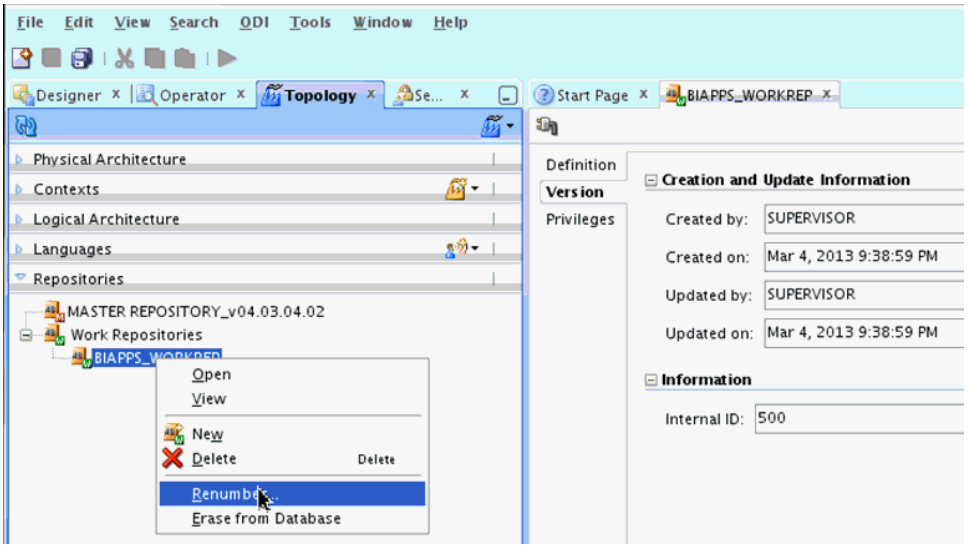


d. Verify the new number by selecting the **Master Repository**. Right click and select **Open** to view the Internal ID value that was set in the previous step.



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.



Importing Content into the 11.1.1.10.1 ODI Repository

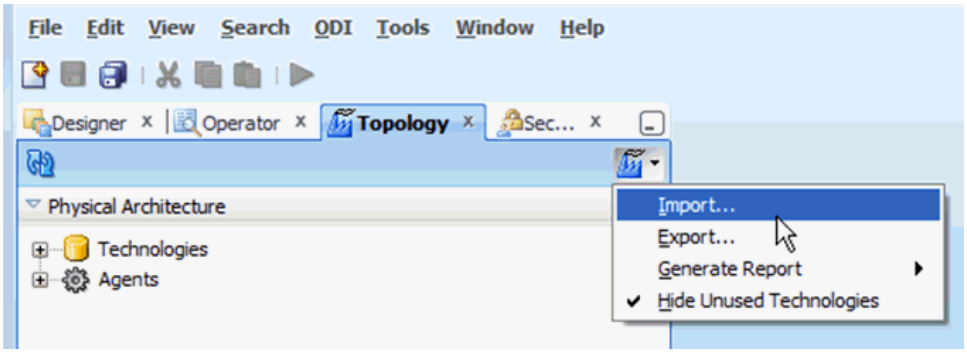
Use these instructions to import content into the 11.1.1.10.1 ODI repository.

To import content into the 11.1.1.10.1 ODI repository:

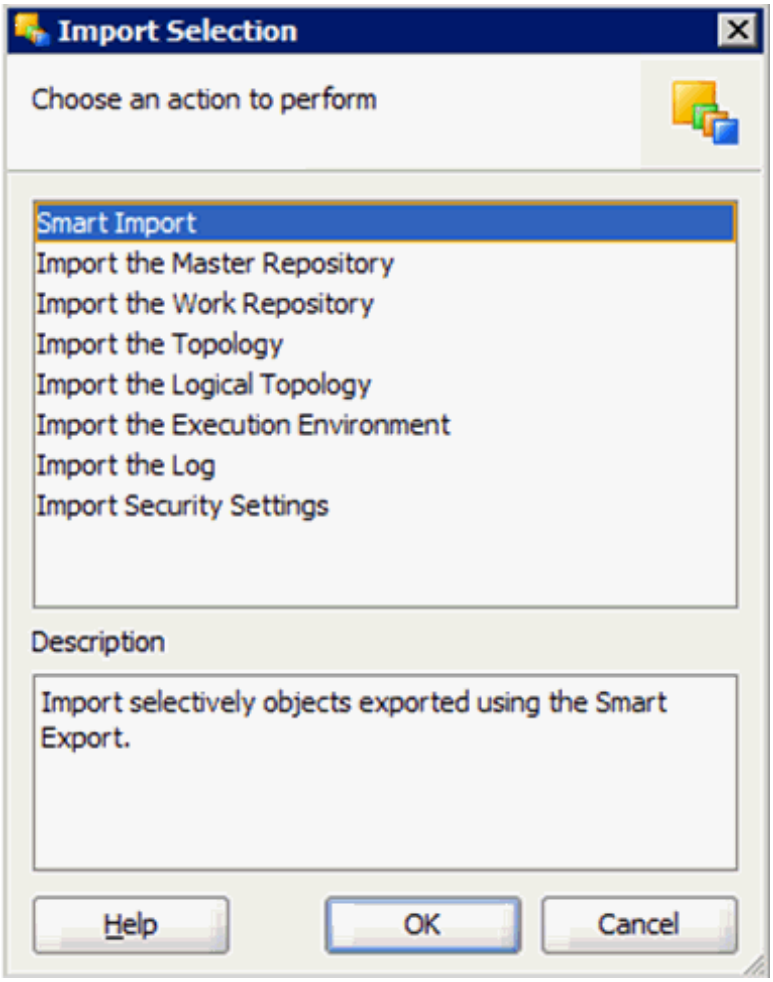
1. Import connection details as follows:

   a. Launch the ODI Studio client and connect to the ODI repository for BI Applications 11.1.1.10.1.

   b. Navigate to 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, you will import the file created by exporting the **Global** context while exporting connections.

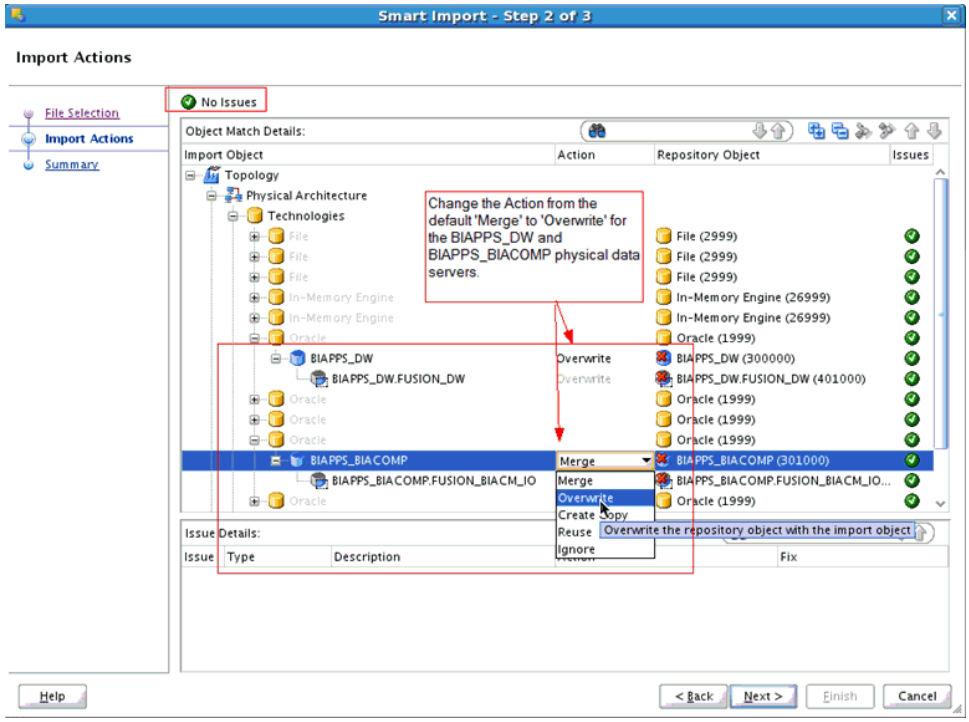


   c. In the Import Selection dialog, select **Smart Import**.



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

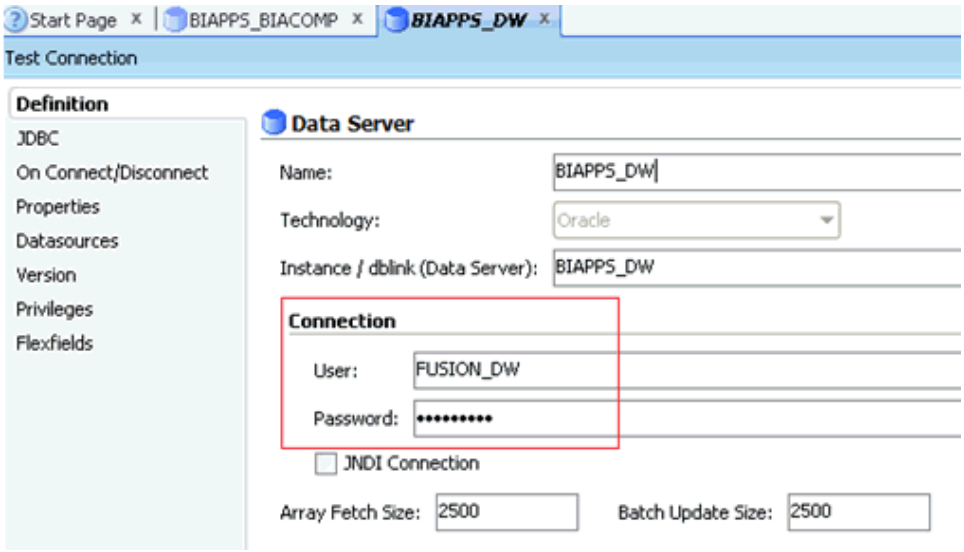
e. The default behavior of Smart Import is to merge details in the target repository. Ensure that no issues are reported – if issues are reported, then resolve them to ensure the existing details are replaced by the details being imported. Select the `BIAPPS_DW` and `BIAPPS_BIACOMP` Data Servers. select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



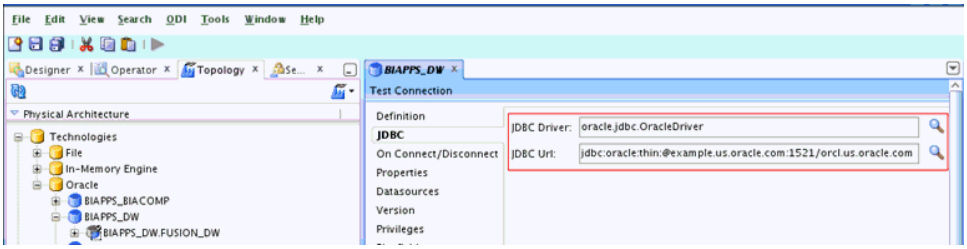
2. Verify that the physical servers have the correct details and the physical schemas have the correct `Datasource Num ID` value set in the `DATASOURCE_NUM_ID` flexfield as follows:

   a. In ODI Studio, navigate to Topology > 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.

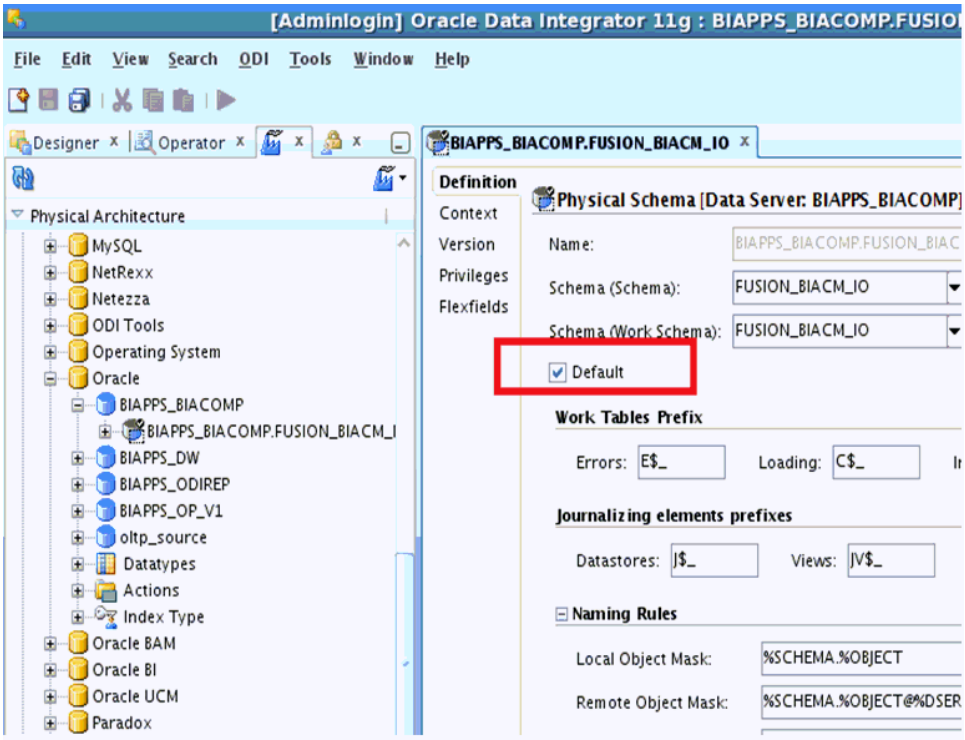


d. Repeat step 2 and its substeps for the `BIAPPS_BIACOMP` physical server.

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 ODI Studio, navigate to Topology > Physical Architecture.

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



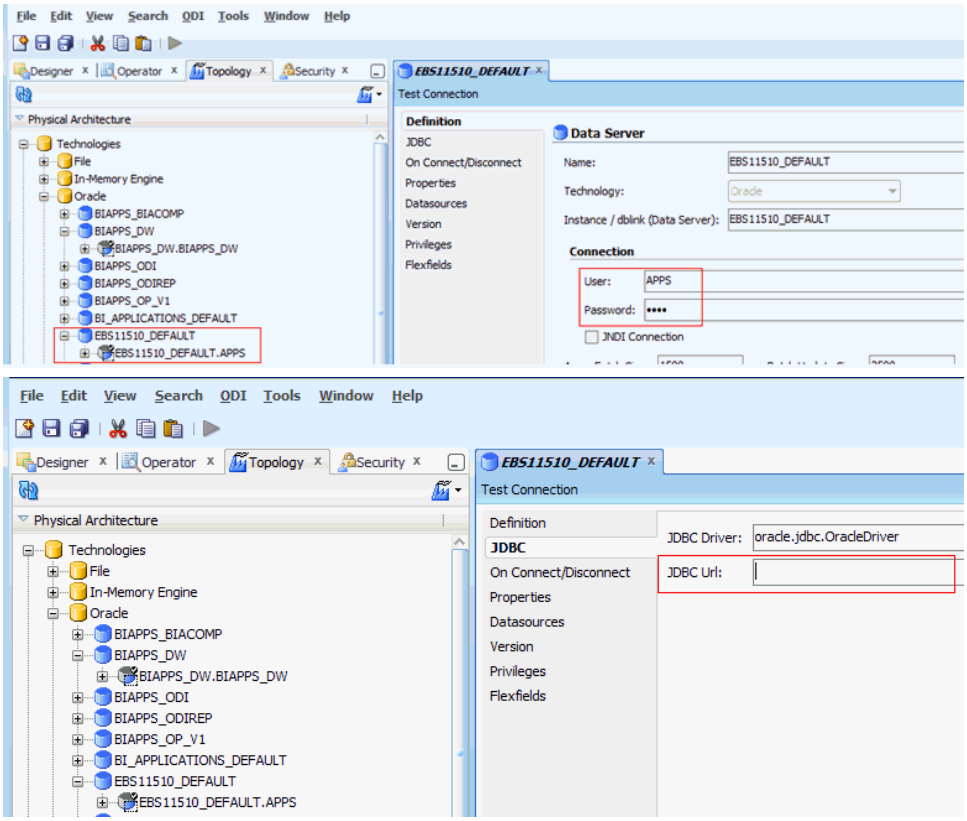
iii. Verify that the **Default** check box is selected on the Definition tab.

iv. Select the **Default** check box if it is not selected and then save the changes.

v. Repeat steps ii to iv for the physical schema under the `BIAPPS_DW` physical server.

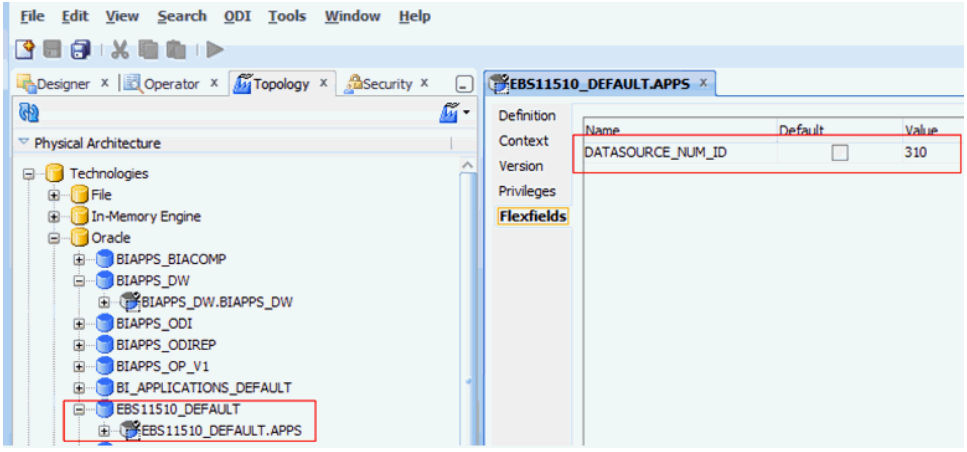
f. Verify the source connection details.

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 JDBC.

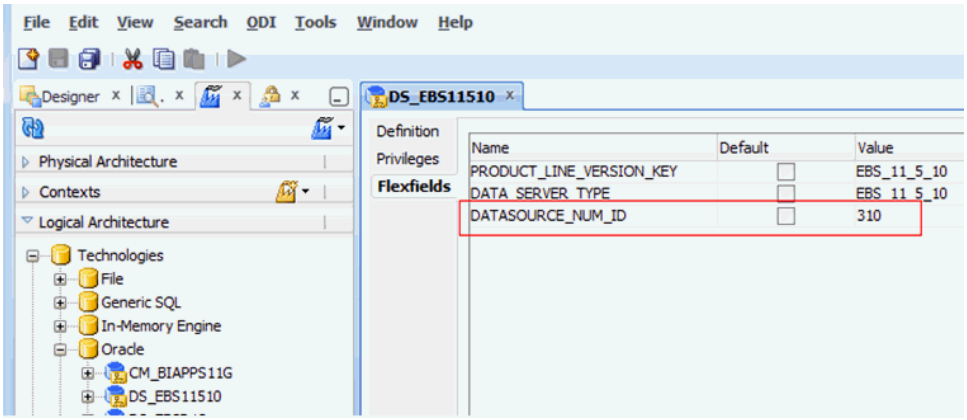


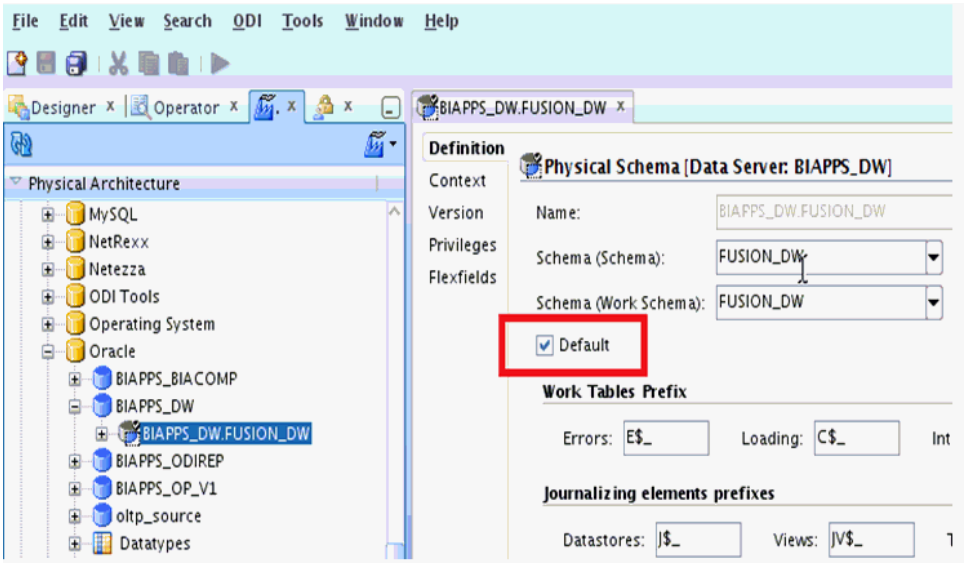
Note: The physical server name is the one that you specified in the Oracle BI Applications Configuration Manager user interface when you registered the source.

g. Also 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 BI Applications Configuration Manager for this source connection.



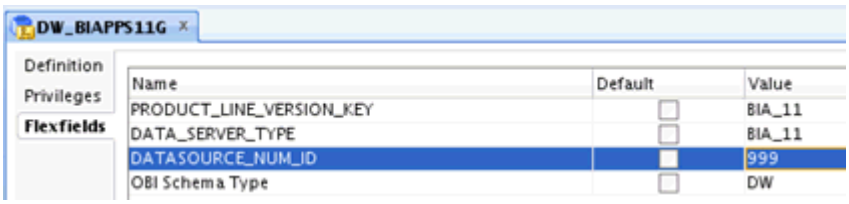
h. Open the corresponding logical schema and verify that the **DATASOURCE_NUM_ID** flexfield is also set with the same value.



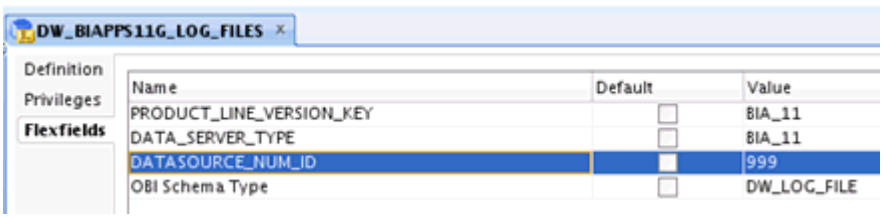


i. Verify that the following logical schemas have the correct Data source Num ID value set in the **DATASOURCE_NUM_ID** flex field. If you do not see 999 values for all these logical schemas, then set it with 999 values.

