Contents

Preface ................................................................................................................................................................. v
Audience ............................................................................................................................................................. v
Related Documents............................................................................................................................................... v
Conventions.......................................................................................................................................................... v

1 Upgrade Process – Overview and Prerequisites

Overview of Upgrade Process .............................................................................................................................. 1-1
Upgrade Prerequisites......................................................................................................................................... 1-2
Upgrading Oracle BI Enterprise Edition From 11.1.1.7.0 to 11.1.1.9.0......................................................... 1-2
Upgrading Oracle Data Integrator From 11.1.1.7.0 To 11.1.1.9.0................................................................. 1-18

2 Oracle BI Applications Infrastructure, Metadata, and Schema Updates

Downloading BI Applications 11.1.1.10.1 Software and Files........................................................................ 2-1
Upgrading BI Applications Binaries to Release 11.1.1.10.1 ........................................................................ 2-1
Deploying External Storage .............................................................................................................................. 2-4
Applying Fusion Middleware Platform Patches for BI Applications 11.1.1.10.1 ........................................... 2-5
Upgrading BIACOMP Schema ......................................................................................................................... 2-6
Upgrading Deployment Changes ....................................................................................................................... 2-8
Upgrading the JAZN File .................................................................................................................................. 2-9
Upgrading the RPD ........................................................................................................................................... 2-9
Upgrading the Presentation Catalog ............................................................................................................... 2-10
Upgrading the ODI Repository ........................................................................................................................ 2-11
Creating a Backup of the 11.1.1.9.2 ODI Repository .................................................................................... 2-11
Exporting Content from the 11.1.1.9.2 ODI Repository .................................................................................... 2-12
Noting the ID of the 11.1.1.9.2 ODI Repository .............................................................................................. 2-19
Dropping the 11.1.1.9.2 ODI Repository Schema .......................................................................................... 2-20
Creating the ODI Repository for BI Applications 11.1.1.10.1 ................................................................. 2-21
Importing Content into the 11.1.1.10.1 ODI Repository ................................................................................. 2-25
Importing View Object to Physical and Logical Layers .................................................................................. 2-35
Creating Shared and Log Folders ..................................................................................................................... 2-37
Upgrading Fusion V1 Adaptor ODI Artifacts to Use Fusion 9 Adaptor ............................................................ 2-38
Reconfiguring External Authentication ........................................................................................................... 2-41
Regenerating Load Plans ................................................................................................................. 2-43
Importing and Applying ETL Customizations .................................................................................. 2-43
Importing Datastores ....................................................................................................................... 2-44
Importing Customized ETL tasks ..................................................................................................... 2-49

3 Business Analytics Warehouse Schema and Data Upgrades
Performing Pre-Upgrade Tasks ............................................................................................................. 3-1
Granting New Required Privileges to <prefix>_DW ............................................................................ 3-1
Upgrade Business Analytics Warehouse Schema and Data .............................................................. 3-1
Performing Post-Upgrade Tasks ........................................................................................................... 3-7

A New ETL Content in Oracle BI Applications 11.1.1.10.1
Common Dimensions ............................................................................................................................. A-1
Customer relationship management (CRM) ......................................................................................... A-2
Enterprise Asset Management (EAM) ................................................................................................. A-5
Financials ........................................................................................................................................... A-6
Human Resources ............................................................................................................................... A-14
Procurement and Spend .................................................................................................................... A-21
Projects ............................................................................................................................................. A-25
Manufacturing ...................................................................................................................................... A-26
Student Information Analytics ......................................................................................................... A-28
Supply Chain Management ............................................................................................................... A-48
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.

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

**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 Middleware patches 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 11g - 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:
[aimel@slc01aym Disk1]$ ./runInstaller -jreLoc $ORACLE_HOME/jdk -invPtrLoc $ORACLE_HOME/oraInst.loc where ORACLE_HOME = BI_ORACLE_HOME
Upgrade Prerequisites

Upgrade Process – Overview and Prerequisites
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>

```bash
[aime1@slc0laym bin]$ pwd
/scratch/aime1/work/mw6047/Oracle_BI1/bin
[aime1@slc0laym bin]$ ./psa
```
Upgrade Prerequisites

Upgrade Process – Overview and Prerequisites 1-9
Upgrade Prerequisites
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.
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:

   ```bash
   [aime1@slc01aym Disk1]$ ./runInstaller -jreLoc $ORACLE_HOME/jdk -invPtrLoc $ORACLE_HOME/oraInst.loc
   ```
5. Click Yes and then Next.
Upgrade Prerequisites

1-22  Upgrade Guide
Upgrade Prerequisites

Upgrade Process – Overview and Prerequisites 1-23
6. Start the Node Manager, Administration Server, and other managed servers.
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
• Upgrading BI Applications Binaries to Version 11.1.1.10.1
• Deploying External Storage
• Applying Fusion Middleware Platform Patches for BI Applications 11.1.1.10.1
• Upgrading BIACOMP Schema
• Upgrading Deployment Changes
• Upgrading JAZN File
• Upgrading RPD
• Upgrading Presentation Catalog
• Upgrading ODI Repository
• Importing and Applying ETL Customizations

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:

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>`

![Image showing Oracle Universal Installer]

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.