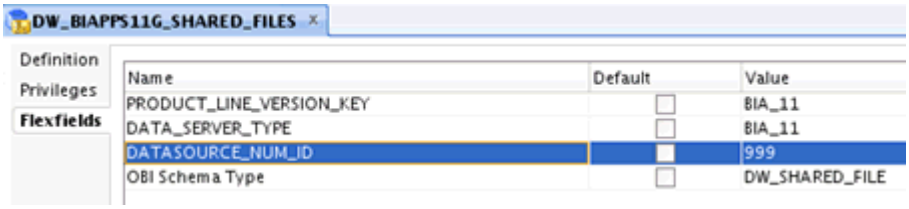
- `DW_BIAPPS11G`



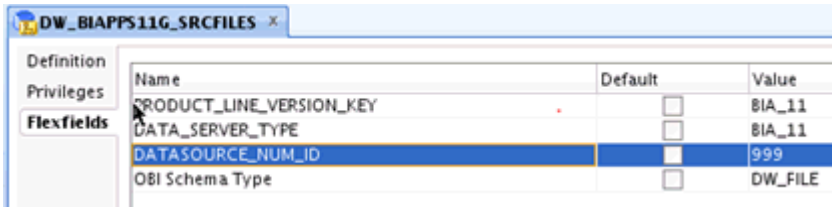
- `DW_BIAPPS11G_LOG_FILES`



- `DW_BIAPPS11G_SHARED_FILES`



- `DW_BIAPPS11G_SRCFILES`

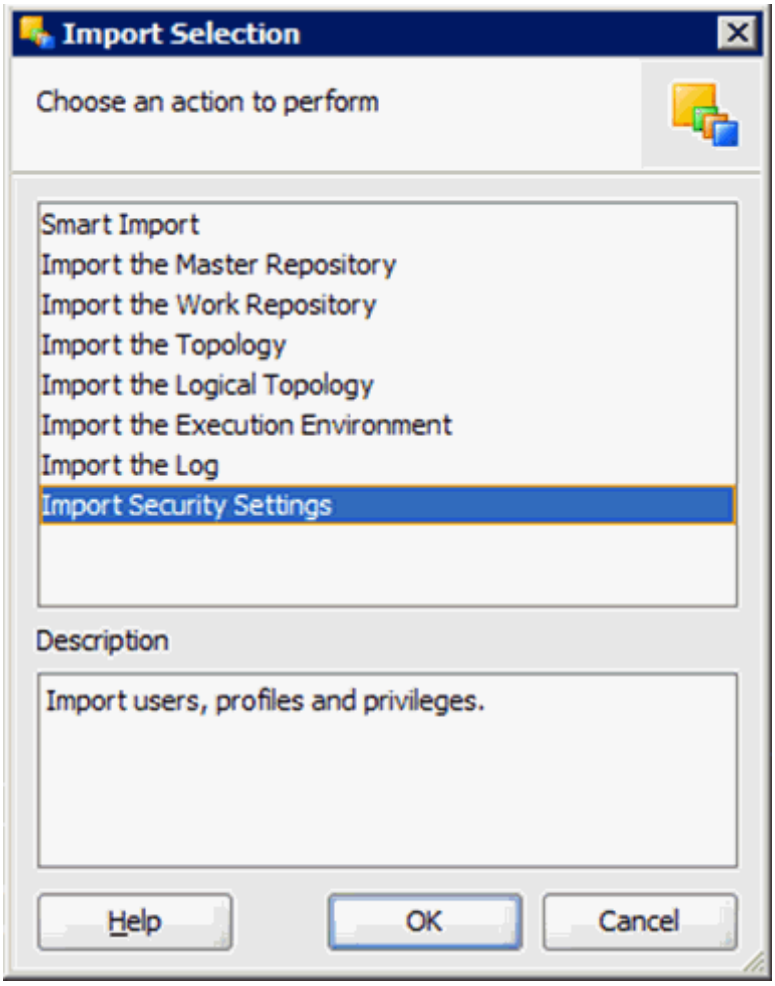


3. Import the Security settings that you exported while exporting security settings. Import the Security settings using the **Insert** and **Update** options as follows:

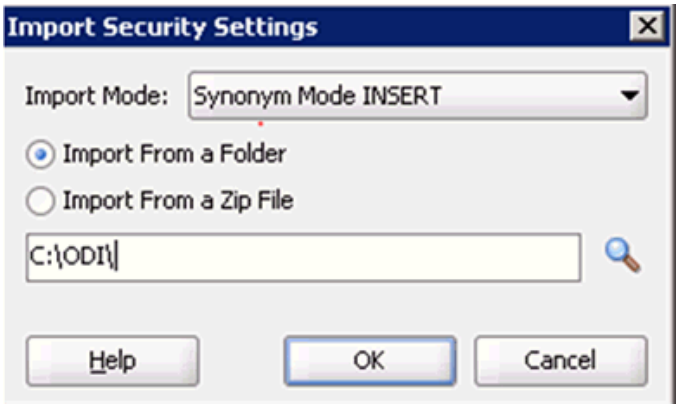
   a. Import new security objects as follows:

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

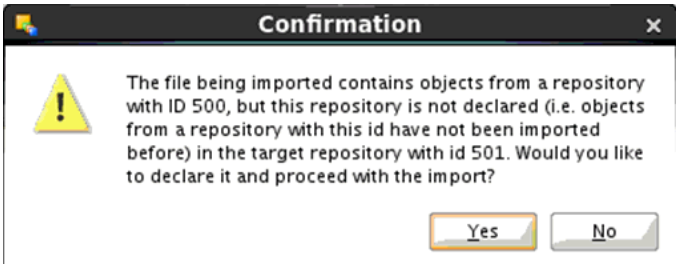
      ii. In the Import Selection dialog, select **Import Security Settings**.



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.



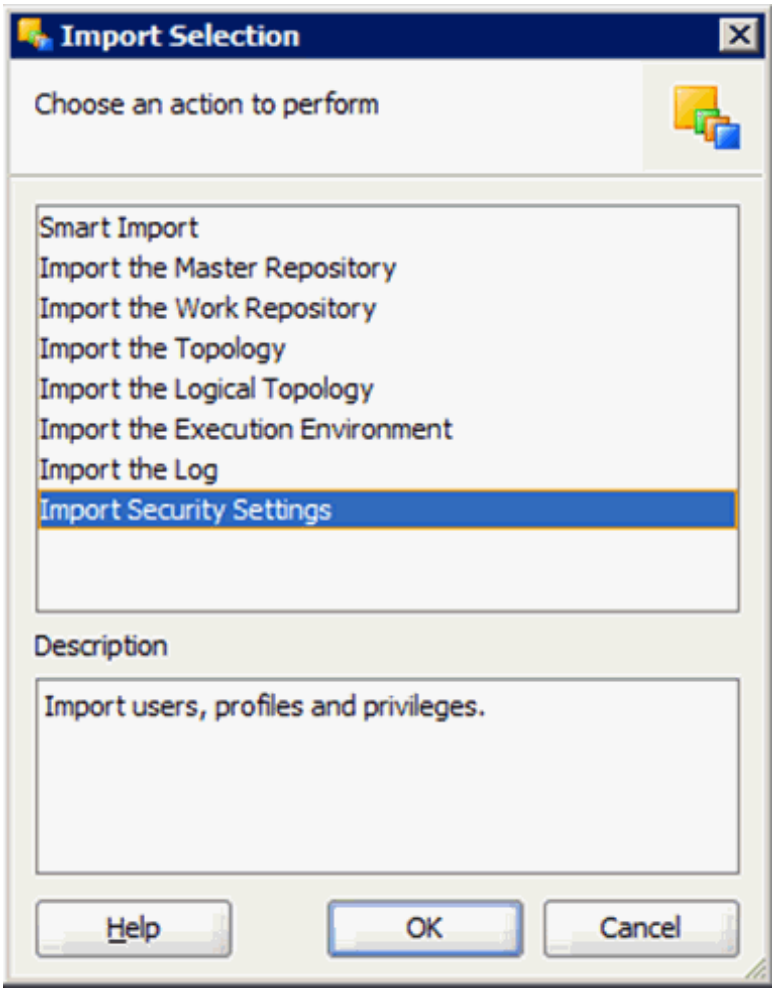
iv. Click **Yes** in the Confirmation dialog.



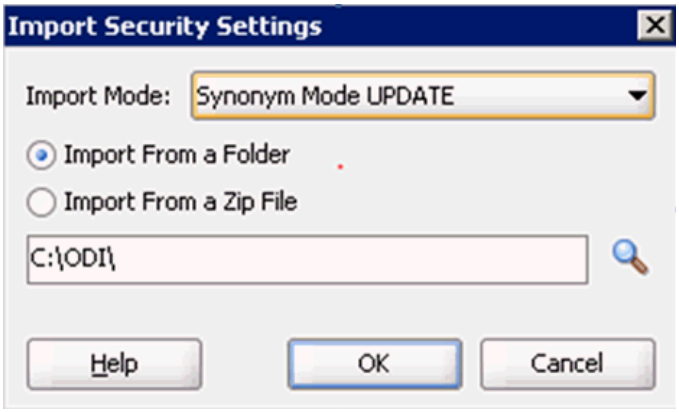
b. Update existing security objects as follows:

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

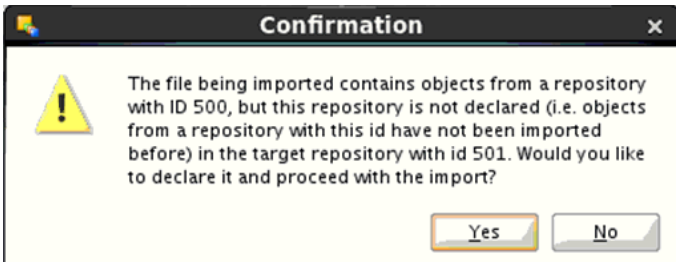
ii. In the Import Selection dialog, select **Import Security Settings**.



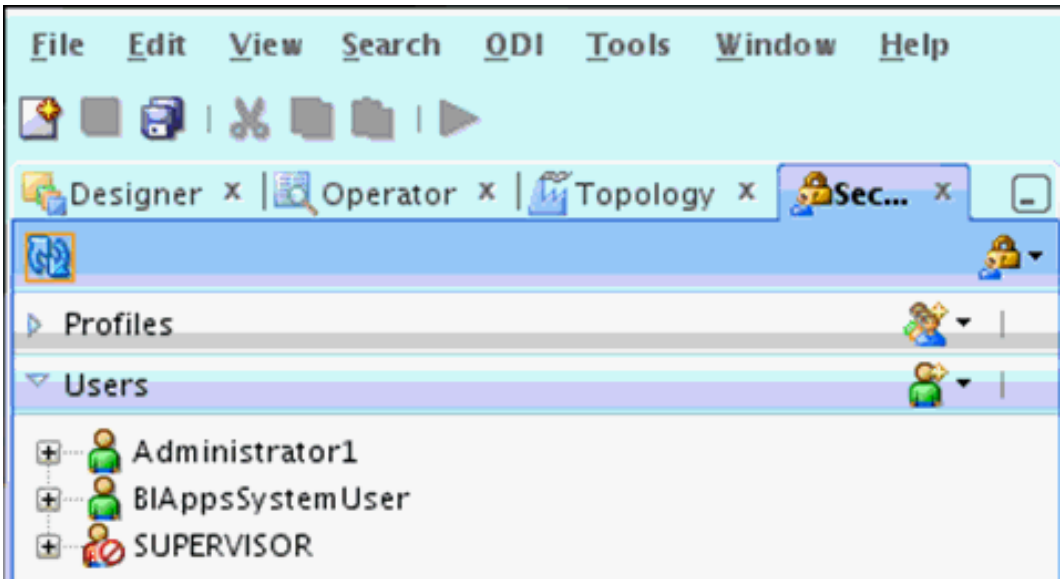
iii. In the Import Security Settings dialog, select **Synonym Mode UPDATE** for the update Mode. Select the **Import from a Folder** radio button. Enter the directory location to which you had exported the Security settings while exporting security settings.



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 Weblogic 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. Refer to Reconfiguring External Authentication to enable this user for external authentication.

Importing View Object to Physical and Logical Layers

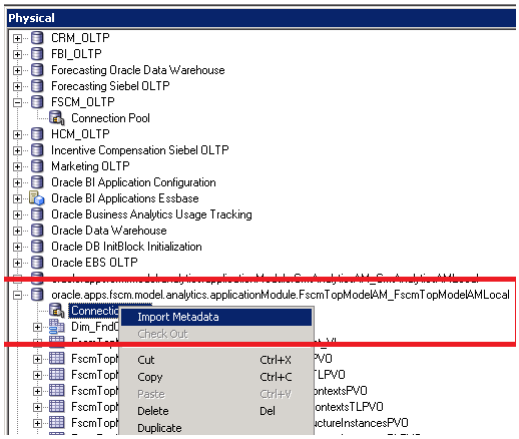
This issue applies to Fusion Direct (Non SAAS) run.

The full or incremental load after upgrade runs into an error as the `FscmTopModelAM.DooTopAM.ReturnReason` view object is missing in the 11.1.1.10.1 RPD.

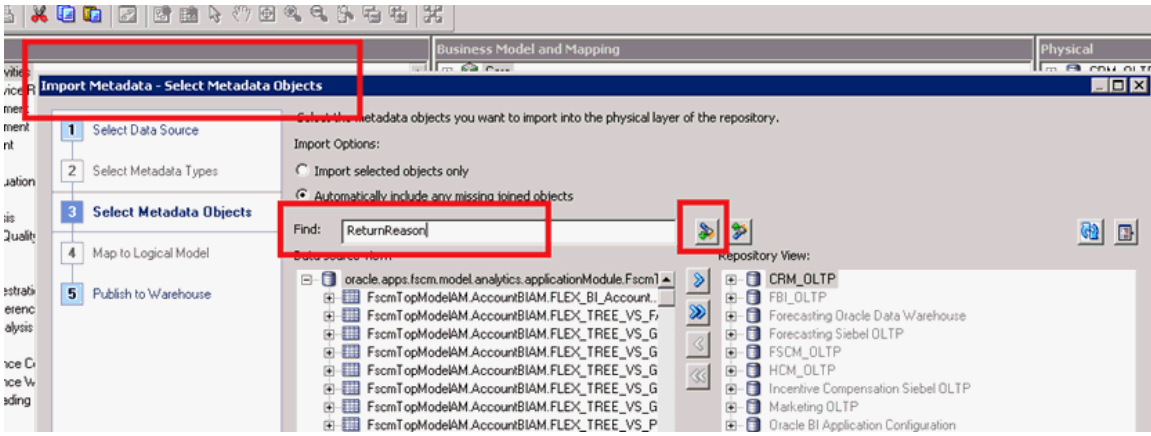
Workaround

Use these instructions to import the `FscmTopModelAM.DooTopAM.ReturnReason` view object in to the physical and logical layers.

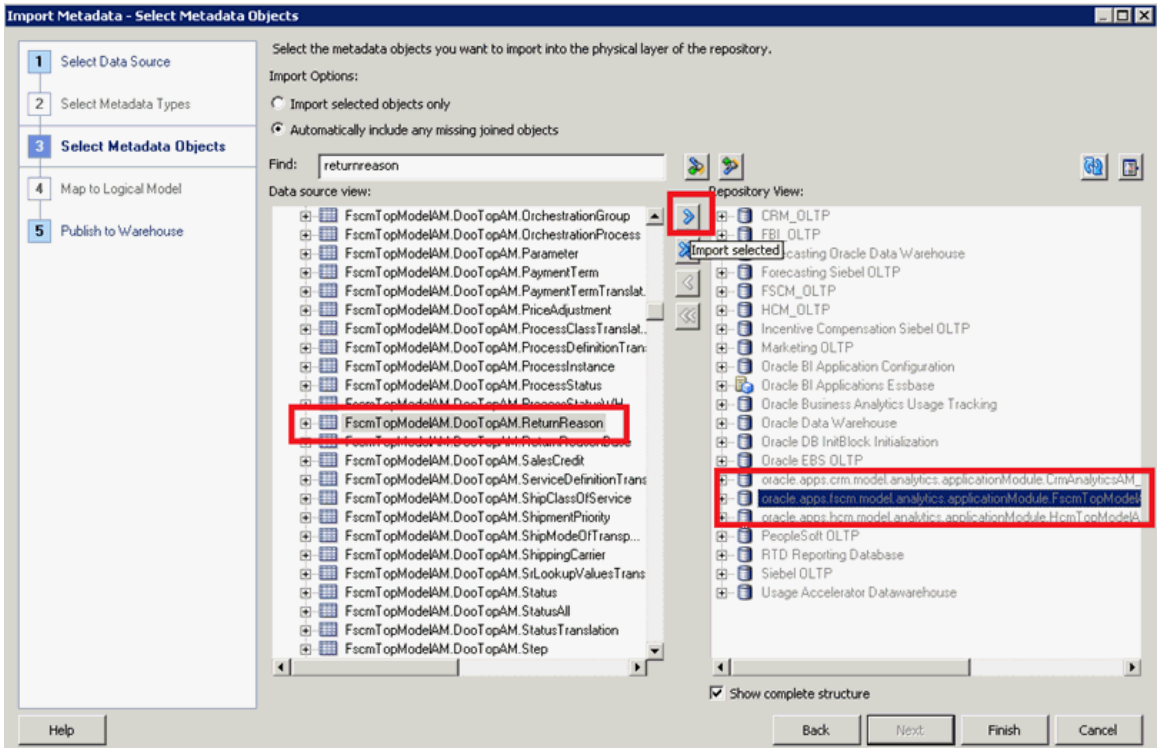
1. Stop BI Services and open RPD.
2. In the **Physical** Layer of the RPD, right click **Connection Pool** under **oracle.apps.fscm.model.analytics.applicationModule.FscmTopModelAM_FscmTopModelAMLocal**.



3. Click **Import Metadata**.
4. In the Import Metadata — Select Metadata Objects dialog, enter `ReturnReason` in the **Find** field and click **Search** icon.



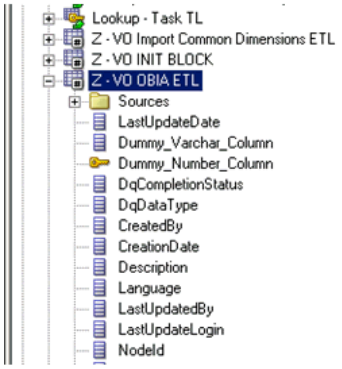
5. Select **FscmTopModelAM.DooTopAM.ReturnReason** in the Data Source View pane, select **oracle.apps.fscm.model.analytics.applicationModule.FscmTopModelAM_FscmTopModelAMLocal** in the Repository View pane, and click the **Import Selected** icon.

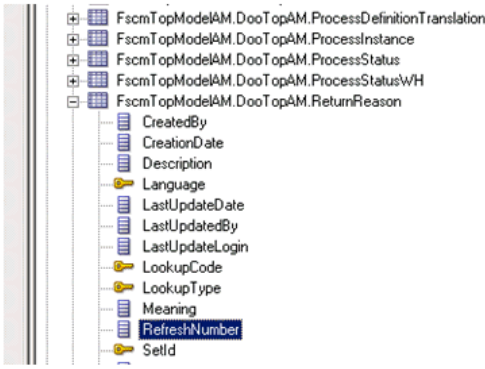


The Importing popup displays the import.

6. Click **Finish** when import is complete.

7. The previous steps were for the Physical Layer. Now add **RefreshNumber** attribute from the VO to the **Z - VO OBIA ETL** Logical Table in BMM Layer. Select the attribute, drag and drop it in to the **Z - VO OBIA ETL** logical table.





8. Save and close the RPD.
9. Restart the BI Services.

Creating Shared and Log Folders

Use these instructions to create Shared and Log folders in `$INSTANCE_HOME`.

You need to create the following folders as part of the upgrade process from 11.1.1.9.2 to 11.1.1.10.1:

- `$INSTANCE_HOME/biapps/shared/`
- `$INSTANCE_HOME/biapps/logs/`

Additionally, this command provisions these folders as `DW_BIAPPS_LOG_FILE` and `DW_BIAPPS_SHARED_FILE` in ODI.

Run the following command after refreshing the ODI repository and after importing the xml files. are done. Ensure that you run this command prior to the execution of the upgrade load plan.

Script Usage:

```
./wlst.sh
ORACLE_HOME/dwtools/scripts/REL92DW_REL101DW_Upgrade_SharedAndLogsFoldersProv.
py
--DOMAIN_HOME_PATH <domain_home>
--INSTANCE_HOME_PATH <instance_home>
--ODI_HOME_PATH <odi_home>
--ODI_DB_CONN_STRING jdbc:oracle:thin:@<host>:<port>/<service_name>
--ODI_DB_SCHEMA_USER <odi_repo_db_user>
--ODI_CONSOLE_USER_NAME <odi_console_user>
```

Example:

```
./wlst.sh
/scratch/kkandari/work/mw9953/Oracle_BI1/dwtools/scripts/REL92DW_REL101DW_Upgr
ade_SharedAndLogsFoldersProv.py --DOMAIN_HOME_PATH
/scratch/kkandari/work/mw9953/user_projects/domains/bifoundation_domain
--INSTANCE_HOME_PATH /scratch/kkandari/work/mw9953/instances/instance1
--ODI_HOME_PATH /scratch/kkandari/work/mw9953/odi8776 --ODI_DB_CONN_STRING
jdbc:oracle:thin:@slc01mke.us.oracle.com:16736/db9199.us.oracle.com
--ODI_DB_SCHEMA_USER FA_BIA_ODIREPO --ODI_CONSOLE_USER_NAME Administrator1
```

Upgrading Fusion V1 Adaptor ODI Artifacts to Use Fusion 9 Adaptor

Use these instructions to upgrade the source.

Ensure that you have performed the following:

- Perform the upgrade steps. As part of the Upgrade process, you would have exported your connections, dropped and replaced the ODI repository, and then imported the connections back again.
- Do not run any load plans during this process and deactivate the load plan schedules.

Oracle BI Applications release 11.1.1.10.1 supports multiple Fusion releases, thereby allowing the source to be either Fusion 9 or Fusion 10. When you upgrade from BI Applications Release 11.1.1.9.2 to 11.1.1.10.1, you need to set the DSN for the logical schemas `DS_<modelCode>_SDS` and `DS_<modelCode>_SDS_DW` (for example, `DS_EBSR122_SDS`, `DS_EBSR122_SDS_DW`) if SDS is deployed for a previously registered source.

To upgrade Fusion V1 adaptor ODI artifacts to use Fusion 9 adaptor:

Note: If you do not import the connections from BI Applications Release 11.1.1.9.2 repository, then the rewiring process will not work. In this case, you will need to run the Fusion Upgrade load plan and not the Source Upgrade load plan.

Note: Execute the standalone scripts from BI Oracle Home.

---

1. Rewire the sources to ensure that all ODI connections that were earlier pointing to Fusion V1 logical schemas now move to corresponding Fusion 9 logical schemas. The DSN remains the same.

   Run `UpgradePLV` script to rewire PLV in Oracle BI Applications Configuration Manager (OBIACM).

   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 BIACM server is running (Optional,
   default: localhost)
    <port number>: Port number where BIACM 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
```

Note: OBIACM binaries and schema should be upgraded and OBIACM web application is running. User passing in the command must have `BIA_BIACM_SERVICE_PRIV` privilege in order to access the BIACM web service.

2. Regenerate the load plans to ensure that the generated load plan has scenarios or steps corresponding to Fusion 9 and not Fusion V1.

   Complete these steps to run source upgrade load plans after the Source Upgrade rewiring:

   Note: Ensure that all DB directories are created or mapped.

   a. Set `JAVA_HOME`, if not set already.

   b. Verify whether all these jars are available:

      - The jars `otbiePatchTool.jar` and `patchToolHelper.jar`, should be available under directory `$ORACLE_BI/biacm/patch/lib`.
      - The jars `bia-db.jar` and `bia-odi.jar`, should be available under directory `$ORACLE_BI/biapps/lib`..
      - The jar `lpgengine.jar`, should be available under directory `$ORACLE_BI/biapps/lpg/jlib`. .

      Run the `odiPatch.sh` from the directory : `$ORACLE_BI/biapps/odi/patch`.

      Example:

      Note: Replace all key's value with your data/credentials.

```
sh odiPatch.sh 1 /scratch/nchowdhu/work/mw3459/odi7272 ODI_HOME /scratch/
nchowdhu/work/mw3459/odi7272 ODI_CONTEXT GLOBAL BIACOMP_DB_DRIVER
oracle.jdbc.OracleDriver ODI_JPS_CONFIG_PATH /scratch/nchowdhu/work/mw3459/
odi7272/oracledi/client/odi/bin/jps-config-    jse.xml ODI_CWALLET_SSO_PATH /
scratch/nchowdhu/work/mw3459/odi7272/oracledi/client/odi/bin/cwallet.sso
ODI_DB_SYS_USER system ODI_SCHEMA_USER FA_BIA_ODIREPO ODI_WORKREP
BIAPPS_WORKREP BIACOMP_SCHEMA_USER FA_BIACOMP ODI_BIAPPS_SYS_USER
BIAppsSystemUser BIACOMP_JDBC_URL slc09ewk.us.oracle.com:15581/
db5902.us.oracle.com ODI_BIAPPS_SYS_PASSWORD Ob5gfzmkaov1lice
ODI_SCHEMA_TS_NAME FA_BIA_ODIREPO BIACOMP_SCHEMA_PASSWORD welcome1
ODI_JDBC_URL slc09ewk.us.oracle.com:15581/db5902.us.oracle.com
ODI_DB_SYS_PASSWORD welcome1 BI_ORACLE_HOME /scratch/nchowdhu/work/mw3459/
Oracle_BI1 ODI_SCHEMA_PASSWORD welcome1 ODI_DB_DRIVER
oracle.jdbc.OracleDriver PATCH_LOCATION /scratch/patchorchestrator/patches/
ptf_obiacm_cm_cm_bin_3005180122.zip PATCH_APPLICATION_ORACLE_HOME /scratch/
nchowdhu/work/mw3459/Oracle_BI1 OPATCH_INV_PTR_LOC /scratch/nchowdhu/work/
mw3459/Oracle_BI1/oraInst.loc PATCH_ID 3005180122 PATCH_PHASE backup
LOG_LOCATION /scratch/logs//ODI SRC_UPGD_MODE Y ODI_LP_NAME_SRC_UPGD Test-
```

```
Src-Upgd_2_20150624_000306

Where:
1 -> ODI home location

*PATCH_PHASE -> If backup then use : backup, If postphase then use :
executePostPhase
 ODI_HOME -> ODI home location
 BIACOMP_DB_DRIVER -> CM db driver name
 ODI_JPS_CONFIG_PATH -> ODI jps file location
 ODI_CWALLET_SSO_PATH -> ODI cwallet file location
 ODI_DB_SYS_USER -> DBA user name
 ODI_SCHEMA_USER -> ODI schema name
 ODI_WORKREP -> Odi workrepo name
 BIACOMP_SCHEMA_USER -> CM schema name
 ODI_BIAPPS_SYS_USER -> ODI studio user name
 BIACOMP_JDBC_URL -> CM db URL
 ODI_BIAPPS_SYS_PASSWORD -> ODI studio password
 ODI_SCHEMA_TS_NAME -> Odi schema tablespace name
 BIACOMP_SCHEMA_PASSWORD -> CM schema's password
 ODI_JDBC_URL -> ODI db URL
 ODI_DB_SYS_PASSWORD -> DBA password
 BI_ORACLE_HOME -> BI oracle home location
 ODI_SCHEMA_PASSWORD -> Odi schema's password
 ODI_DB_DRIVER -> Odi db driver name
 PATCH_LOCATION -> Any dummy location
 PATCH_APPLICATION_ORACLE_HOME -> Any dummy location
 OPATCH_INV_PTR_LOC -> Any dummy location
 PATCH_ID -> Any dummy number
 LOG_LOCATION -> any existing location which stores logs
 SRC_UPGD_MODE -> Y
 ODI_LP_NAME_SRC_UPGD -> existing Source upgrade LP name
```

You can also manually do this from BI Applications Configuration Manager (BIACM) user interface. Use BIACM user interface to generate a new load plan and also setup schedules for the new load plan.

3. Run the Source Upgrade load plan (Upgrade BIApps 111192 to 1111101 FUSION 9) that gets the tables and data in sync with metadata in BI Applications Release 11.1.1.10.1. This is available under the **Pre-Defined Load Plans** in the upgraded repository.

   You will need to run the Upgrade Internal Tables Load plan first before running the Fusion load plan as is the case normally. If your Fusion source in on the Cloud, you will need to place full request files on the UCM/Storage Service for any VOs that are being reloaded as part of the Ugprade load plan. For that you can do either of the following:

   a. Look at the Request for Full Load Files Under Upgrade SDS >File to SDS Load Phase > Pre Load section of the load plan. Using the UI present on Fusion side, request for full load files for those VOs that are listed in the Cloud Table list parameter for that step.

   b. Alternatively run the step **Request for Full Load Files** in the load plan to generate the `BATCHREQUEST` File that needs to be uploaded to UCM/Storage Service. Then run a single extract on the FA Extractor side. It will download the `BATCHREQUEST` file and provide a full file for the VOs present in the `BATCHREQUEST` file.

After you have performed these steps, you can verify that the process ran fine:

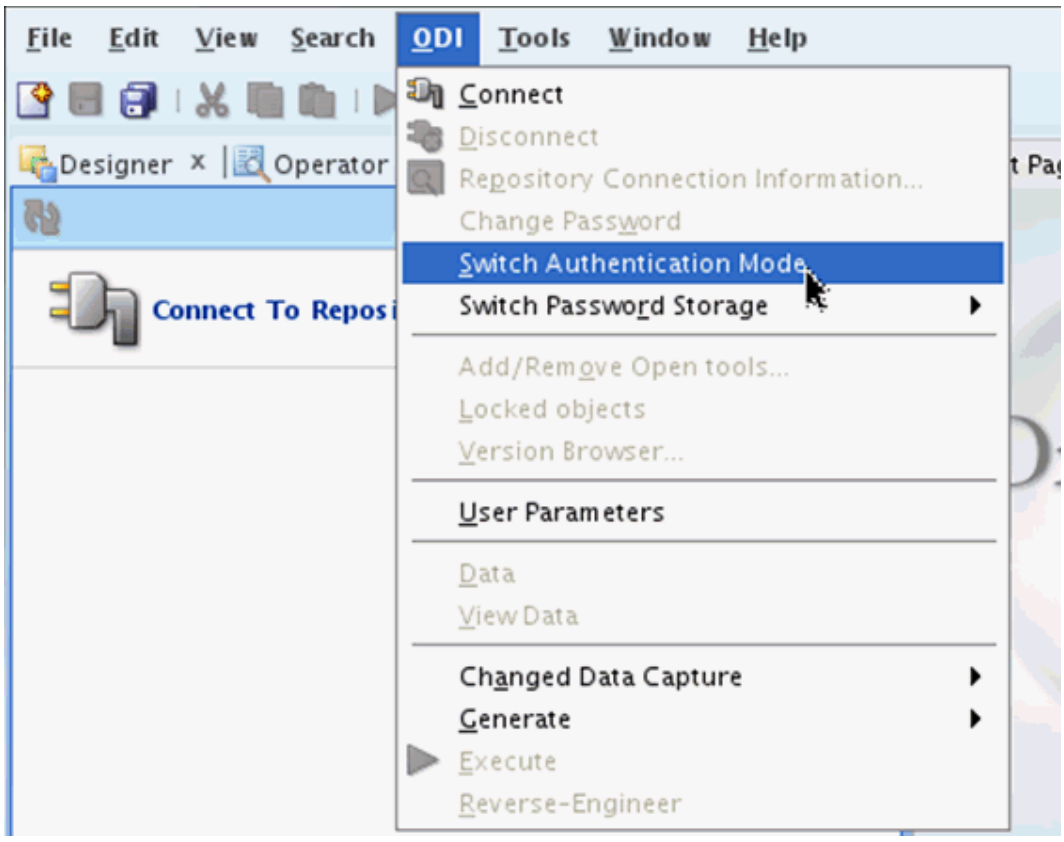
1. When you see the context, you should see all the physical Fusion Connections mapped to Fusion 9 logical schemas. Nothing should still point to Fusion V1 schemas.
2. DSN against Fusion 9 should be the same DSN as earlier.
3. In Generated Load plan, you should see all scenarios corresponding to Fusion 9 and not Fusion V1.
4. All existing load plan schedules should be moved to the newly generated load plans.
5. In `W_ETL_LOAD_DATES` table, you should see entries for Fusion 9 only and not V1 anymore.

Reconfiguring External Authentication

To log into the ODI repository as the administrative user, you need to configure the ODI repository for BI Applications 11.1.1.10.1 for external authentication.

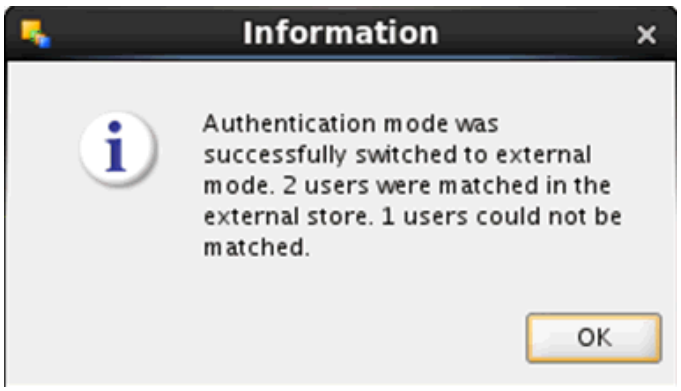
To reconfigure for external authentication:

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



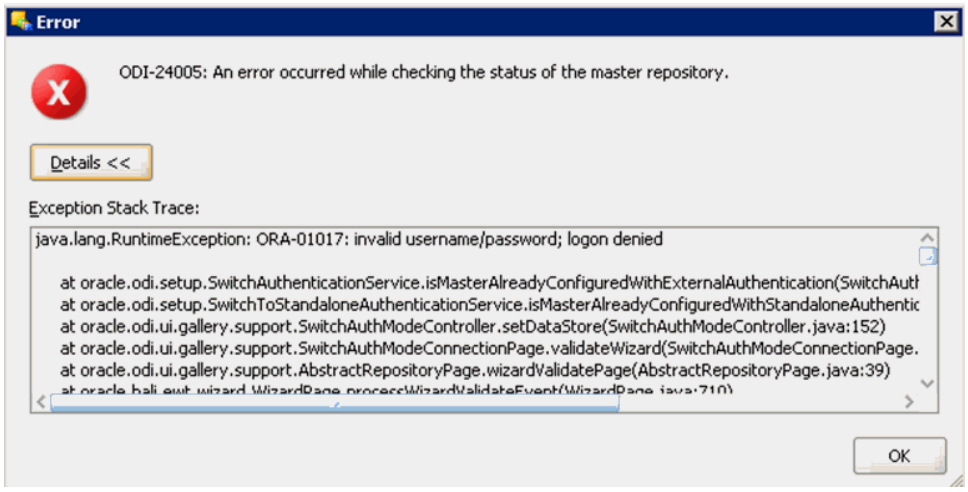
3. Enter the database connection details on the Login screen. Click **Next**.
4. On the Credentials screen click **Finish**.

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 Installation Guide*.

5. If required, create a connection in ODI Studio to the ODI repository for 11.1.1.9.2. 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 11.1.1.9.2 do not exist in the ODI Repository for 11.1.1.10.1.

The steps to transfer content from the 11.1.1.9.2 repository to the 11.1.1.10.1 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 BI Applications 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.

   Refer to the Configuration Manager online help for the Manage Load Plans screen and the *Oracle Business Intelligence Applications ETL Guide* for more details on how to regenerate the load plan with the existing load plan definition.

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.

If you have separate ODI repositories for Development (DEV), Testing (TEST) and Production (PROD), there is a difference in the steps for getting the customizations into the post-upgrade DEV repository and into the post-upgrade 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. Refer to the T2P ODI migration document (*BI Applications 11.1.1.7.1–Migrating Configurations and Customizations from Development to a Test OR Production Environment*, My Oracle Support Document ID 1587872.1) for the steps to migrate the customizations from the DEV repository to TEST and PROD repositories.

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, we 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, we 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, we use Smart Import to bring all objects as these objects should always take precedence and overwrite what is in the target.

Importing Datastores

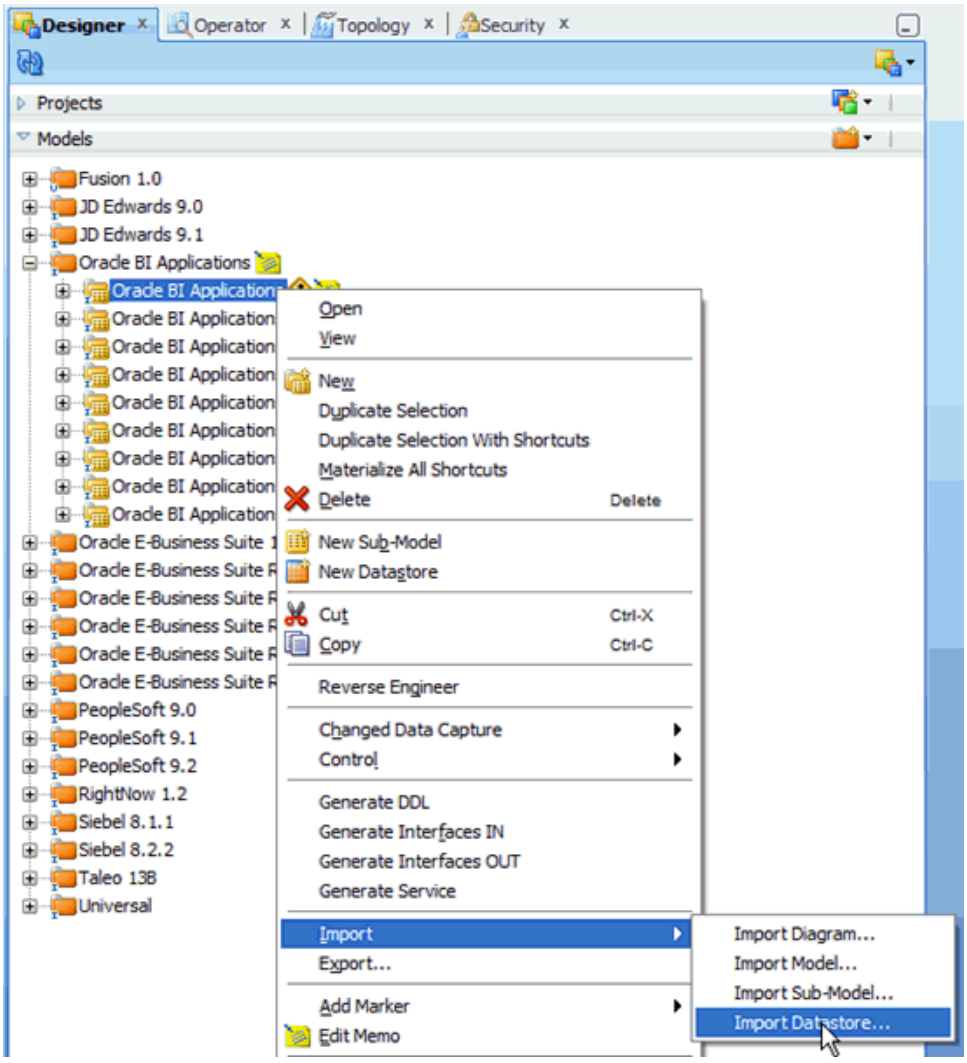
You must import the datastores prior to importing the customized ETL tasks.

Note: The following steps are implemented in the DEV repository only. For migrating changes to TEST and PROD repositories, refer to *BI Applications 11.1.1.7.1 – Migrating Configurations and Customizations from Development to a Test OR Production Environment*, My Oracle Support Document 1587872.1

To import the customizations:

1. Launch the ODI Studio client and connect to the ODI Repository for BI Applications 11.1.1.10.1.
2. Navigate to Designer > Models > Oracle BI Applications (folder) > Oracle BI Applications (Model)
3. Create original and custom versions of the model.
   a. Right click the model, select **Version** and then **Create Version**. Create an initial version.
   b. Perform these steps again to create the version with customizations.

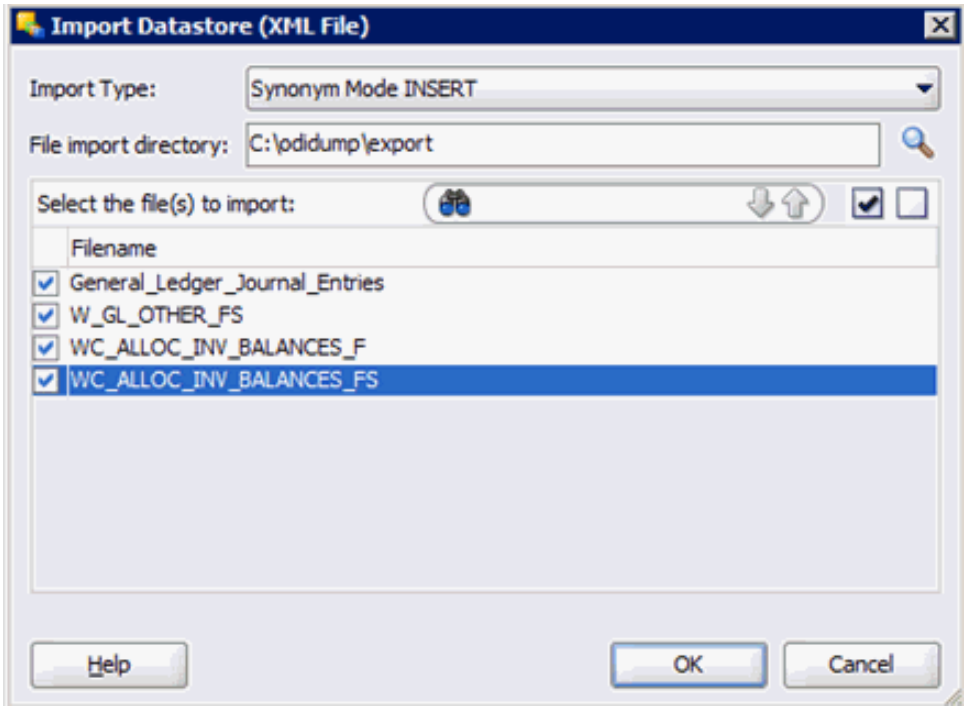
   Once the second version is complete, the two versions will match. However, after the customizations are imported, the two will no longer match. The original version reflects the out-of-the-box datastores while the new version reflects the merged datastores, allowing comparison between the two.
4. Import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



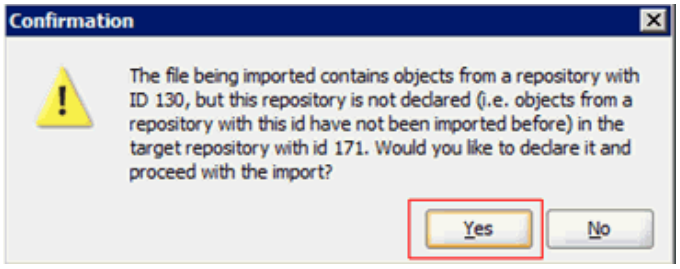
c. In the Import Datastore window, ensure that **Import Type** is **Synonym Mode INSERT**. Update mode will update existing columns to reflect their pre-upgrade state while Insert/Update mode will delete columns that were introduced in the upgrade repository but do not exist in the pre-upgrade repository.

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

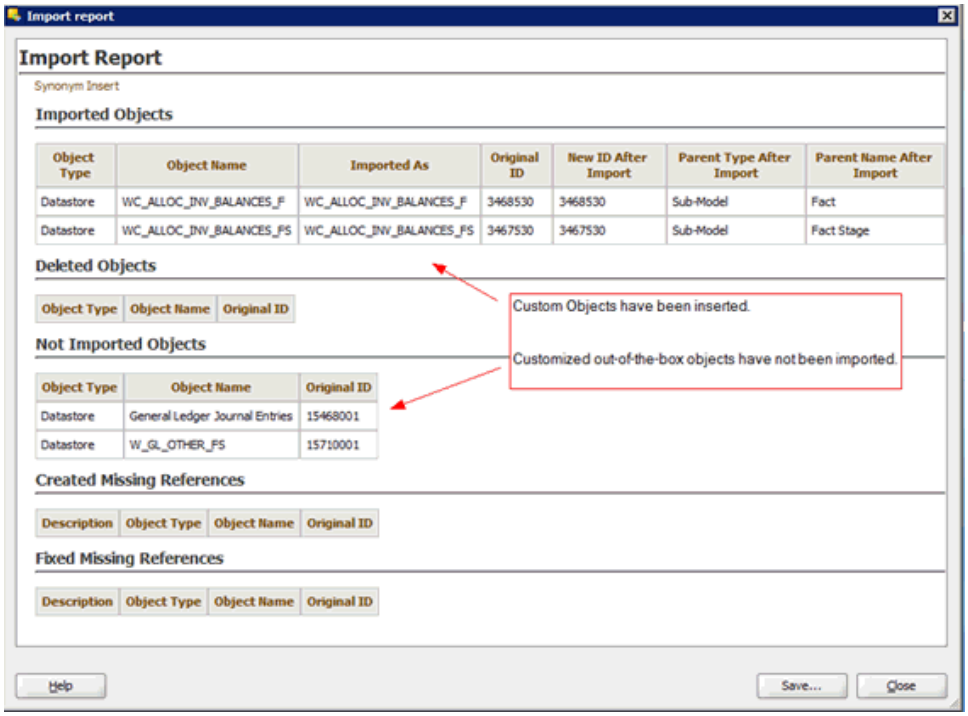
e. Select the check boxes for each datastore to be imported and click **OK**.



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.

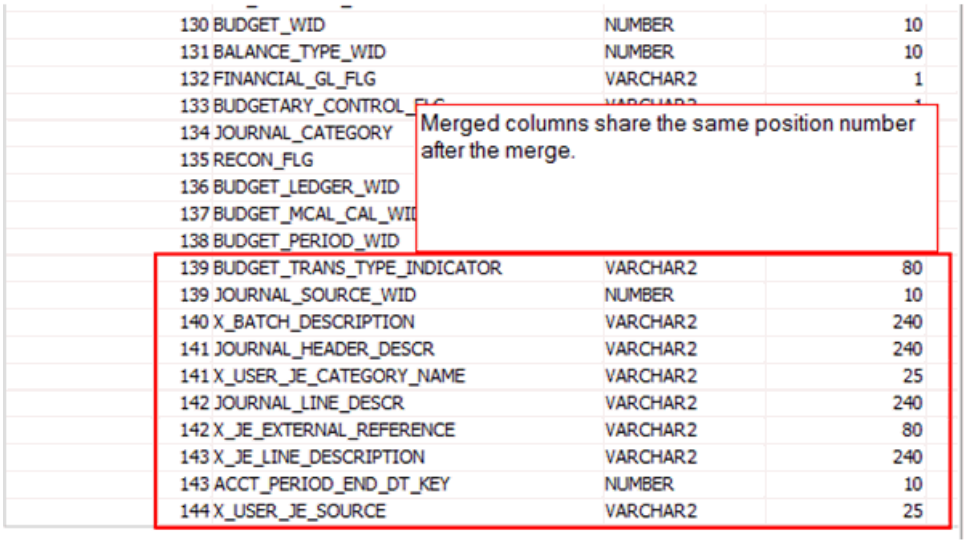


When the import completes, you should see a summary report similar to the following.



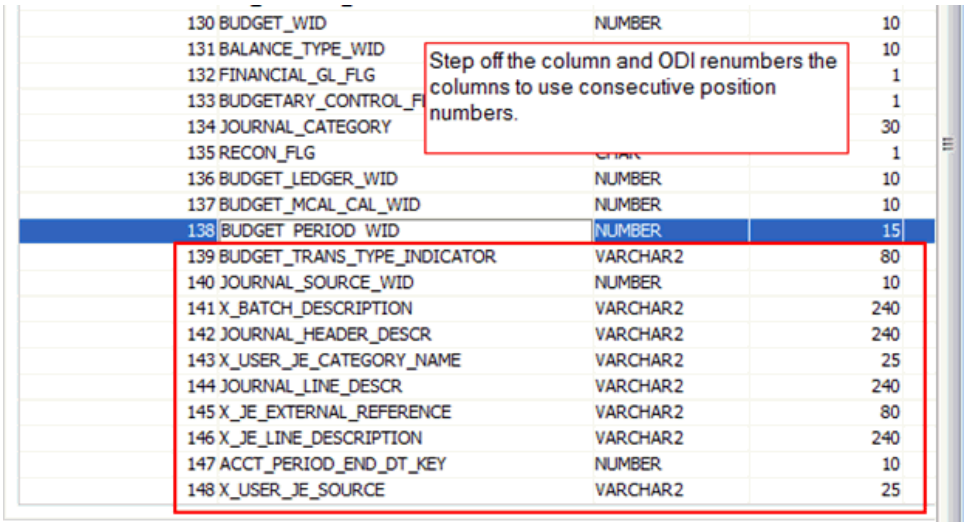
The upgrade datastores will now be merged with the pre-upgrade customizations.

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



In INSERT mode, the import will bring in the custom columns into datastore. In the 11.1.1.9.2 repository, these are usually the last columns. In the 11.1.1.10.1 repository, Oracle may have added columns and these will have a conflicting position ID, or a column simply may have moved between 11.1.1.9.2 and 11.1.1.10.1. 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.

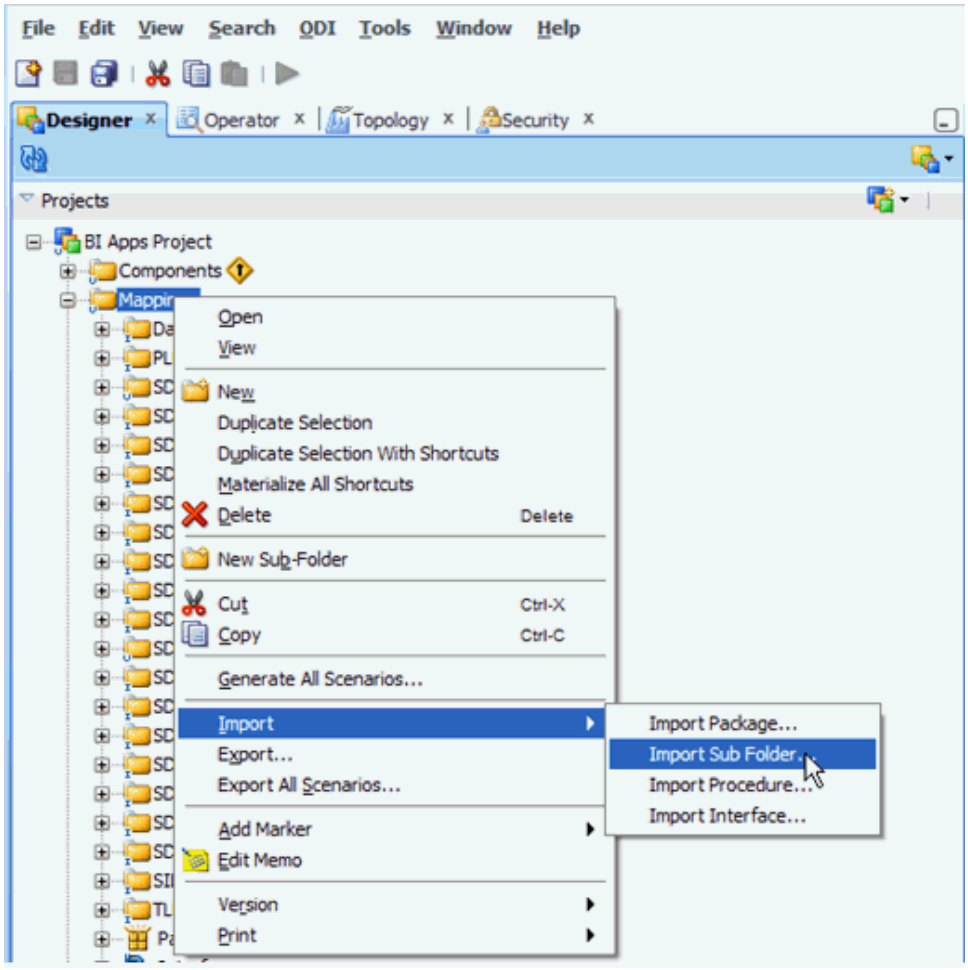


Importing Customized ETL tasks

Use these instructions to import the customized ETL tasks.

To import the customized ETL tasks:

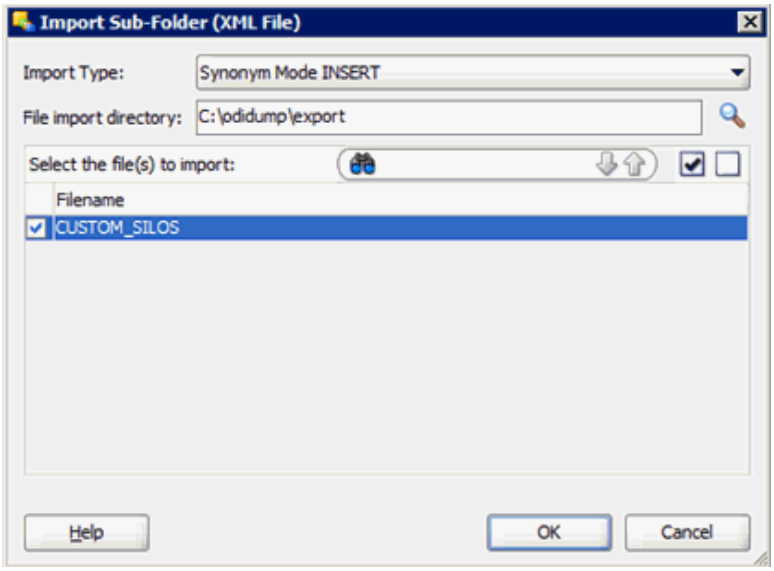
1. Launch the ODI Studio client and connect to the ODI Repository for BI Applications 11.1.1.10.1.
2. Navigate to Designer > Projects > BI Apps Project > Mappings
3. Right click **Mappings** and select **Import…** and then **Import Sub Folder…**.



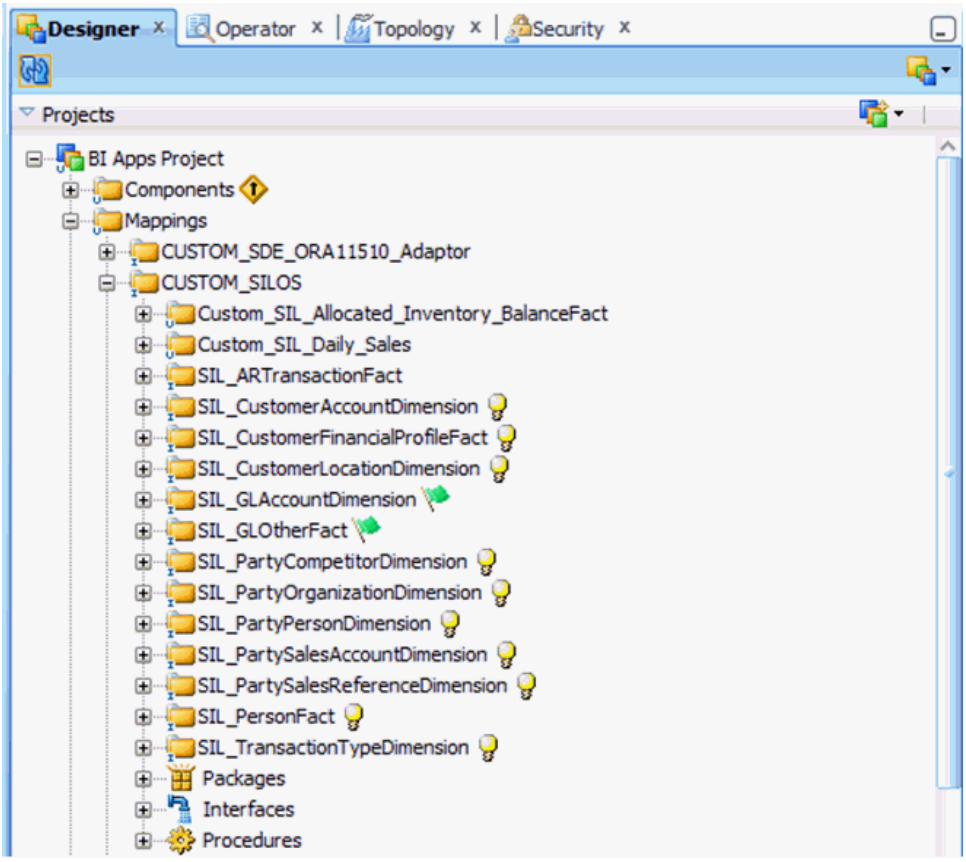
4. In the Import Sub-Folder window, ensure **Import Type** is **Synonym Mode INSERT**.

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.

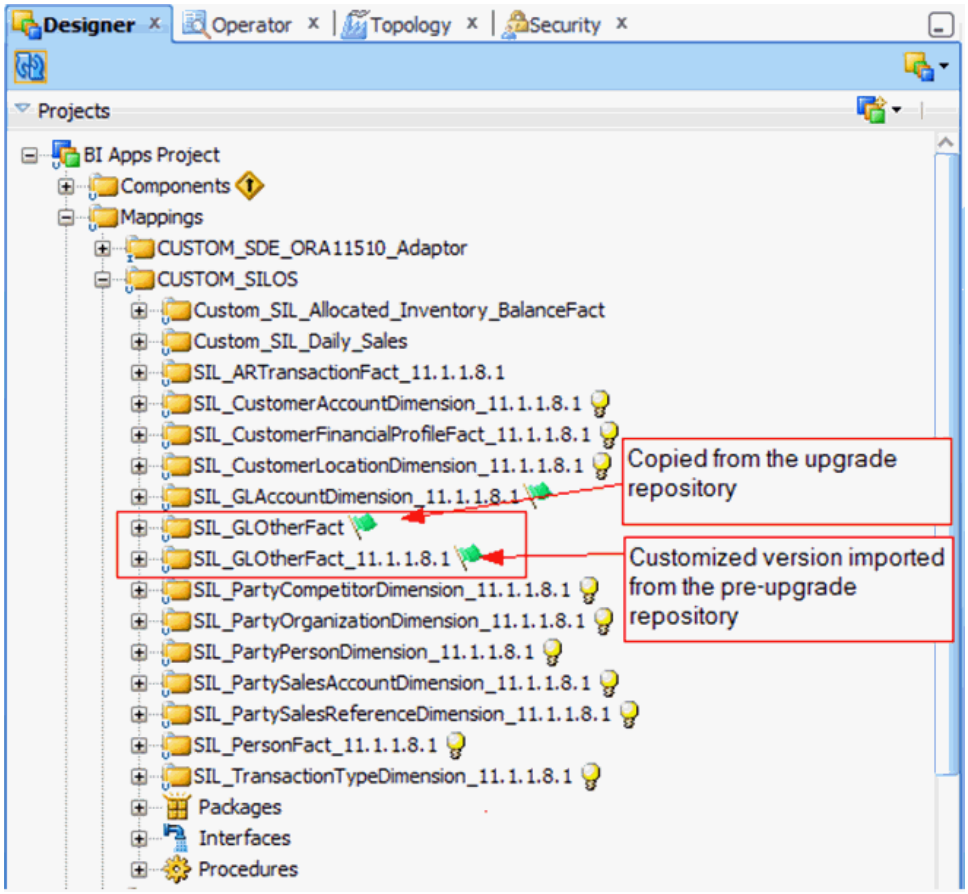


At this point, it is necessary to merge any customizations with any changes that may have been introduced in the upgrade repository. For example, a column may have been added to a table that was customized (as in the `W_GL_OTHER_F` example earlier) or bug fixes applied or content otherwise changed by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

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

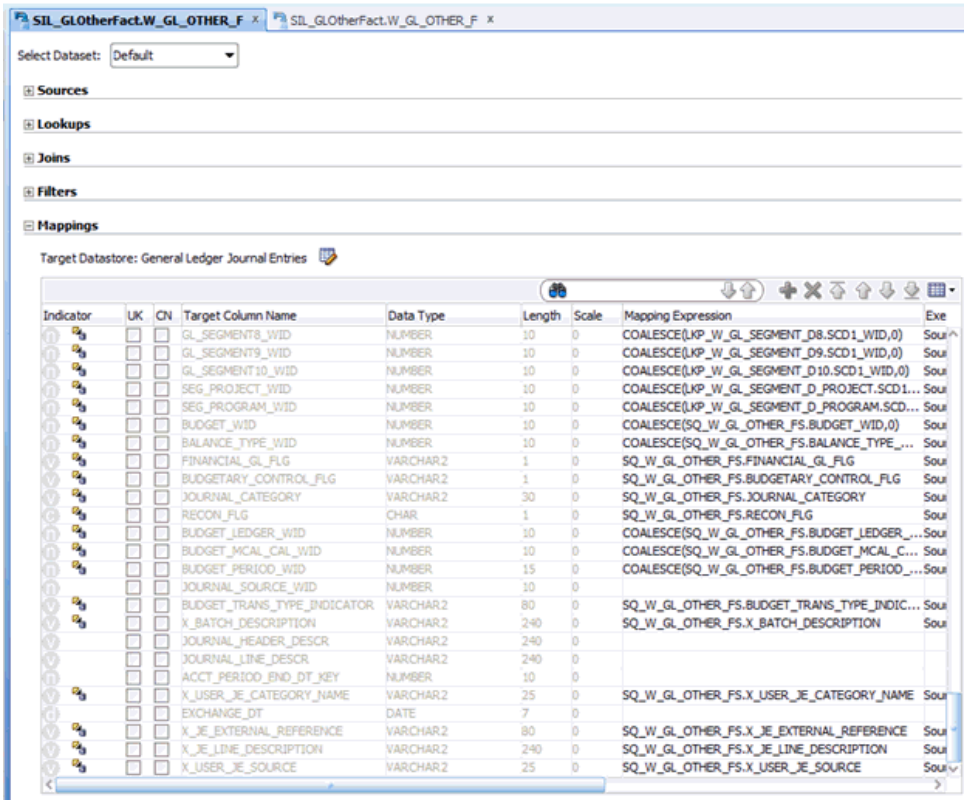
7. Rename the customized ETL task to reflect the pre-upgrade version it was based on.

8. Duplicate the out-of-the-box ETL task per the customization methodology and move to the **Custom** folder.



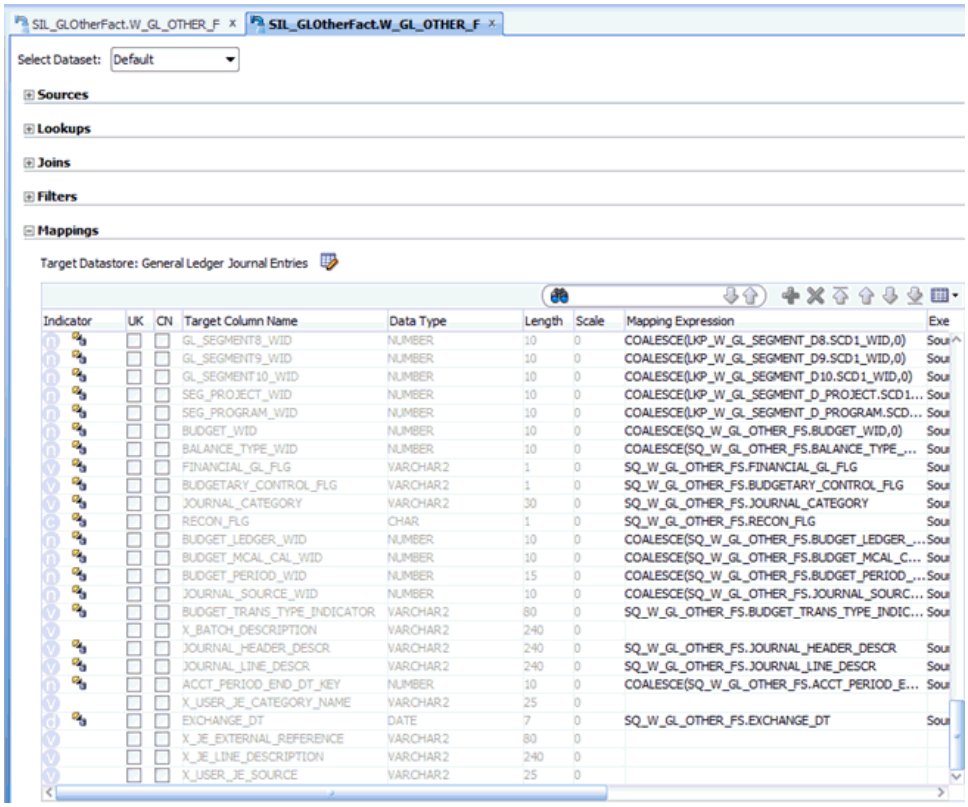
9. Inspect the customized ETL task. The custom columns are populated but any new columns introduced by Oracle are not.

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



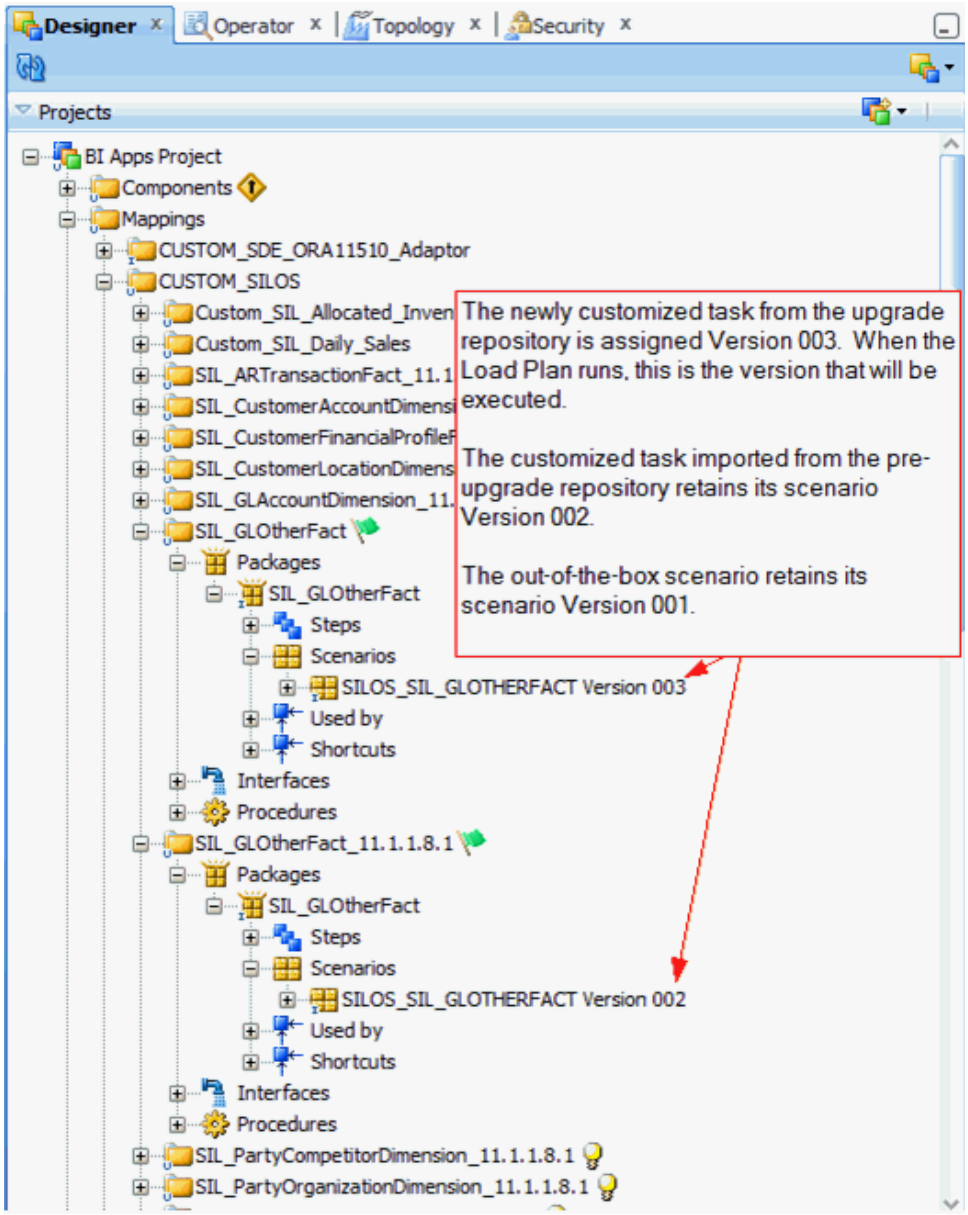
Below is the copied interface where the new columns introduced by Oracle are populated but the custom columns are not.

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

Business Analytics Warehouse Schema and Data Upgrades

This section outlines the steps to upgrade warehouse schema and data from 11.1.1.9.2 to 11.1.1.10.1.

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 BI Applications 11.1.1.9.2 to 11.1.1.10.1, you must have executed at least one incremental run in addition to a full data load in your BI Applications 11.1.1.9.2 environment.

Topics

Performing Pre-Upgrade Tasks

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

Granting New Required Privileges to <prefix>_DW

BI Applications 11.1.1.10.1 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.

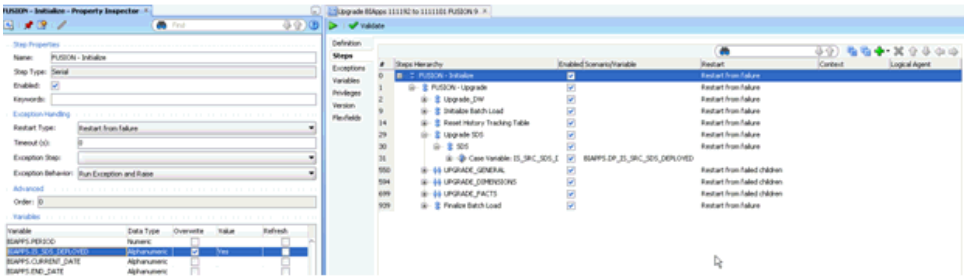
You must grant this privilege before you can execute the Upgrade Load Plans described later in this section

Upgrade Business Analytics Warehouse Schema and Data

Use these instructions to upgrade the business analytics warehouse schema and data. Additionally, perform the mandatory steps applicable to Oracle Fusion Applications source.

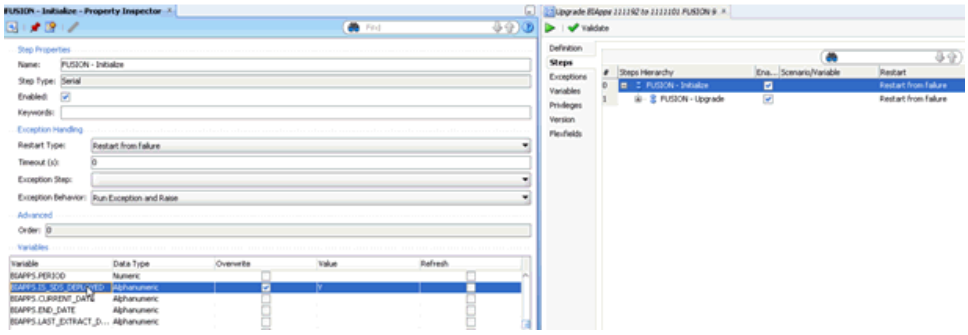
If you have Oracle Fusion Applications as the source, then you must perform the following steps:

1. Navigate to the **Upgrade BIApps 111192 to 1111101 FUSION 9** load plan under Predefined Load Plans > Upgrade.

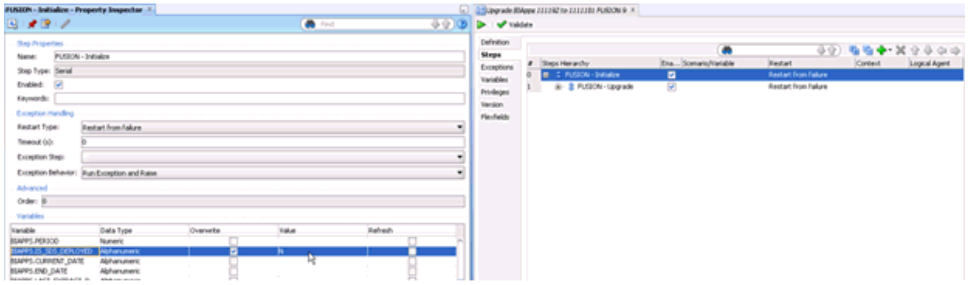


2. In the Property Inspector windows, set the applicable value for the IS_SDS_DEPLOYED variable for the root step.

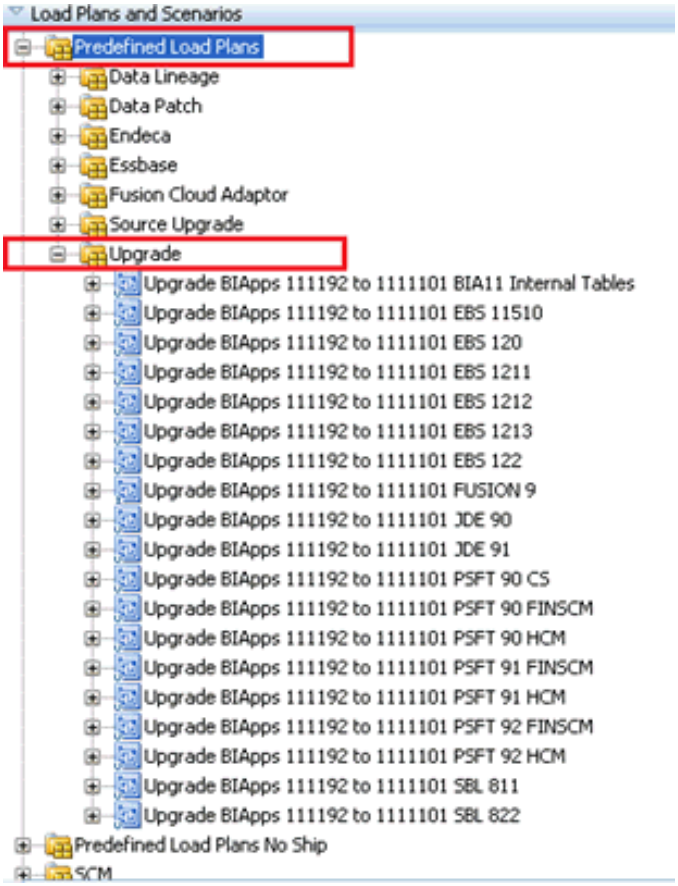
   - Set the value to `Y` if the SDS is deployed.



   - Set the value to `N` if the SDS is not deployed.

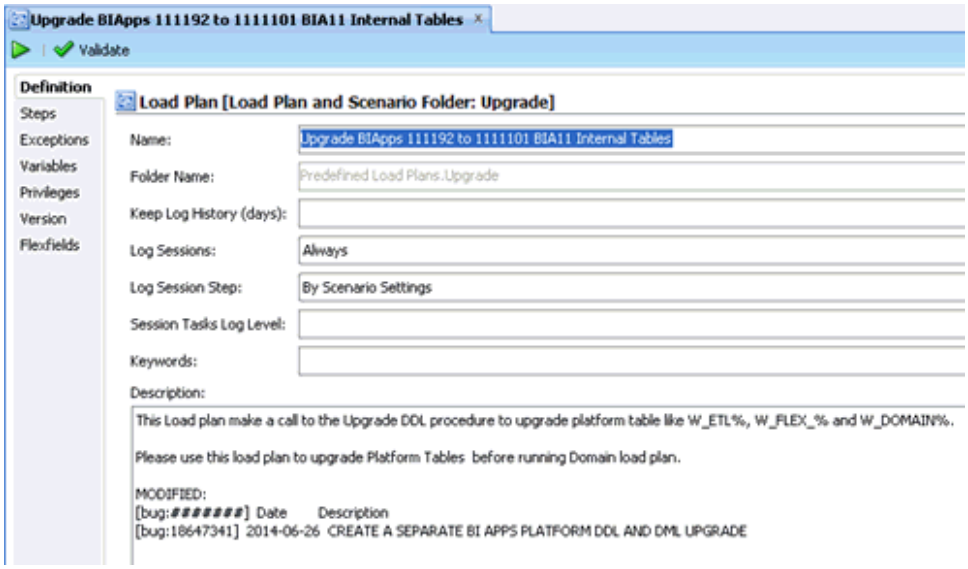


Note: The Upgrade Load Plans can only be executed from ODI Studio. Before running **Domain-Only Load Plans**, you must first execute **Upgrade BIApps 111192 to 1111101 BIA11 Internal Tables** predefined load plan in order to upgrade the data warehouse domain specific internal tables.

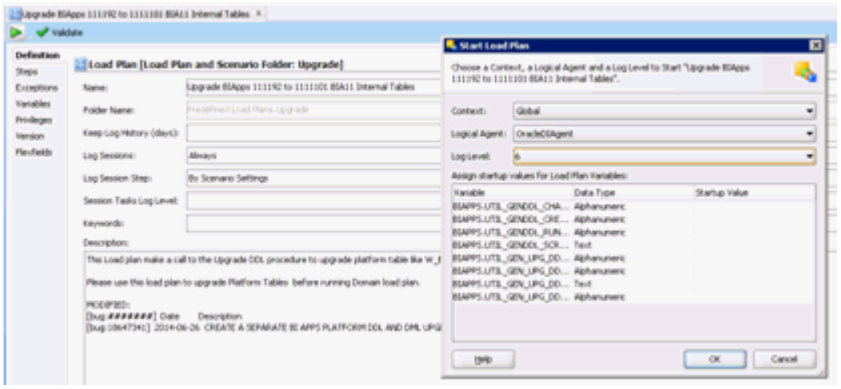


To upgrade the business analytics warehouse schema and data:

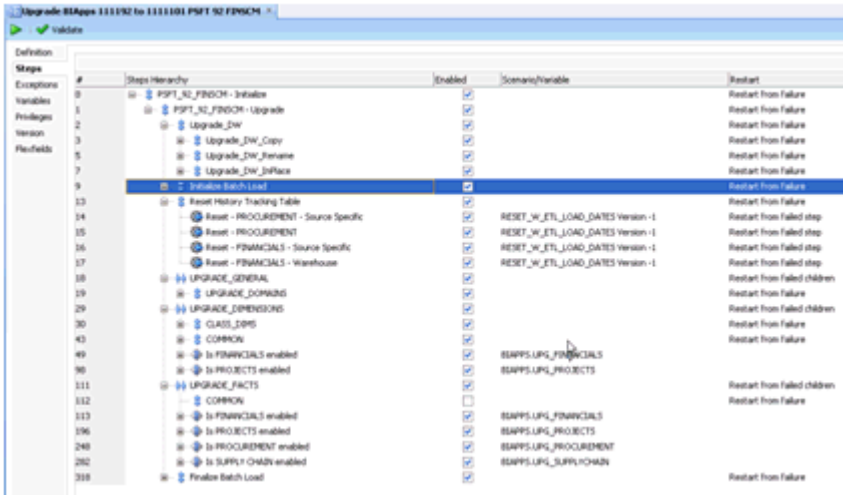
1. Run the Internal load plan.



2. No need to pass any Startup Value.

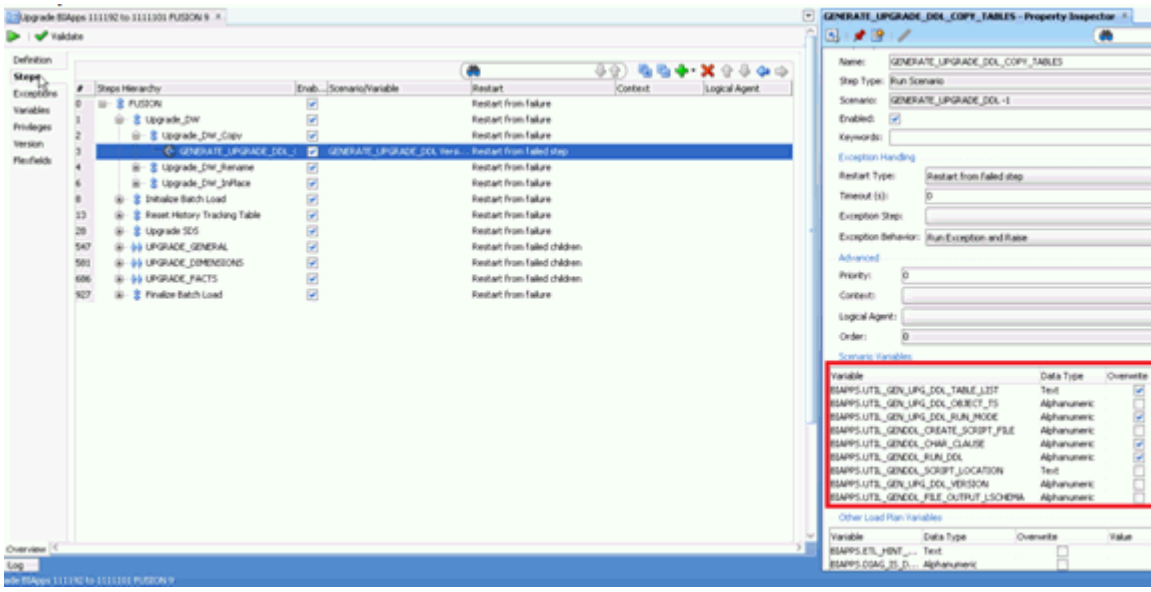


3. Execute the specific adapter upgrade load plan to upgrade schema and warehouse data.



4. **Note:** If there is a failure in the schema upgrade such as a failure in Upgrade LP due to the Upgrade DW DDL procedure DDL statements execution on your warehouse, then perform these steps to run Upgrade DW DDL procedure from outside the upgrade LP.

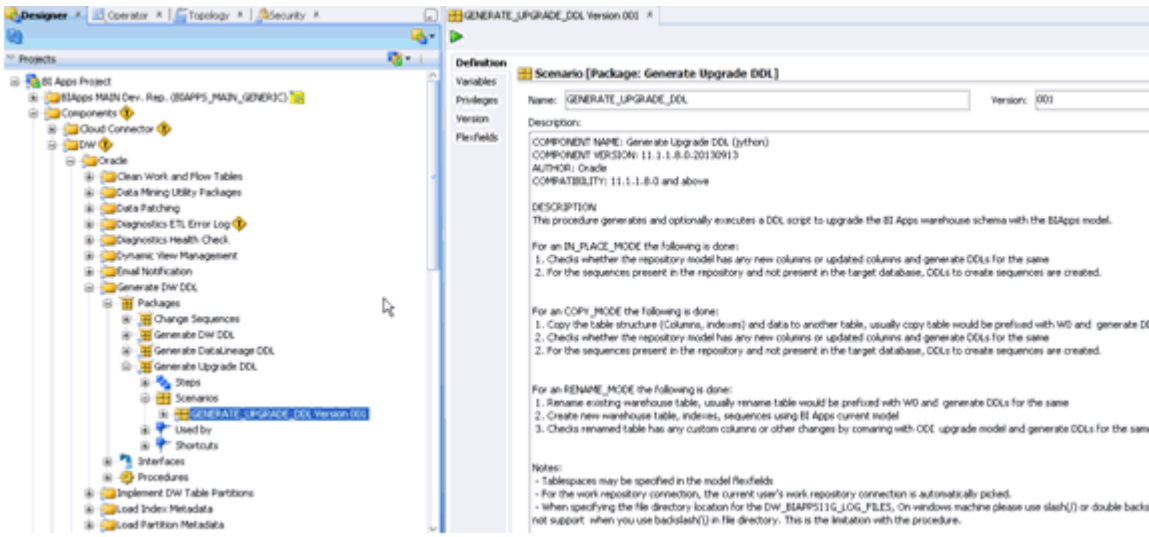
   Note down the GENERATE_UPGRADE_DDL procedure failure step parameter values by opening the upgrade load plan.



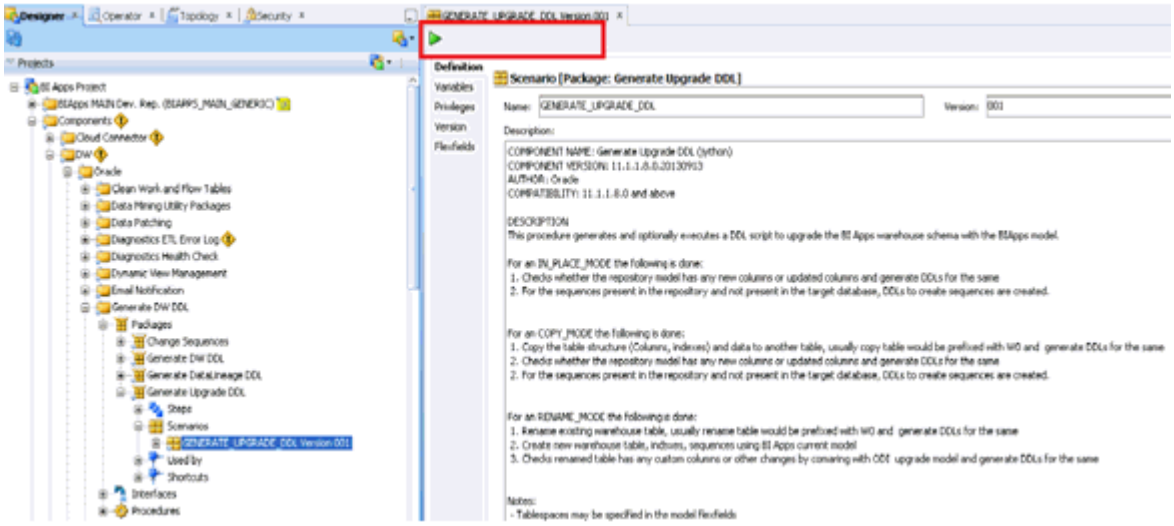
For example, in the image, four scenario variables are overwritten. You need to note down these parameter values and when running the Upgrade DW DDL procedure from outside the upgrade LP, you must use the same values.

```
BIAPPS.UTIL_GEN_UPG_DDL_TABLE_LIST:
W_AP_HOLDS_F,W_AP_XACT_F,W_AR_XACT_F,W_PURCH_RQSTN_LINE_F,W_RQSTN_LINE_COST_F,W_NE
G_RESPONSES_F,W_NEG_AWARDS_F,W_NEG_LINES_F,W_NEG_INVITATIONS_F,W_PURCH_COST_F,W_PU
RCH_RCPT_F,W_PURCH_SCHEDULE_LINE_F,W_PURCH_CHANGE_ORDER_F,W_AP_INV_DIST_F
BIAPPS.UTIL_GEN_UPG_DDL_RUN_MODE -- COPY_MODE
BIAPPS.UTIL_GENDDL_CHAR_CLAUSE -- Y
BIAPPS.UTIL_GENDDL_RUN_DDL -- Y
```

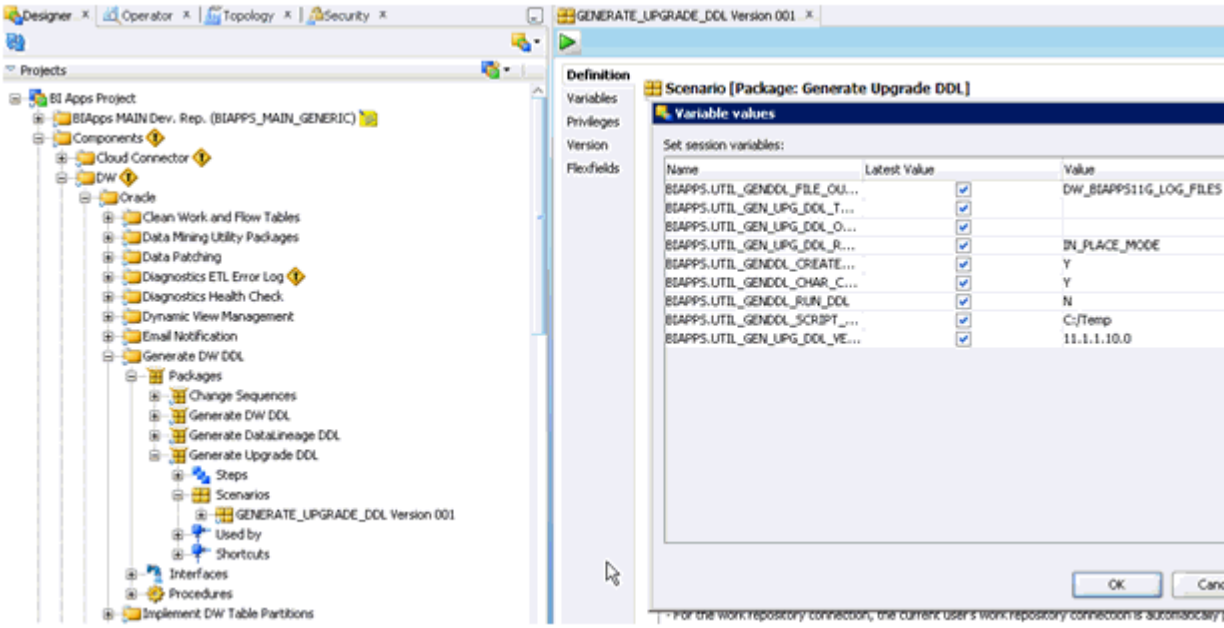
5. Navigate to the Designer tab in ODI Studio, go to BI Apps Project, then Components, the DW folder, next Oracle, and then select the Generate DW DDL folder path to open GENERATE_UPGRADE_DDL scenario.



6. Click the Run icon to execute the procedure

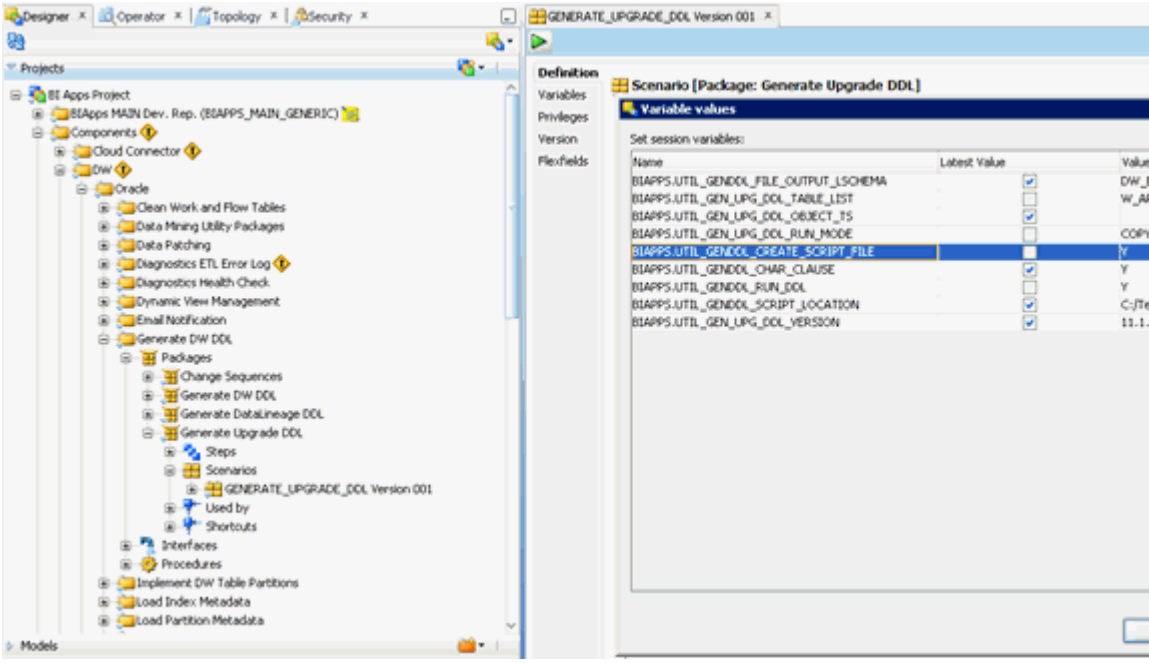


While running the procedure, ODI Studio prompts for variable values as shown in the image:



Overwrite the four variable values that you noted down. Apart from the four variable values, overwrite `BIAPPS.UTIL_GENDDL_CREATE_SCRIPT_FILE` variable value with `Y` to create a script file and also overwrite `BIAPPS.UTIL_GENDDL_SCRIPT_LOCATION` variable value with a valid server location to place the generated script and log files.

Click on OK button to run the procedure.



7. After the successful execution of the Upgrade DW DDL procedure, mark Upgrade LP step **Upgrade_DW_Copy** as completed and restart the load plan to continue running for further steps.

Performing Post-Upgrade Tasks

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

A

New ETL Content in Oracle BI Applications 11.1.1.10.1

New ETL content in Oracle BI Applications 11.1.1.10.1 is described in these topics.

Topics

Common Dimensions

This section lists the upgrade changes between 11.1.1.9.2 to 11.1.1.10.1 in Common Dimensions.

Supplier Site

1. Tables with records updated:

   PeopleSoft 91 and 92 (On Premise)

   - `W_SUPPLIER_ACCOUNT_D: VET_OWNED_FLG`
   - `W_SUPPLIER_ACCOUNT_D: HUB_ZONE_FLG`
   - `W_SUPPLIER_ACCOUNT_D: DISAB_VET_OWNED_FLG`

2. Issue and bug fixes covered:

   PeopleSoft

   - Added ability to source business classifications in Oracle BI Applications from `PS_VNDR_RPT_ELEM`.

Fiscal Calendar Dimension

1. New feature introduced:

   - W_MCAL_CAL_DS and W_MCAL_CONTEXT_GS are added in 11.1.1.10.1.

     The existing SDE tasks for the corresponding W_MCAL_CAL_D and W_MCAL_CONTEXT_G table are now used to populate these new DS and GS tables. Additionally, new SIL tasks are created to load W_MCAL_CAL_D and W_MCAL_CONTEXT_G from the respective DS and GS tables.

     If you are using OLTP fiscal calendars, then this enhancement enables you to generate separate SDE and SIL+PLP load plans. Prior to this enhancement, you had to generate a single load plan that has both SDE and SIL+PLP. This enhancement enables you to load from multiple sources in parallel without inserting the unspec row, but deferring it to the SIL phase which would only add a single unspec row. Thereby avoiding the index failure error.

2. Issues and bug fixes covered:

   - Created W_MCAL_CAL_DS for better implementation of Fiscal calendar ETL.

Customer relationship management (CRM)

This section lists the upgrade changes between 11.1.1.9.2 to 11.1.1.10.1 in CRM.

Marketing

Following are the upgrade changes:

1. Tables with records updated:

   - W_MKTG_LEAD_OPTY_H

     Updates are applicable to Fusion 9 and Siebel adaptors

2. Tables with data model changes:

   W_MKTG_LEAD_OPTY_H

   The following columns have been added and data upgraded:

   - CHANGED_ON_DT
   - CREATED_ON_DT
   - DELETE_FLG
   - ETL_PROC_WID
   - INTEGRATION_ID [NULLABLE ='N']
   - W_UPDATE_DT

   W_MKG_LEAD_RESOURCE_H

   The following columns have been added with no data upgrade impact:

   - ACCESS_LEVEL_CODE
   - EMPLOYEE_WID
   - FUNCTION_CODE

- PRIMARY_FLG
- LEAD_WID [NULLABLE ='N']

W_MTKG_LEAD_TERR_H

The following columns have been added with no data upgrade impact:

- LEAD_WID

Partner

Following are the upgrade changes:

1. Tables with records updated:
   - W_PARTNER_PRESENCE_F

     LKP condition change for W_PARTNER_PRESENCE_F.INDUSTRY_WID and for W_PARTNER_PRESENCE_F.PRIMARY_CONTACT_WID
   - W_PARTNER_PGRM_MEASURE_F

     LKP condition change for W_PARTNER_PGRM_MEASURE_F.PRIMARY_CONTACT_WID
2. Tables with data model changes:
   - W_PARTNER_RESOURCE_H

     New columns added and data upgraded: ACCESS_LEVEL_CODE, EMPLOYEE_WID [NULLABLE ='N'], FUNCTION_CODE, OWNER_FLG. No data loaded for FA9 adaptor upgrade
   - W_PARTNER_CONTACT_H, W_PARTNER_CONTACT_HS, W_PARTNER_CONTACT_H_DEL, W_PARTNER_CONTACT_H_PE

     New tables added. Table not part of FA9 Adaptor LP.
3. Issues and bug fixes covered:
   - Bug 19926588 - REL10: Tracking bug for BUG 19886962 fix on Partner Measure Lookup on W_EMPLOYEE
   - Bug 19509666 - rel10 CA:PRM:OTBI-E:INDUSTRY_WID is not resolved in partner presence fact
   - Bug 19503812 - rel10 otbi-e:primary_contact_wid not resovled in w_partner_presence_f

Sales

Following are the upgrade changes:

1. Tables with records updated:
   - W_OPTY_D
   - W_HIST_OPTY_D
   - W_REVN_TERR_H

- W_OPTY_STG_F

2. Tables with data model changes:

   - W_OPTY_D

     New column added and data upgraded: LINE_OF_BUSINESS_CODE

   - W_HIST_OPTY_D

     New column added and data upgraded: LINE_OF_BUSINESS_CODE

   - W_REVN_TERR_H

     New column added and data upgraded: REVN_TERR_FLG

   - W_OPTY_STG_F

     New column added and data upgraded: OPTY_ID

     Note: For the following newly added columns, there is no upgrade impact on FA adaptor.

   - W_SALES_ACCOUNT_RESOURCE_H

     ACCESS_LEVEL_CODE

     MEMBER_FUNCTION_CODE

     PRIMARY_RESOURCE_FLG

   - W_REVN_TERR_H

     ASSIGNMENT_TYPE

     LOCK_ASSIGNMENT_FLG

     TERR_BASED_ASSIGNMENT_FLG

     OPTY_WID

   - W_REVN_FCST_ITEM_F

     FCST_ITEM_TYPE_CODE

     FCST_ITEM_WIN_PROB

     REVN_ITEM_TYPE_CODE

     REVN_ITEM_WIN_PROB

   - W_OPTY_RESOURCE_H

     ACCESS_LEVEL_CODE

     EMPLOYEE_WID

     FUNCTION_CODE

     LOCK_ASSIGNMENT_FLG

     OPTY_RES_FLG

     OPTY_WID

   - W_OPTY_CON_F

AFFINITY_LEVEL_CODE

CONTACTED_FLG

FUNCTION_CODE

INFLUENCE_LEVEL_CODE

PRIMARY_CONTACT_FLG

3. Issues and bug fixes covered:

   - Bug 21166412 - REL10 CRM: Uptake for Opty Terr relation derived via sales account
   - Bug 20883032 - REL10 OBIA: Sort order is missing for Dim - Open Date.Open Enterprise Period

Enterprise Asset Management (EAM)

This section lists the upgrade changes after 11.1.1.9.2 to 11.1.110.1 upgrade.

Upgrade Changes

Following are the upgrade changes:

1. Tables truncated or records deleted:

   - `W_EAM_RSRC_STD_F`

2. Tables with records updated:

   - `W_EAM_RSRC_STD_F.EXCHANGE_DT`

3. Issues and bug fixes covered:

   - Bug 19830624 :W_EAM_RSRC_STD_F single-row subquery returns more

     The EXCHANGE_DT in W_EAM_RSRC_STD_FS was mapped to the WIP_OPERATION_RESOURCES.LAST_UPDATE_DATE. WIP_OPERATION_RESOURCE table in source can have multiple records for the combination of RESOURCE_ID,WIP_ENTITY_ID and OPERATION_SEQ_NUM which is the grain of the fact table. Hence, added aggregation rule on the EXCHANGE_DT to return only one record.

   - Bug 20435303- EAM domain - integration_id mismatch

     INTEGRATION_ID should match `DOMAIN_CODE || '~' || DOMAIN_MEMBER_CODE`.Hence, the 'MAINTENANCE' word is removed from the integration ID formations for the following domain codes:

     – `EAM_FAILURE_CODE`

     – `EAM_CAUSE_CODE`

     – `EAM_RESOLUTION_CODE`

     Now the integration ID matches `DOMAIN_CODE || '~' || DOMAIN_MEMBER_CODE` for the above mentioned domain codes.

Financials

This section lists the upgrade changes after 11.1.1.9.2 to 11.1.110.1 upgrade.

General Ledger (GL)

Following are the upgrade changes:

1. Tables truncated or records deleted:
   - W_GL_OTHER_F
   - W_PSFT_BAL_SEGMENT_DH_PS
   - W_BALANCING_SEGMENT_DH
   - W_PSFT_NAT_ACCOUNT_DH_PS
   - W_NATURAL_ACCOUNT_DH
   - W_PSFT_GL_SEGMENT_DH_PS
   - W_GL_SEGMENT_DH
2. New columns included in base fact:
   - W_GL_OTHER_F
     - GL_JOURNAL_DT (applicable only to PeopleSoft (PSFT) for now)
     - JOURNAL_LINE_REFERENCE (applicable only to PSFT for now)
3. Tables with records added:

   Added the following tables in 10.1 and populate mapping information of Ledger, GL account, and Periods for Fusion Accounting Hub Co-existence:
   - W_LEDGER_MAP_G
   - W_GL_ACCOUNT_MAP_G
   - W_MCAL_PERIOD_MAP_G
4. Issues and bug fixes covered:

   PSFTxx
   - Bug 20893695 - When a PSFT tree is a summary tree and if the detail table and the corresponding node table are different but the Node ID has the same value as one of the detail nodes, then the current extract causes duplicates.
   - Bug 20012739 - Populate Created_On_Dt for PSFT ChartField PS tables so that incremental runs update data correctly.
5. New attributes:
   - Financials - GL Detail Transactions
     - Financials - GL Detail Transactions > Document Details > GL Journal Date

  - Financials - GL Detail Transactions > Document Details > Journal Line Reference

  PSFTxx

  - Populate GL Journal Date. Sourced from `PS_JRNL_HEADER.JOURNAL_DATE`
  - Populate Journal Line Reference. Sourced from `PS_JRNL_LN.JRNL_LN_REF`

- Financials - GL Balance Sheet
  - Financials - GL Balance Sheet > Ledger > Target Ledger ID
  - Financials - GL Balance Sheet > Ledger > Source ID
  - Financials - GL Balance Sheet > Time > Target Fiscal Period ID
  - Financials - GL Balance Sheet > GL Account > Target GL Account ID

  Sourced from GL_XFR_LEDGER_MAPPINGS, GL_XFR_CCID_MAPPINGS, and GL_XFR_PERIOD_MAPPINGS for the ledger, the GL account, and the period respectively. Only applicable for EBSR12.2+.

  EBSR122

  Populate setup mappings of Ledger, GL account, and Periods for Fusion Accounting Hub Co-existence. These tables are empty when this functionality is not used.

6. Data model changes:

`W_GL_OTHER_F`

Seq#	Column Name	Data Type (length, precisions)	Change Type(Existing/New/ Obsolete)
145	GL_JOURNAL_DT	DATE(7)	New
246	JOURNAL_LINE_REFERENCE	VARCHAR2(30)	New

`W_LEDGER_MAP_G`

Seq#	Column Name	Data Type (length, precisions)	Change Type(Existing/New/ Obsolete)
1	TRG_LEDGER_ID	VARCHAR2(80)	New
2	ROW_WID	NUMBER(10)	New
3	W_INSERT_DT	DATE	New
4	W_UPDATE_DT	DATE	New
5	DATASOURCE_NUM_ID	NUMBER(10)	New

Seq#	Column Name	Data Type (length, precisions)	Change Type(Existing/New/ Obsolete)
6	ETL_PROC_WID	NUMBER(10)	New
7	INTEGRATION_ID	VARCHAR2(80)	New
8	TENANT_ID	VARCHAR2(80)	New
9	X_CUSTOM	VARCHAR2(10)	New

W_GL_ACCOUNT_MAP_G

Seq#	Column Name	Data Type (length, precisions)	Change Type(Existing/New/ Obsolete)
1	TRG_INTEGRATION_ID	VARCHAR2(240)	New
2	TRG_GL_ACCOUNT_ID	VARCHAR2(2000)	New
3	ROW_WID	NUMBER(10)	New
4	W_INSERT_DT	DATE	New
5	W_UPDATE_DT	DATE	New
6	SRC_EFF_FROM_DT	DATE	New
7	SRC_EFF_TO_DT	DATE	New
8	DATASOURCE_NUM_ID	NUMBER(10)	New
9	INTEGRATION_ID	VARCHAR2(80)	New
10	TENANT_ID	VARCHAR2(80)	New
11	X_CUSTOM	VARCHAR2(10)	New
12	ETL_PROC_WID	NUMBER(10)	New

W_MCAL_PERIOD_MAP_G

Seq#	Column Name	Data Type (length, precisions)	Change Type(Existing/New/ Obsolete)
1	TRG_MCAL_PERIOD_ID	VARCHAR2(80)	New
2	ROW_WID	NUMBER(10)	New
3	W_INSERT_DT	DATE	New
4	W_UPDATE_DT	DATE	New

Seq#	Column Name	Data Type (length, precisions)	Change Type(Existing/New/ Obsolete)
5	DATASOURCE_NUM_ID	NUMBER(10)	New
6	ETL_PROC_WID	NUMBER(10)	New
7	INTEGRATION_ID	VARCHAR2(80)	New
8	TENANT_ID	VARCHAR2(80)	New
9	X_CUSTOM	VARCHAR2(10)	New

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:
   - `W_AP_XACT_F`
     - `APPR_STATUS_WID`
     - `VALD_STATUS_WID` (*applicable only to Fusion and EBS R12xx)
3. Tables with records added:
   - `W_STATUS_D` (where `W_STATUS_CLASS` in `['FIN_AP_APPR_STATUS','FIN_AP_VALD_STATUS']`)

     (* `FIN_AP_VALD_STATUS` applicable only to Fusion and EBS R12xx)
4. Metrics calculated differently:
   - Fact - Fins - AP Transaction > # Payments
   - Fact - Fins - AP Transaction > AP Count Payments without Invoice
   - Fact - Fins - AP Transaction > AP Payment Count
5. Issues and bug fixes covered:

Enhancement/Bug	Impacted warehouse object	Impacted adapters
Bug 18510561 REL10 -RFA - AP TRANSACTION STATUS SHOWS AS __ERROR__ IN BI APPS 11.1.1.7.1	W_STATUS_D	EBS 11510 EBS R12xx Fusion PSFTxx JDExx

Enhancement/Bug	Impacted warehouse object	Impacted adapters
Bug 14648685 INCLUDE APPROVAL STATUS IN THE AP STATUS DIMENSION	W_STATUS_D W_AP_XACT_F	EBS 11510 EBS R12xx Fusion PSFTxx JDExx
Bug 10648786 ENHANCEMENT: HOW DO WE IDENTIFY AND EXCLUDE UNVALIDATED INVOICES FROM REPORTING	W_STATUS_D W_AP_XACT_F	EBS R12xx Fusion
Bug 16672435 "# PAYMENTS" AND "AP COUNT PAYMENTS WITHOUT INVOICE" EXPRESSION CHANGES	W_AP_XACT_F	EBS 11510 EBS R12xx Fusion PSFTxx
Bug 18545104 THE METRIC "AP PAYMENT COUNT" IS CONSIDERING CANCELLED PAYMENTS	W_AP_XACT_F	EBS 11510 EBS R12xx Fusion
To update Approval status wid and Validation status wid to 0 for records other than schedules	W_AP_XACT_F	EBS 11510 EBS R12xx Fusion PSFTxx JDExx
Bug 20577706 - OTBIE REL10: Some rows have null value for recon_proc_wid in w_ap/ar_xact_f	W_AP_XACT_F	EBS 11510 EBS R12xx Fusion PSFTxx JDExx
Bug 20652852 - W_AP_HOLDS_F, HELD_BY_WID and RELEASE_BY_WID will always be 0	W_AP_HOLDS_F	Fusion
Bug 20978353 - REL10 - AGING_METHOD_CODE is null in JDE AP	W_AP_AGING_BUCKETS_D	JDExx

6. New attributes:

   Financials - AP Transactions > Document Details >

   Financials - AP Invoice Aging > Document Details >

Source AP Approval Status

Source AP Approval Status Name

Source AP Approval Status Description

AP Approval Status

AP Approval Status Name

AP Approval Status Description

Following are applicable only to Fusion/EBS R12xx)

- Source AP Validation Status
- Source AP Validation Status Name
- Source AP Validation Status Description
- AP Validation Status
- AP Validation Status Name
- AP Validation Status Description

7. Data model changes:

W_AP_XACT_FS

W_AP_XACT_RECON_FS

W_AP_XACT_REV_RECON_FS

W_AP_AGN_INV_BKP_A

W_AP_AGN_INV_ENT_BKP_A

Column Name	Data Type (length, precisions)	Change Type(Existing/New/ Obsolete)
APPR_STATUS_ID	VARCHAR2(80)	New
VALD_STATUS_ID	VARCHAR2(80)	New

W_AP_XACT_F

W_AP_AGING_INVOICE_A

W_AP_AGING_INVOICE_ENT_A

Column Name	Data Type (length, precisions)	Change Type(Existing/New/ Obsolete)
APPR_STATUS_ID	NUMBER(10)	New
VALD_STATUS_ID	NUMBER(10)	New

Receivables (AR)

Following are the upgrade changes:

1. Tables truncated or records deleted:
   - W_AR_XACT_FS (truncated)
   - W_AR_XACT_F (deleted and inserted)
2. Tables with records added:

   W_XACT_TYPE_D (where INTEGRATION_ID like ['ACCT_DOC~RECEIVABLE~CASH APPLICATION~%','ACCT_DOC~RECEIVABLE~PAYMENT~%'])
3. Metrics calculated differently:
   - Fact - Fins - AR Transaction > AR Applied Amount
   - Fact - Fins - AR Transaction > AR Count Payment Transactions
   - Fact - Fins - AR Transaction > AR Total Payment Amount
   - Fact - Fins - AR Transaction > AR Unapplied Payment Amount
4. Issues and bug fixes:

Enhancement/Bug	Impacted warehouse object	Impacted adapters
Bug 18510561 REL10 -RFA - AP TRANSACTION STATUS SHOWS AS __ERROR__ IN BI APPS 11.1.1.7.1	W_STATUS_D	EBS 11510 EBS R12xx Fusion PSFTxx JDExx
Bug 17412308 EBS/ FUSION: AR PAYMENT AMOUNT TO BE FURTHER CATEGORIZED	W_XACT_TYPE_D W_AR_XACT_F	EBS 11510 EBS R12xx Fusion
Bug 14536773 - PS1-FIN-AR-PSFT90-W_AR_XACT_F.UOM_CODE NOT LOADED FOR INVOICE ITEMS	W_AR_XACT_F	PSFTxx
Bug 20577706 - OTBIE REL10: Some rows have null value for recon_proc_wid in w_ap/ ar_xact_f	W_AR_XACT_F	EBS 11510 EBS R12xx Fusion PSFTxx JDExx
Bug 20516845 - PSFT - RECEIPT_NUM and amount sign are incorrect for PAYMENT type in W_AR_XACT_F	W_AR_XACT_F	PSFTxx

Enhancement/Bug	Impacted warehouse object	Impacted adapters
Bug 20990173 - REL9 TO REL10 UPG - Incorrect Domain mapping for AR Transaction Subtype-PSFT	W_XACT_TYPE_D W_DOMAIN_MEMBER_MAP_G	PSFTxx
Bug 19802482 - Rel10AR_AGING_METHOD_CODE is displaying Companycode instead of AgingMethodcode	W_AR_AGING_BUCKETS_D	JDExx

Profitability (Revenue / COGS)

Following are the upgrade changes:

1. Tables truncated or records deleted:
   - `W_GL_REVN_FS` (records deleted)
   - `W_GL_REVN_F` (records deleted and re-inserted)
2. Issues and bug fixes:

Enhancement/Bug	Impacted warehouse object	Impacted adapters
Bug 20917665 - Special Character in EBS Table Fails SDE_ORA_GLREVENUEFACT	W_GL_REVN_FS W_GL_REVN_F	EBS 11510 EBS R12xx Fusion PSFTxx

3. New attributes:

   COGS: New RPD Subject Area **Financials – GL Cost of Goods Sold Analysis**. The new subject area is used to support GL Subledger drill down functionality. This subject area contains the attributes which are exposed from BMM layer attributes that exist in prior releases.

4. Data model changes

Table Name	Column Name	Change
W_GL_REVN_FS	SALES_ORDER_ITEM	Existing column Data Type changed from NUMBER to VARCHAR2(30)
W_GL_REVN_F	SALES_ORDER_ITEM	Existing column Data Type changed from NUMBER to VARCHAR2(30)

Human Resources

This section lists the 11.1.1.9.2 to 11.1.1.10.1 upgrade changes.

Recruitment

Following are the upgrade changes:

1. Issue and bug fixes covered:

Bug Number	Issue	Resolution
19665088 - RCRTMT: Job Requisition Open since(days)has negative values for Drafted Reqs	RQSTN_OPEN_TO_EVNT_DAYS is showing negative for Requisition Draft events	When Event Date is earlier to Requisition Open Date, RQSTN_OPEN_TO_EVNT_DAYS should be null.
19835082 - RCRTMT:EBS::ASMT_END_DT when prior application termination happens	ASMT_END_DT gets value of Application Terminated Date in cases where Application Terminated Date is prior to Assessment Start Date. This is in case when application is terminated and then is resumed later.	The ASMT_END_DT calculation is modified to pick Application Termination Date only if it happens after Assessment Start Date.
19672983 - RCRTMT: Requisition Closed date should be latest in case Req ws filled twice	Enhancement: The requirement is to use latest close date.	Closed date in Job Requisition Accumulated Snapshot is calculated using earliest close date.
19770055 - RQSTN Closed Date High Date when no requisition	For Unspecified row in W_JOB_RQSTN_ACC_SNP_F, RQSTN_CLOSED_DT is having high date.	RQSTN_CLOSED_DT set to Null for unspecified row.

2. Data model changes in ODI:

   New columns added to `W_RCRTMNT_EVENT_TYPE_D`. They will be null for EBS, PSFT adaptors:

   - `CSW_WORKFLOW_CODE`
   - `CSW_STEP_CODE`
   - `CSW_STATUS_CODE`

Time and Labor

Following are the upgrade changes:

1. Tables truncated or records deleted:

   - `W_TL_AGE_BAND_D`
   - `W_TLB_RPTD_FS/F`

- W_TLB_PRCSD_FS/F

2. New columns included in base fact:

   - TIMECARD_CSMR_CNFG_SET_WID

3. Issues and bug fixes covered:

   Silos

Bug Number	Issue	Resolution
21347039	W_TLB_AGE_BAND_D, CREATED_BY_WID and CHANGED_BY_WID were NULL	W_TLB_AGE_BAND_D CREATED_BY_WID and CHANGED_BY_WID set to 0, there is no source for those.

   Fusion

Bug Number	Issue	Resolution
17749933	Add Fusion Time and Labor adaptor support	Added Fusion Time and Labor adaptor support
20197686	Add Primary Extract support (Fusion adaptor only)	Added Primary Extract support (Fusion adaptor only)

   E-Business Suite

Bug Number	Issue	Resolution
18871091	DELETE_FLG <> 'Y' missing on the Time and Labor Reported fact staging load causes a Unique Index failure when Soft Delete has been enabled on HR Workforce.	Added an additional predicate to the existing filter.
19564198	E-Business Suite Time Cards (API generated) where not being loaded into the Warehouse (due to a filter on HXC_TIME_ATTRIBUTE_ USAGES.TIME_BUILDING _BLOCKOVN = 1).	Corrected an incorrect filtering condition and handled duplicates.

Bug Number	Issue	Resolution
19677544	SDE_ORA_DomainGeneral_FlexfieldValueSet.W_DOMAIN_MEMBER_GS task failure	Set the Variable FLEX_VALUE_SET_SKIP_COLUMN_LIST Override check-box, and value to, '__UNASSIGNED__','__NOT_APPLICABLE__','EXP_TYPE_ID_CHAR','OVRD_APPRV_ID_CHAR', 'PO_HEADER_ID_CHAR','PO_LINE_ID_CHAR','PO_PRICE_TYPE','PROJECT_ID_CHAR','TASK_ID_CHAR'
20047622	Customer dataset didn't have ORGANIZATION_ID stored correctly for the Worker's Time Card attributes HXC_TIME_ATTRIBUTES.ATTRIBUTE_CATEGORY = 'SECURITY' in ATTRIBUTE1.	Updated the Mainline code to always take the value from the Workforce Persisted Staging table instead, which we already join to.
20203994	Issue of superfluous rows from W_TLB_ENTRY_TYPE_D	Removed superfluous rows from W_TLB_ENTRY_TYPE_D (which were causing customer confusion with unmapped domains).

PeopleSoft

Bug Number	Issue	Resolution
18006981	Including certain Source domain names (on W_TLB_ENTRY_TYPE_D) in Answers reports caused the report to show no data found.	Added missing Reserved domain members (Not Applicable, Error) and added new domain member tasks (reusing an existing task SDE_PSFT_91_ADAPTOR_SDE_PSFT_DOMAINGENERAL_TIMECARD_TRC) but passing in a different DOMAIN_CODE as the Scenario Variable.

Bug Number	Issue	Resolution
18320298	On PeopleSoft, records can exist on PS_TL_CALENDAR for the same PERIOD_ID which overlap. This can result in two rows being returned when looking up the period relevant to the Time Card entry.	Used a MAX() aggregate function around any attributes pulled off the W_PSFT_TLB_CALENDAR _PS table to avoid the creation of duplicate fact staging rows.
19049793	The UOM_CODE -> W_UOM_CODE domain was not working as intended - it should have been 'Extensible' - customer should be able to map TRC~TRC UOM on site, e.g. U~MHR	Obsolete the existing Domain, 'TIMECARD_TRC_TYPE_CODE~UOM_CODE' and replaced with new Domain, TIMECARD_TRC_TYPE_CODE~TIMECARD_TRC_UOM_CODE'
19612320	Delete events on the source table PS_TL_PAYABLE_TIME (caused by the PeopleSoft Time Administration processing) are not identified by the incremental ETL processing, causing duplicates in the W_TLB_PRCSD_F and reports based off it.	Added a new Update task to set the soft-delete (DELETE_FLG) to 'Y' when a given PS_TL_PAYABLE_TIME [EMPLID , EMPL_RCD , DUR] is re-loaded into the data warehouse persisted staging table W_PSFT_TLB_PAYABLE_TIME_PS (i.e. with a new SEQ_NBR).
19865279	Potential for duplicate index violation from PSXLATITEM date effective records being loaded into W_TLB_ENTRY_STATUS_DS.	Added a MAX(EFFDT) filter to the temporarily (blue) Interface.
20033426	When a Soft Delete (setting DELETE_FLG = 'Y') occurred on the Workforce object(s) leverage by Time and Labor ETL a duplicate index failure can occur because of a missing filter for those cases.	Added an additional join predicate to filter out DELETE_FLG <> 'Y'.

4. New attributes and dimensions:

   - Time Entry Consumer Configuration Set (Fusion only)
   - HCM Group (Fusion only)

Workforce, Workforce Gains/Losses (Generic) and Workforce Frozen Snapshots

Following are the upgrade changes:

1. New attributes and dimensions support in RPD:
   - Added enterprise and fiscal calendar support for workforce fact in RPD and exposed in Workforce Deployment subject area
   - Recruitment source Dimension is now with Workforce Deployment Subject area
2. Data model changes in ODI:
   - `W_WRKFC_EVT_F`

     `RCRTMNT_SOURCE_WID` (Recruitment Source Dimension is supported)
   - `W_WRKFC_EVT_MONTH_F`

     `RCRTMNT_SOURCE_WID` (Recruitment Source Dimension is supported)
3. Issues and bug fixes covered:

   E-Business Suite

Bug Number	Issue	Resolution
20344516	Impacted column: W_EMPLOYMENT_D.W_WORKER_SUBTYPE_CODE Could not able to map the source domain WORKER_TYPE_SYSTEM~WORKER_TYPE_USER to the target domain, due to the issue of the values coming in the reverse order	This impacts the integration_id of data in the W_DOMIAN_MEMBER_G for the domain_code 'WORKER_TYPE_SYSTEM~WORKER_TYPE_USER' So after fixing the issue delete the old domain values and reload from the source, follow the steps given in Post-Apply.

   PeopleSoft

Bug Number	Issue	Resolution
20353001	Issue with Head count and FTE on termination date)	Fixed the issue with EVENT_JOIN_DT in W_PSFT_WEVT_JOB_PS
18815465	Impacted columns are W_PSFT_WEVT_JOB_PS.EVENT_JOIN_DT and W_WRKFC_EVT_F.EVENT_JOIN_DT Incomplete supervisor hierarchy, filters results in dashboards	Employees shouldn't report to themselves. Added check in JOB PS extract to null out supervisor/reports to if it matches employee Id/ Position number

Succession Planning

This is a new subject area in this release.

1. New tables (Facts and Dimensions) in this subject area:

   Facts:

   - W_SCCN_CANDIDATE_F
   - W_SCCN_CND_ACTIVE_F
   - W_SCCN_CND_INCMBNT_F
   - W_SCCN_PLAN_ACTIVE_F
   - W_SCCN_PLAN_F
   - W_SCCN_PLAN_PERSON_F

   Dimensions:

   - W_SCCN_CANDIDATE_D
   - W_SCCN_PLAN_OWNER_D
   - W_SCCN_PLAN_D
   - W_SCCN_READY_BAND_D
   - W_SCCN_DEPART_BAND_D

2. New Subject area in the presentation layer: Human Resources - Succession Planning
3. New security Duty role for the subject area access: Succession Planning Analysis Duty (BIA_HCM_SUCC_PLNING_ANALYSIS_DUTY)

HR Shared/Common Dimensions

Following are the upgrade changes:

1. Issues and bug fixes covered:

Bug Number	Issue	Resolution
20001599	Some date-tracked VOs do not have any healthchecks for duplicates/overlaps	Created Health check queries HCM-231, HCM-232, HCM-233, HCM-234, HCM-235, HCM-236, HCM-237 for following Fusion VO: HcmTopModelAnalyticsGlobalAM.PersonAM.PersonDetailsPVO HcmTopModelAnalyticsGlobalAM.PersonAM.PersonDisabilityPVO HcmTopModelAnalyticsGlobalAM.PersonAM.PersonNamePVO HcmTopModelAnalyticsGlobalAM.PersonAM.VisaPermitPVO HcmTopModelAnalyticsGlobalAM.PositionAM.PositionLegislativePVO HcmTopModelAnalyticsGlobalAM.PositionAM.PositionPVO HcmTopModelAnalyticsGlobalAM.PositionAM.PositionTranslationPVO
21340697	Customer has reported Workforce fact records with HR_PERSON_LEG_WID's which do not exist on W_HR_PERSON_LEG_D which are leading to inconsistencies on dashboards.	Included the second dataset DS2, which brings in Future dated employees.
21151972	Including necessary steps to support DFF Flex in Fusion for: W_JOB_D W_HR_ASSIGNMENT_D W_HR_PERSON_D W_HR_PERSON_LEG_D W_HR_POSITION_D W_PAY_GRADE_D	Made required modification to support flexfields for above area.

Workforce Gains/Losses and Supervisor

Following are the upgrade changes:

1. Issues and bug fixes covered:

Bug Number	Issue	Resolution
21457156	Incremental performance of supervisor tasks was found to be very poor on a customer instance.	In SDE_FUSION_AssignmentSupervisorDimension_EventQueue.W_SUPERVISOR_EQ_TMP_SQ_W_FSN_WEVT_EQ_TMP.TAB0 Dataset: CHGS changed, SUP.W_UPDATE_DT>=TO_DATE_VAR('#LOAD_DT') to SUP.W_UPDATE_DT>=TO_DATE_VAR('#BIAPPS.CURRENT_DATE')
19286092	Including Top level Assignment ID does not render data.Hierarchy itself renders data but not when included with Top level Assignment ID.	Incorrect joins fixed as follows: Old: "Oracle Data Warehouse"."Catalog"."dbo"."Dim_W_HR_ASSIGNMENT_D_SUPH_0"."ROW_WID" = "Oracle Data Warehouse"."Catalog"."dbo"."Dim_W_SUPERVISOR_RH"."SUB_HR_PERSON_WID" New: “Oracle Data Warehouse"."Catalog"."dbo"."Dim_W_HR_ASSIGNMENT_D_SUPH_0"."ROW_WID" = "Oracle Data Warehouse"."Catalog"."dbo"."Dim_W_SUPERVISOR_RH"."SUB_HR_ASSIGNMENT_WID"

Procurement and Spend

This section lists the upgrade changes after 11.1.1.9.2 to 11.1.110.1 upgrade.

Purchase Requisition

Following are the upgrade changes:

1. Tables truncated and reloaded:
   - W_PURCH_RQSTN_LINE_F (only if any release of PSFT or JDE is used as a source adaptor)
   - W_RQSTN_LINE_COST_F (only if any release of PSFT or JDE is used as a source adaptor)
2. Tables with records updated:

   Fusion9 (On Premises)

- W_PURCH_RQSTN_LINE_F: FULFILLMENT_STATUS_WID

EBS (any release)

- W_PURCH_RQSTN_LINE_F: FULFILLMENT_STATUS_WID, FULFILLED_ON_DT, FULFILLED_ON_DT_WID
- W_RQSTN_LINE_COST_F: FULFILLED_ON_DT_WID

3. New features introduced:

FUSION9 (On Premises)

- Modified **Requisition Fulfillment Status** to support the purchase process for consigned inventory item.

EBS (any release)

- Modified **Requisition Fulfillment Status** and **Requisition Fulfillment Date** to support the purchase process for consigned inventory item.

4. Issues and bug fixes covered:

- PSFT (any release)

  Bug 20217859: Fixed to have W_RQSTN_LINE_COST_FS.LINE_AMT populated from the amount value of Requisition Distribution Table

  Bug 21387777: Fixed to remove the possibility to filter out some requisition lines, which have inactive vendor location, when loading W_PURCH_RQSTN_LINE_F.

- JDE (only if MSSQL is used for JDE DB, any JDE release)

  Bug 20178756: Fixed to remove the possibility of causing duplicate records and unresolved dim WIDs in W_PURCH_RQSTN_LINE_F and W_RQSTN_LINE_COST_F, when MSSQL is used for JDE DB.

Purchase Agreement

Following are the upgrade changes:

1. Tables with records updated:

Fusion9 (On Premises)

- W_PURCH_AGREEMENT_LINE_F: CONSIGNED_AGRMNT_LINE_FLG

2. Tables with data model changes:

- New column added in W_PURCH_AGREEMENT_LINE_F: CONSIGNED_AGRMNT_LINE_FLG (used for only FUSION adaptors)

3. Dimension Attributes calculated differently (RPD calculation-wise) or added newly

Presentation level:

- Consigned Agreement Line Flag: located under "Procurement and Spend - Purchase Agreement"."Agreement Details".

4. New features introduced:

FUSION9 (On Premises)

- Introduced "Consigned Agreement Line Flag" to indicate if an agreement was created as a part of the purchase process for consigned inventory item.

Purchase Order

Following are the upgrade changes:

1. Tables with records added:
   - W_XACT_TYPE_D (records with W_XACT_CODE='PO_CONSIGNED_TYPE' only if any release of FUSION is used as a source adaptor)
   - W_DOMAIN_MEMBER_G (records with DOMAIN_CODE='PO_CONSIGNED_TYPE', or 'W_XACT_TYPE_PO_CONSIGNED ')
   - W_DOMAIN_MEMBER_MAP_G (records with SRC_DOMAIN_CODE='PO_CONSIGNED_TYPE')
2. Tables with records updated:

   Fusion9 (On Premises):
   - W_PURCH_SCHEDULE_LINE_F: CONSIGNED_TYPE_WID
   - W_PURCH_COST_FS: CONSIGNED_TYPE_WID

   EBS (any release):
   - W_PURCH_SCHEDULE_LINE_F: FULFILLED_ON_DT
   - W_PURCH_COST_FS: FULFILLED_ON_DT
3. Dimension Attributes calculated differently (RPD calculation-wise) or added newly:

   Logical level:
   - "Dim - Purchase Order Consigned Type"." Source Id"
   - "Dim - Purchase Order Consigned Type"." Source PO Consigned Transaction Type Description"
   - "Dim - Purchase Order Consigned Type"." PO Consigned Transaction Type Desc"
4. New features introduced:

   FUSION9 (On Premises):
   - Modified "Consigned Type" dimension to support the purchase process for consigned inventory item.

   EBS (On Premises):
   - Modified "Fulfilled Date" to populate the closed date for receipt to "Fulfilled Date" for Consignment Order Schedule

Purchase Receipt

Following are the upgrade changes:

1. Tables with records updated:

   Fusion9 (On Premises) :

   - W_PURCH_RCPT_F: CONSIGNED_TYPE_WID

2. New features introduced:

   Fusion9 (On Premises):

   - Modified FK column to "Consigned Type" dimension to support the purchase process for consigned inventory item. But, 'Consigned Type' dimension is not exposed to Presentation Layer for Receipt subject area, so there is no feature change in OOTB(out of the box) setting.

Employee Expense

Following are the upgrade changes:

1. Tables truncated and reloaded:

   - W_EXPENSE_F (only if any release of EBS or PSFT is used as a source adaptor)
   - W_EXPENSE_CC_F (only if any release of EBS or PSFT is used as a source adaptor)
   - W_EXPENSE_VIOLATION_F (only if any release of PSFT is used as a source adaptor)

2. Issues and bug fixes covered:

   EBS (any release):

   - Bug 20045515: Fixed the issue that RQSTN_AMT and PREPAYMENT_AMT of W_EXPENSE_F are 100 times bigger than the actual amount. (applicable to only EBS R12 and above release).
   - Bug 19903729: Modified EXPENSE_INVOICE_POSTED_DT of W_EXPENSE_F to have the correct expense payment date.
   - Bug 20540645: Fixed to remove the possibility of marking DELETE_FLG='Y' for records which were loaded in the previous load, but not updated in this load, if a customer enabled Soft Delete feature using Soft Delete Preprocess.
   - Bug 20345879: Fixed EXPENSE_STATUS_ID/WID columns of W_EXPENSE_F to make expense status 'CANCELLED' when the corresponding invoice is cancelled.
   - Bug 21092558: Fixed ETL calculation logic for document currency, ledger currency, exchange rate, and any amount columns of W_EXPENSE_F and W_EXPENSE_CC_F, so that ultimately all amount metrics of Employee Expense and Employee Expense Credit Card subject areas shows correct values in correct currency code.

   PSFT (any release):

- Bug 21356472: Fixed the wrong ETL logic for INTEGRATION_ID of W_EXPENSE_F, W_EXPENSE_CC_F, and W_EXPENSE_VIOLATION_F.
- Bug 21419177: Fixed INTEGRATION_ID of W_EXPENSE_CC_F_PE to add missing ITEM_SEQ_NBR, so that it prevents W_EXPENSE_CC_F records from being marked with DELETE_FLAG =Y , if a customer enabled Soft Delete feature using Soft Delete Preprocess.
- Bug 21438832: Fixed to remove CDC filter in Expense Violation Primary ODI mapping, so that it prevents W_EXPENSE_VIOLATION_F records from being marked with DELETE_FLAG =Y , if a customer enabled Soft Delete feature using Soft Delete Preprocess.
- Bug 21439668: Fixed the wrong target table of Expense Violation Primary ODI mapping, so that it prevents W_EXPENSE_F and W_EXPENSE_VIOLATION_F records from being marked with DELETE_FLAG =Y table, if a customer enabled Soft Delete feature using Soft Delete Preprocess.
- Bug 21316779: Fixed to handle spaces in PSFT business unit column when populating INTEGRATION_ID of W_EXPENSE_F_PE, so that it prevents W_EXPENSE_F records from being marked with DELETE_FLAG =Y, if a customer enabled Soft Delete feature using Soft Delete Preprocess.

Projects

This section lists the upgrade changes after 11.1.1.9.2 to 11.1.1.10.1 upgrade.

Project Dimension

Following are the upgrade changes:

1. Tables with records updated:
   - W_PROJECT_D (CREATED_BY_WID and CHANGED_BY_WID)
2. Issues and bug fixes covered:

   Fusion (any version):

   - Bug 19154750: Applied UPPER() function to CREATED_BY_ID and CHANGED_BY_ID in SDE map so that the IDs are resoled properly against W_USER_D.

Financial Resource Dimension

Following are the upgrade changes:

1. Tables with records updated:
   - W_DOMAIN_MEMBER_G (DOMAIN_MEMBER_CODE WHERE DOMAIN_CODE = ' PROJECT_RESOURCE_TYPE')
   - W_FINANCIAL_RESOUCE_D (RESOURCE_TYPE_CODE)
2. Issues and bugs covered:

   EBS (any version):

- Bug 20577194: ' PROJECT_RESOURCE_TYPE' domain code is sourced from two different tables. This can potentially cause duplicates in the target. Prefix to DOMAIN_MEMBER_CODES are added to resolve duplicates issue.

Manufacturing

This section lists the upgrade changes after 11.1.1.9.2 to 11.1.1.10.1 upgrade.

Purchase Requisition

Following are the changes:

1. Tables truncated and reloaded:
   - `W_MFG_PLANNED_PRODUCTION_F`
   - `W_MFG_MATERIAL_USAGE_F`
   - `W_MFG_OPERATION_DETAIL_F`
   - `W_PRC_SPEC_D_TL`
   - `W_MFG_JOB_DAILY_SNP_F`
   - `W_LOT_GENEALOGY_F`
2. Tables with records updated:
   - `W_MFG_PLANNED_PRODUCTION_F.INVENTORY_ORG_WID`
3. Tables with data model changes:
   - Introduced W_LOT_GENEALOGY_F.QUERY_SET column

     This design change was adopted for the performance improvement:

     – The 1st dataset will have Level-1 (parent / finished good) and Level-2 information (pertaining to QUERY_SET=1). Hence all the level 1 and level-2 columns are populated in the fact stage and fact tables.

     – The 2nd dataset will capture 2 levels of genealogy at a time from Level-2 onwards (pertaining to QUERY_SET=2). Hence all the level 2 and level-3 columns are populated in the fact stage and fact tables.

     – All the remaining columns from Level-4 to Level-9 are blank / not populated.
4. Metrics calculated differently (RPD calculation-wise) or added newly:

   For Lot genealogy : Till 11.1.1.9.2 release, the subject area used to have Level 1 to Level-9 and End Level presentation tables (altogether 10 presentation tables). As per 11.1.1.10.1 design, There are 4 presentation tables (Level-1 to Level-3 and End Level). Level-1 provides the finished good information. Level-2 and Level 3 provide the issued material and sub-assembly items. Level-2 and Level-3 recursively calls each other till the end level comes.
5. New features introduced:

   Lot Genealogy was supporting only 9 levels but now it can support N levels.
6. Issues and bug fixes covered:

- Bug 20436870: Unique key error on W_MFG_PLANNED_PRODUCTION_F INTEGRATION_ID (For ASCP)

  For ASCP, INTEGRATION_ID to be unique in the system, it should also contain PROJECT_ID since it is based on both Project and Manufacturing. Hence, PROJECT_ID was added in the formation of Integration ID.

- Bug 20013966 - W_MFG_PLANNED_PRODUCTION_F.INVENTORY_ORG_WID is collected as 0's

  The INVENTORY_ORG_WID column gets populated as 0 when COST_ORG_WID=0 due to the incorrect join condition used for the dimension W_INT_ORG_D in the temporary interface SIL_MfgPlannedProductionFact.W_MFG_PLANNED_PRODUCTION_F_SQ_W_MFG_PLANNED_PRODUCTION_FS which is corrected now.

- Bug 20118610 - Duplicate records in W_PRC_SPEC_D_TL

  The step Refresh "IS_INCREMENTAL" was not set as first step in the package SIL_ProcessQualitySpecificationDimension_Translate hence every time all the records were sent for insert instead of insert/update. Hence, the step "IS_INCREMENTAL" has been made the first step in the package SIL_ProcessQualitySpecificationDimension_Translate.

- Bug 19787261 - Unique Constraint Error - W_MFG_JOB_DAILY_SNP_F

  The error was due to duplicates in W_MFG_JOB_DAILY_SNP_F caused by different transaction UOM Codes for the combination of indexed columns. To resolve the issue, add XACT_UOM_CODE to the primary index of W_MFG_JOB_DAILY_SNP_F.

- Bug 19787228 - Unique Constraint Error - W_MFG_OPERATION_DETAIL_F

- The error was due to duplicates in W_MFG_OPERATION_DETAIL_F caused by multiple records in GME_MATERIAL_DETAILS table where for the same BATCH_ID, OPERATION_SEQ_NUMBER and INVENTORY_ITEM_ID, multiple WO_CREATION_DATE , CREATED_ON_DATE, CREATED_BY, CHANGED_ON_DATE and LAST_UPDATED_BY values were coming. To resolve the issue, WO_CREATION_DATE was mapped from GME_BATCH_HEADER instead of GME_MATERIAL_DETAILS and other audit columns was not included under group by clause.

- Bug 19787240- Unique Constraint Error - W_MFG_MATERIAL_USAGE_F

  The error was due to duplicates in W_MFG_MATERIAL_USAGE_F caused by multiple records in GME_MATERIAL_DETAILS table where for the same BATCH_ID, OPERATION_SEQ_NUMBER and INVENTORY_ITEM_ID, multiple WO_CREATION_DATE , CREATED_ON_DATE, CREATED_BY, CHANGED_ON_DATE and LAST_UPDATED_BY values were coming. To resolve the issue, WO_CREATION_DATE was mapped from GME_BATCH_HEADER instead of GME_MATERIAL_DETAILS and other audit columns was not included under group by clause.

- Bug 18638291 - Lot Genealogy Report to be changed

  Two reports have been created for Lot Genealogy after deleting the existing Lot Genealogy Details reports:

- The 1st report will show the genealogy from finished good (Level-1) to the Level-2. Conditional Action link will be used on L2 Lot Number based on "PO Header ID is null" condition.
- The 2nd report will recursively call itself to show 2 levels of genealogy at a time in a report. Conditional Action link will be used on L3 Lot Number based on PO Header ID is null condition.
- Sub-assembly item joins happen using Inventory Org Name, Lot Number and Product Number between the 2 reports.

Student Information Analytics

This section lists the upgrade changes after 11.1.1.9.2 to 11.1.1.10.1 upgrade.

Admissions and Recruiting (AR)

Following are the upgrade changes:

1. Tables truncated or records deleted:
   - W_SIA_TRANS_CREDIT_F
   - W_SIA_ADM_APPL_A
   - W_SIA_EXT_ACAD_SUMM_A
   - W_SIA_EXT_TESTSCORE_A
   - W_SIA_TRANS_CREDIT_A
2. New columns included in base fact:

   W_SIA_ADM_APPL_A
   - SEQUENCE_NBR
   - SIA_SNAPSHOT_DATE

   W_SIA_TRANS_CREDIT_F
   - TRF_CRED_TYPE_ID
   - ACAD_PLAN_WID
   - ACAD_PROG_WID
   - INCL_GPA_FLG
   - MDL_STAT_WID
   - TRF_GPA
   - TRF_GRD_POINTS
   - TRF_PASS_GPA
   - TRF_PASS_NOGPA
   - TRF_TAKEN_GPA
   - TRF_TAKEN_NOGPA

- TRNS_LVL_WID
- UNIT_TAKEN
- UNIT_TRNSFR

W_SIA_TRANS_CREDIT_A

- TRF_CRED_TYPE_ID
- ACAD_PLAN_WID
- ACAD_PROG_WID
- INCL_GPA_FLG
- MDL_STAT_WID
- TRF_GPA
- TRF_GRD_POINTS
- TRF_PASS_GPA
- TRF_PASS_NOGPA
- TRF_TAKEN_GPA
- TRF_TAKEN_NOGPA
- TRNS_LVL_WID
- UNIT_TAKEN
- UNIT_TRNSFR
- W_INSERT_DT
- W_UPDATE_DT

3. Tables with records added:

   - W_SIA_ADM_FUNNEL_F

4. Affected tables and columns:

Table Name	Upgrage Mode	Column Names
W_SIA_ADM_APPL_A	Truncate	NA
W_SIA_EXT_ACAD_SUMM_A	Truncate	NA
W_SIA_EXT_TESTSCORE_A	Truncate	NA
W_SIA_TRANS_CREDIT_A	Reload	NA
W_SIA_RECRTR_D	Update	RECRUITER_NAME
W_SIA_RECRTR_REG_D	Update	REGION_CS_WID

W_SIA_ADM_APPL_F	Update	ENROLL_CNT
W_SIA_ADM_APPL_STAT_F	Update	CREATED_ON_DT
W_SIA_ADM_FUNNEL_F	UpdateInsert/Update/ Soft Delete	CREATED_ON_DTAll
W_SIA_EXT_TESTSCORE_F	Soft DeleteUpdate	DELETE_FLGCREATED_ON_DT
W_SIA_STDNT_RESP_F	Update	REASON_CNTRESPONSE_CNTCREATED_ON_DT
W_SIA_TRANS_CREDIT_F	Reload	All

5. Metrics calculated differently:

Subject Area	Presentation Table	Presentation Column
SIA - Admissions and Recruiting - Admission Application	Expected Graduation Term	Source Graduation Term
	Fact - Admission Application	Admit Count
		Enroll Count
	Sub Plan Term	Source SubPlanTerm
SIA - Admissions and Recruiting - Admission Application Snapshot	Expected Graduation Term	Source Graduation Term
	Fact - Admission Application Snapshot	Admit Count
		Applicant Count
		Application Count
		Enroll Count
	Sub Plan Term	Source SubPlanTerm

SIA - Admissions and Recruiting - Admissions Funnel	Academic Program Applicant	Source Applicant Academic Program
	Academic Program Prospect	Source Prospect Academic Program
	Academic Term Applicant	Applicant Source Academic Term
	Academic Term Prospect	Prospect Source Academic Term
	Admit Type Applicant	Source Applicant Admit Type
	Admit Type Prospect	Source Prospect Admit Type
	Campus Applicant	Source Applicant Campus
	Campus Prospect	Source Prospect Campus
	Fact - Admission Funnel	Admit Count
		Admit to Confirm Yield
		Admit to Enrollment Yield
		Applicant Count
		Applicant to Admit Yield
		Confirm Count
		Confirm to Enrollment Yield
		Enrollment Count
		Prospect Count
		Prospect to Applicant Yield
		Prospect to Enrollment Yield

SIA - Admissions and Recruiting - Application Evaluation	Evaluation Code	Source Evaluation
	Evaluation Status	Source Evaluation Status
	Rating Component	Source Rating Component
SIA - Admissions and Recruiting - Application Status	Expected Graduation Term	Source Graduation Term
SIA - Admissions and Recruiting - External Academic Summary	External Term	Source External Term
	GPA Type	Source GPA Type
SIA - Admissions and Recruiting - External Academic Summary Snapshot	External Term	Source External Term
	GPA Type	Source GPA Type
SIA - Admissions and Recruiting - External Test Scores	Document Details	Row Count
	External Test Component	External Test Component
	Fact - External Test Scores	% Chg Year Ago Average Score
		% Chg Year Ago Minimum Score
		Chg Year Ago Average Score
		Chg Year Ago Minimum Score
SIA - Admissions and Recruiting - External Test Scores Snapshot	Document Details	Row Count
	External Test Component	External Test Component
SIA - Admissions and Recruiting - Student Recruiting	Fact - Student Recruiting	Applicant Count

6. New attributes:

Subject Area	Presentation Table	Presentation Column

SIA - Admissions and Recruiting - Admission Application	Fact - Admission Application	% Chg Year Ago Confirm Count
		Chg Year Ago Confirm Count
		Confirm Count
		Year Ago Confirm Count
SIA - Admissions and Recruiting - Admission Application Snapshot	Fact - Admission Application Snapshot	Confirm Count
SIA - Admissions and Recruiting - Admissions Funnel	Last School Attended	External Organization State Code
SIA - Admissions and Recruiting - External Academic Summary	External Academic Level	Source External Academic Level
SIA - Admissions and Recruiting - External Academic Summary Snapshot	External Academic Level	Source External Academic Level
SIA - Admissions and Recruiting - External Test Scores	External Academic Level	Source External Academic Level
	External Test Component	External Test Code
SIA - Admissions and Recruiting - External Test Scores Snapshot	External Academic Level	Source External Academic Level
	External Test Component	External Test Code

SIA - Admissions and Recruiting - Transfer Credit Snapshot	Document Details	Inclusion GPA Flag
		Transfer Credit Source
		Transfer Credit Type Id
		Unit Taken
		Unit Transfer
	Fact - Transfer Credit Snapshot	Transfer GPA
		Transfer Grade Points
		Transfer Pass GPA
		Transfer Pass NOGPA
		Transfer Taken GPA
		Transfer Taken NOGPA

7. Data model changes:

- W_SIA_RECRTR_REG_DS

Seq#	Column Name	Data Type (length, precisions)	Change Type(Existing/New /Obsolete)
4	REGION	VARCHAR2(40)	Existing

- W_SIA_ADM_APPL_A

Seq#	Column Name	Data Type (length, precisions)	Change Type(Existing/New /Obsolete)
75	SEQUENCE_NBR	NUMBER(10)	New
76	SIA_SNAPSHOT_ DATE	DATE	New

- W_SIA_TRANS_CREDIT_F

Seq#	Column Name	Data Type (length, precisions)	Change Type(Existing/New/ Obsolete)
67	TRF_CRED_TYPE_ID	VARCHAR2(10,0)	New
68	ACAD_PLAN_WID	NUMBER(10,0)	New
69	ACAD_PROG_WID	NUMBER(10,0)	New
70	INCL_GPA_FLG	VARCHAR2(1,0)	New
71	MDL_STAT_WID	NUMBER(10,0)	New
72	TRF_GPA	NUMBER(10,3)	New
73	TRF_GRD_POINTS	NUMBER(10,3)	New
74	TRF_PASS_GPA	NUMBER(10,3)	New
75	TRF_PASS_NOGPA	NUMBER(10,3)	New
76	TRF_TAKEN_GPA	NUMBER(10,3)	New
77	TRF_TAKEN_NOGPA	NUMBER(10,3)	New
78	TRNS_LVL_WID	NUMBER(10,0)	New
79	UNIT_TAKEN	NUMBER(10,3)	New
80	UNIT_TRNSFR	NUMBER(10,3)	New
55	CREATED_BY_WID	NUMBER(10,0)	Existing
56	CHANGED_BY_WID	NUMBER(10,0)	Existing
6	CRSE_ACAD_PROG_WID	NUMBER(10,0)	Obsolete
7	CRSE_ACAD_PLAN_WID	NUMBER(10,0)	Obsolete
15	CRSE_TRNS_LVL_WID	NUMBER(10,0)	Obsolete
16	CRSE_MDL_STAT_WID	NUMBER(10,0)	Obsolete
17	CRSE_UNIT_TAKEN	NUMBER(10,3)	Obsolete
18	CRSE_UNIT_TRNSFR	NUMBER(10,3)	Obsolete

Seq#	Column Name	Data Type (length, precisions)	Change Type(Existing/New/ Obsolete)
19	CRSE_TRF_TAKEN_GPA	NUMBER(10,3)	Obsolete
20	CRSE_TRF_TAKEN_NOGPA	NUMBER(10,3)	Obsolete
21	CRSE_TRF_PASS_GPA	NUMBER(10,3)	Obsolete
22	CRSE_TRF_PASS_NOGPA	NUMBER(10,3)	Obsolete
23	CRSE_TRF_GRD_POINTS	NUMBER(10,3)	Obsolete
24	CRSE_TRF_GPA	NUMBER(10,3)	Obsolete
25	CRSE_INCL_GPA_FLG	VARCHAR2(1,0)	Obsolete
26	TST_MDL_STAT_WID	NUMBER(10,0)	Obsolete
27	TST_ACAD_PROG_WID	NUMBER(10,0)	Obsolete
28	TST_ACAD_PLAN_WID	NUMBER(10,0)	Obsolete
29	TST_TRNS_LVL_WID	NUMBER(10,0)	Obsolete
30	TST_UNIT_TRNSFR	NUMBER(10,3)	Obsolete
31	TST_TRF_TAKEN_GPA	NUMBER(10,3)	Obsolete
32	TST_TRF_TKN_NOGPA	NUMBER(10,3)	Obsolete
33	TST_TRF_PASS_GPA	NUMBER(10,3)	Obsolete
34	TST_TRF_PASS_NOGPA	NUMBER(10,3)	Obsolete
35	TST_TRF_GRD_POINTS	NUMBER(10,3)	Obsolete
36	TST_TRF_GPA	NUMBER(10,3)	Obsolete
37	TST_INCL_GPA_FLG	VARCHAR2(1,0)	Obsolete

Seq#	Column Name	Data Type (length, precisions)	Change Type(Existing/New/ Obsolete)
38	OTHR_ACAD_PROG_WID	NUMBER(10,0)	Obsolete
39	OTHR_ACAD_PLAN_WID	NUMBER(10,0)	Obsolete
40	OTHR_MDL_STAT_WID	NUMBER(10,0)	Obsolete
41	OTHR_TRNS_LVL_WID	NUMBER(10,0)	Obsolete
42	OTHR_UNIT_TRNSFR	NUMBER(10,0)	Obsolete
43	OTHR_TRF_PASS_GPA	NUMBER(10,0)	Obsolete
44	OTHR_TRF_PASS_NOGPA	NUMBER(10,0)	Obsolete
45	OTHR_TRF_TAKEN_GPA	NUMBER(10,0)	Obsolete
46	OTHR_TRF_TAKEN_NOGPA	NUMBER(10,0)	Obsolete
47	OTHR_TRF_GRD_POINT	NUMBER(10,0)	Obsolete
48	OTHR_TRF_GPA	NUMBER(10,0)	Obsolete
49	OTHR_INCL_GPA_FLG	VARCHAR2(1,0)	Obsolete

- W_SIA_TRANS_CREDIT_A

Seq#	Column Name	Data Type (length, precisions)	Change Type(Existing/New/ Obsolete)
66	TRF_CRED_TYPE_ID	VARCHAR2(10,0)	New
67	ACAD_PLAN_WID	NUMBER(10,0)	New
68	ACAD_PROG_WID	NUMBER(10,0)	New
69	INCL_GPA_FLG	VARCHAR2(1,0)	New
70	MDL_STAT_WID	NUMBER(10,0)	New
71	TRF_GPA	NUMBER(10,3)	New

Seq#	Column Name	Data Type (length, precisions)	Change Type(Existing/New/ Obsolete)
72	TRF_GRD_POINTS	NUMBER(10,3)	New
73	TRF_PASS_GPA	NUMBER(10,3)	New
74	TRF_PASS_NOGPA	NUMBER(10,3)	New
75	TRF_TAKEN_GPA	NUMBER(10,3)	New
76	TRF_TAKEN_NOGPA	NUMBER(10,3)	New
77	TRNS_LVL_WID	NUMBER(10,0)	New
78	UNIT_TAKEN	NUMBER(10,3)	New
79	UNIT_TRNSFR	NUMBER(10,3)	New
80	W_INSERT_DT	DATE	New
81	W_UPDATE_DT	DATE	New
56	CREATED_BY_WID	NUMBER(10,0)	Existing
57	CHANGED_BY_WID	NUMBER(10,0)	Existing
7	CRSE_ACAD_PROG_WID	NUMBER(10,0)	Obsolete
8	CRSE_ACAD_PLAN_WID	NUMBER(10,0)	Obsolete
16	CRSE_TRNS_LVL_WID	NUMBER(10,0)	Obsolete
17	CRSE_MDL_STAT_WID	NUMBER(10,0)	Obsolete
18	CRSE_UNIT_TAKEN	NUMBER(10,3)	Obsolete
19	CRSE_UNIT_TRNSFR	NUMBER(10,3)	Obsolete
20	CRSE_TRF_TAKEN_GPA	NUMBER(10,3)	Obsolete
21	CRSE_TRF_TAKEN_NOGPA	NUMBER(10,3)	Obsolete
22	CRSE_TRF_PASS_GPA	NUMBER(10,3)	Obsolete

Seq#	Column Name	Data Type (length, precisions)	Change Type(Existing/New/ Obsolete)
23	CRSE_TRF_PASS_NOGPA	NUMBER(10,3)	Obsolete
24	CRSE_TRF_GRD_POINTS	NUMBER(10,3)	Obsolete
25	CRSE_TRF_GPA	NUMBER(10,3)	Obsolete
26	CRSE_INCL_GPA_FLG	VARCHAR2(1,0)	Obsolete
27	TST_MDL_STAT_WID	NUMBER(10,0)	Obsolete
28	TST_ACAD_PROG_WID	NUMBER(10,0)	Obsolete
29	TST_ACAD_PLAN_WID	NUMBER(10,0)	Obsolete
30	TST_TRNS_LVL_WID	NUMBER(10,0)	Obsolete
31	TST_UNIT_TRNSFR	NUMBER(10,3)	Obsolete
32	TST_TRF_TAKEN_GPA	NUMBER(10,3)	Obsolete
33	TST_TRF_TKN_NOGPA	NUMBER(10,3)	Obsolete
34	TST_TRF_PASS_GPA	NUMBER(10,3)	Obsolete
35	TST_TRF_PASS_NOGPA	NUMBER(10,3)	Obsolete
36	TST_TRF_GRD_POINTS	NUMBER(10,3)	Obsolete
37	TST_TRF_GPA	NUMBER(10,3)	Obsolete
38	TST_INCL_GPA_FLG	VARCHAR2(1,0)	Obsolete
39	OTHR_ACAD_PROG_WID	NUMBER(10,0)	Obsolete
40	OTHR_ACAD_PLAN_WID	NUMBER(10,0)	Obsolete
41	OTHR_MDL_STAT_WID	NUMBER(10,0)	Obsolete

Seq#	Column Name	Data Type (length, precisions)	Change Type(Existing/New/ Obsolete)
42	OTHR_TRNS_LVL_ WID	NUMBER(10,0)	Obsolete
43	OTHR_UNIT_TRNS FR	NUMBER(10,0)	Obsolete
44	OTHR_TRF_PASS_G PA	NUMBER(10,0)	Obsolete
45	OTHR_TRF_PASS_ NOGPA	NUMBER(10,0)	Obsolete
46	OTHR_TRF_TAKEN _GPA	NUMBER(10,0)	Obsolete
47	OTHR_TRF_TAKEN _NOGPA	NUMBER(10,0)	Obsolete
48	OTHR_TRF_GRD_P OINT	NUMBER(10,0)	Obsolete
49	OTHR_TRF_GPA	NUMBER(10,0)	Obsolete
50	OTHR_INCL_GPA_ FLG	VARCHAR2(1,0)	Obsolete

Student Records (SR)

Following are the upgrade changes:

1. Tables truncated or records deleted:
   - W_SIA_INST_SUMM_A
2. New columns included in base fact:
   - W_SIA_ACAD_PROG_DTL_F ACAD_CAR_WID
3. Tables with records added:
   - W_SIA_SCHOLAR_ATTR_D
   - W_SIA_SCHOLAR_RSDNCY_D
4. Affected tables and columns:

Table Name	Upgrage Mode	Column Names
W_SIA_INST_SUM M_A	Reload	All

W_SIA_SCHOLAR_ATTR_D	Soft Delete and Insert	All
W_SIA_SCHOLAR_RSDNCY_D	Insert/Update	All
W_SIA_STDNT_DEG_PLN_D	Update	HONORS_PREFIXHONORS_SUFFIX
W_SIA_STDNT_DEG_SPLN_D	Update	HONORS_PREFIXHONORS_SUFFIX
W_SIA_TERM_D	Update	ACAD_YEAR
W_SIA_ACAD_PROG_DTL_F	Update	ACAD_CAR_WID
W_SIA_CLASS_ENRLMT_F	Update	TERM_ACTVN_DT_WID
W_SIA_ENRL_REQ_F	Update	CREATED_ON_DT
W_SIA_TERM_ENRLMT_F	Update	ACAD_ORG_WIDRETURNING_FLG

5. Metrics calculated differently:

Subject Area	Presentation Table	Presentation Column
SIA - Student Records - Academic Plan Summary	Fact - Academic Plan Summary	Degree GPA Points
	Academic Subplan	Source Academic Subplan Code
		Source Academic Subplan
	Term Expected Graduation Term	Source Expected Graduation Term
SIA - Student Records - Academic Program Details	Term Expected Graduation Term	Source Expected Graduation Term
SIA - Student Records - Class Enrollment	Fact - Class Enrollment	Average GPA
	Scholar	Sport
SIA - Student Records - Class Instructor	Instructor	Country
		Gender
		Marital Status
		Military Status

SIA - Student Records - Class Meeting Pattern	Instructor	Country
		Gender
		Marital Status
		Military Status
SIA - Student Records - Enrollment Requests	Instructor	Country
		Gender
		Marital Status
		Military Status
SIA - Student Records - Term Enrollments	Fact - Term Enrollment	Cumulative Grade Point Average
		Current Grade Point Average
		Grade Points
	Scholar	Sport
	Scholar Residency	Source Residency

6. New attributes:

Subject Area	Presentation Table	Presentation Column
SIA - Student Records - Academic Class	Course Administrator	Active Flag
		Course Admin First Name
		Course Admin ID
		Course Admin Last Name
		Course Admin Name
	Primary Instructor	Country Code
		Ethnic Group
		Marital Status Code
		Military Status Code

SIA - Student Records - Academic Program Details	Academic Career	Academic Career
		Academic Career Code
		Academic Career Term Type Code
		Active Flag
		Source Academic Career
		Source Academic Career Code
SIA - Student Records - Class Enrollment	Academic Level Start Term	Active Flag
	Primary Instructor	Country Code
		Ethnic Group
		Marital Status Code
		Military Status Code
SIA - Student Records - Class Instructor	Instructor	Country Code
		Ethnic Group
		Marital Status Code
		Military Status Code
SIA - Student Records - Class Meeting Pattern	Instructor	Country Code
		Ethnic Group
		Marital Status Code
		Military Status Code
SIA - Student Records - Enrollment Requests	Instructor	Country Code
		Ethnic Group
		Marital Status Code
		Military Status Code

SIA - Student Records - Term Enrollments	Academic Career	Academic Career Term Type Code
	Billing Career	Billing Career Term Type Code
	Fact - Term Enrollment	FA Unit Taken Grade Point Average
	Withdraw Reason	Withdraw Reason Code
		Withdraw Reason Description

7. Data model changes:

- W_SIA_TERM_D

Seq#	Column Name	Data Type (length, precisions)	Change Type(Existing/New/ Obsolete)
7	ACAD_YR	VARCHAR2(15)	Existing

- W_SIA_RECRTR_EXT_DS

Seq#	Column Name	Data Type (length, precisions)	Change Type(Existing/New/ Obsolete)
6	REGION	VARCHAR2(40)	Existing

- W_SIA_RECRTR_REG_DS

Seq#	Column Name	Data Type (length, precisions)	Change Type(Existing/New/ Obsolete)
4	REGION	VARCHAR2(40)	Existing

- W_SIA_STDNT_DEG_PLN_DS

Seq#	Column Name	Data Type (length, precisions)	Change Type(Existing/New/ Obsolete)
8	HONORS_PREFIX	VARCHAR2(20)	Existing
9	HONORS_SUFFIX	VARCHAR2(20)	Existing

- W_SIA_STDNT_DEG_SPLN_DS

Seq#	Column Name	Data Type (length, precisions)	Change Type(Existing/New/ Obsolete)
5	HONORS_PREFIX	VARCHAR2(20)	Existing

Seq#	Column Name	Data Type (length, precisions)	Change Type(Existing/New/ Obsolete)
6	HONORS_SUFFIX	VARCHAR2(20)	Existing

- W_SIA_STDNT_DEG_PLN_D

Seq#	Column Name	Data Type (length, precisions)	Change Type(Existing/New/ Obsolete)
9	HONORS_PREFIX	VARCHAR2(20)	Existing
10	HONORS_SUFFIX	VARCHAR2(20)	Existing

- W_SIA_STDNT_DEG_SPLN_D

Seq#	Column Name	Data Type (length, precisions)	Change Type(Existing/New/ Obsolete)
6	HONORS_PREFIX	VARCHAR2(20)	Existing
7	HONORS_SUFFIX	VARCHAR2(20)	Existing

- W_SIA_ACAD_PROG_DTL_FS

Seq#	Column Name	Data Type (length, precisions)	Change Type(Existing/New/ Obsolete)
38	ACAD_CAR_ID	VARCHAR2(80)	New

- W_SIA_ACAD_PROG_DTL_F

Seq#	Column Name	Data Type (length, precisions)	Change Type(Existing/New/ Obsolete)
39	ACAD_CAR_WID	NUMBER(10)	New

Student Financials (SF)

Following are the upgrade changes:

1. Affected tables and columns:

Table Name	Upgrage Mode	Column Names
W_SIA_CREDIT_HIST_F	Update	BILL_CAR_WID
W_SIA_SF_PAYMENT_F	Update	ACAD_CAR_WIDACAD_PROG_WIDSESSION_CODE_WIDSELF_SRVC_FLGTENDER_CTGRY

W_SIA_SF_TRAN_DTL_F	Update	CONTRACT_WIDGLOBAL1_EXCHANGE_RATEGLOBAL2_EXCHANGE_RATEGLOBAL3_EXCHANGE_RATE
W_SIA_SF_TRAN_F	Update	GLOBAL1_EXCHANGE_RATEGLOBAL2_EXCHANGE_RATEGLOBAL3_EXCHANGE_RATE

2. Metrics calculated differently:

Subject Area	Presentation Table	Presentation Column
SIA - Student Financials - Billing Summary	Time - Due Date	Month
SIA - Student Financials - Credit History	Aging Category	Summary Category Description
SIA - Student Financials - Payment Details	Time - Encumbered Date	Month
	Time - Posted Date	Month
SIA - Student Financials - Transaction Details	Fact - SIA Transaction Detail	Line Amount
	Time - Actual Billing Date	Month
	Time - Billing Date	Month
	Time - Class Price Date	Month
	Time - Dispute Date	Month
	Time - Encumbered Date	Month
	Time - GL Posting Date	Month
	Time - Posted Date	Month
	Time - Transaction Due Date	Month

SIA - Student Financials - Transactions	Time - Actual Billing Date	Month
	Time - Billing Date	Month
	Time - Transaction Due Date	Month
	Time - Transaction Paid Date	Day Name
		Month

3. New attributes:

Subject Area	Presentation Table	Presentation Column
SIA - Student Financials - Transaction Details	Fee Code	Source Fee Code
	Item Term	Active Flag
		Item Term Source Code
		Item Term Source Description
	Time - Aging Date	Date
		Day Name
		Month
		Quarter
		Year
SIA - Student Financials - Transactions	Fee Code	Source Fee Code

4. Data model changes:

- W_SIA_SF_PAYMENT_FS

Seq#	Column Name	Data Type (length, precisions)	Change Type(Existing/New/ Obsolete)
17	SESSION_CODE	VARCHAR2(25)	Existing

- W_SIA_SF_TRAN_DTL_FS

Seq#	Column Name	Data Type (length, precisions)	Change Type(Existing/New/ Obsolete)
47	CONTRACT_ NUM	VARCHAR2(50)	Existing

- W_SIA_SF_TRAN_DTL_F

Seq#	Column Name	Data Type (length, precisions)	Change Type(Existing/New/ Obsolete)
80	GLOBAL1_EXCH ANGE_RATE	NUMBER(38,10)	Existing
81	GLOBAL2_EXCH ANGE_RATE	NUMBER(38,10)	Existing
82	GLOBAL3_EXCH ANGE_RATE	NUMBER(38,10)	Existing

Financial Aid (FA)

Following are the upgrade changes:

1. Metrics calculated differently:

Subject Area	Presentation Table	Presentation Column
SIA - Financial Aid - Award Disbursement	Fact - Award Disbursement	Accepted Amount as a % of Offered Amount
		Authorized Amount as a % of Accepted Amount
		Disbursed Amount as a % of Authorized Amount
	Student Aid Attribute	Source Packaging Plan
	Time - Term Begin Date	Month
SIA - Financial Aid - Award Summary Snapshot	Student Aid Attribute	Source Packaging Plan

Supply Chain Management

This section lists the upgrade changes after 11.1.1.9.2 to 11.1.1.10.1 for Supply Chain and Costing.

New content and Enhancements

Following are upgrade changes:

1. Starting this release, Presentation Subject Area "Costing - Item Cost" is enabled over Peoplesoft Data Source.
2. Inventory – Bill of Materials Presentation Subject Area has a new metric namely "On Hand Qty – Sub Assembly". This Subject Area (and hence the new metric) continues to be functional over EBS and JDE Data Sources.
3. An ETL performance enhancement of "Inventory – Bill of Materials" Subject Area has been introduced. As a result, the BOM Explosion (ETL) routine can be configured to execute in multiple and configurable number of parallel threads. Please refer to *Oracle BI Applications Configuration Guide* for more details.

Order Management

Two new Oracle BI Applications Configuration Manager (BIACM) are available in release 9.1:

- OMBOOKINGFG_ENABLED
- OMCUSTSTATHISTFG_ENABLED

These are complex PLP FG's & By default, these two have been set to 'N' in the BIACM. If you have a requirement to populate these FG, then you can set these parameters to 'Y' in BIACM before the full load.

Note: One of the OOTB report (At Risk Customers) from OMCUSTSTATHIST FG, renders No Results because of the default value of the parameter OMCUSTSTATHISTFG_ENABLED = 'N' due to which the corresponding Fact table has no data loaded.