![Image showing Inventory Location Confirmation Dialog]

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 BL_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:

```bash
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/bindirectory`.

   c. Specify the following directory paths:
To upgrade the BIACOMP schema:

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 WORKDIR:

   - `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.
1. Take backup of BIACOMP schema

2. Log in to the database as sys.

3. Run the following SQL query:

   ```sql
   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_synonym_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=Middleware home location
$ORACLE_HOME/common/bin/wlst.sh $ORACLE_HOME/dwtools/scripts/
SetupBIAppsDWDDataSource.py --DOMAIN_HOME_PATH $MW_HOME/user_projects/domains/
bifoundation_domain --BIAPPS_DW_DB_JDBCURL
db: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/biaappspatch.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/biaappspatch.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:


   Example:


   For example: The password is prompted after the process is started.

---

### 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:


   Example: `...`
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:

```
/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:
welcome
```

Optional Parameters:

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


5. It is recommended to update GUIDS in OBIEE.
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 dropdown 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 database 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 11.1.1.10.2. 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.

![Image of ODI Studio with Renumber option highlighted.]

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

![Image of Renumbering the repository – Step 1 dialog with Yes button highlighted.]

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.

![Image of Master Repository](image1)

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.

![Image of Work Repository](image2)
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_BIAPPSS11G**

- **DW_BIAPPSS11G_LOG_FILES**

- **DW_BIAPPSS11G_SHARED_FILES**
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 dropdown 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 dropdown 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.

![Image of Importing popup](image)

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. 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_Upgrade_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_BII/biapps/admin/provisioning/update
/bin/ksh UpgradePLV.ksh /scratch/kdinaman/work/mw3607/Oracle_BII Administrator1 Admin12345 205 FUSION_9_0

---

Upgrading the ODI Repository
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/patc.

Example:

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

```
```

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 Upgrade 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

<table>
<thead>
<tr>
<th>Steps to Import Customizations</th>
</tr>
</thead>
<tbody>
<tr>
<td>DEV</td>
</tr>
<tr>
<td>Customizations Imported using Regular Export/Import Pre-Upgrade Dev Repo</td>
</tr>
<tr>
<td>• Export Custom Folders</td>
</tr>
<tr>
<td>• Export Custom Datastores</td>
</tr>
<tr>
<td>Post-Upgrade Dev Repo</td>
</tr>
<tr>
<td>• Version Model</td>
</tr>
<tr>
<td>• Version Model again</td>
</tr>
<tr>
<td>• Import Custom Datastores</td>
</tr>
<tr>
<td>• Import Custom Folders</td>
</tr>
<tr>
<td>• Reapply Customizations</td>
</tr>
<tr>
<td>• Generate Custom Scenarios</td>
</tr>
<tr>
<td>• Apply Customizations to Generated Load Plan</td>
</tr>
<tr>
<td>DEV to TEST/PROD</td>
</tr>
<tr>
<td>Customizations Migrated using Smart Export/Import Post-Upgrade Dev Repo</td>
</tr>
<tr>
<td>• Smart Export of Custom Folders</td>
</tr>
<tr>
<td>Test/Prod Repo</td>
</tr>
<tr>
<td>• Smart Import of Custom Folders</td>
</tr>
</tbody>
</table>

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.
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
• Granting New Required Privileges to <prefix>_DW
• Upgrading Business Analytics Warehouse Schema and Data
• Performing Post-Upgrade Tasks

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

**Topics**

- Common Dimensions
- Customer Relationship Management
- Enterprise Asset Management
- Financials
- Human Resources
- Procurement and Spend
- Projects
- Manufacturing
- Student Information Analytics
- Supply Chain Management

**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
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 **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_PARTNERRESOURCE_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_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**
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**
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 11.1.1.10.1 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_OPERATIONRESOURCE` 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:

<table>
<thead>
<tr>
<th>Seq#</th>
<th>Column Name</th>
<th>Data Type (length, precisions)</th>
<th>Change Type(Existing/New/Obsolete)</th>
</tr>
</thead>
<tbody>
<tr>
<td>145</td>
<td>GL_JOURNAL_DT</td>
<td>DATE(7)</td>
<td>New</td>
</tr>
<tr>
<td>246</td>
<td>JOURNAL_LINE_REFERENCE</td>
<td>VARCHAR2(30)</td>
<td>New</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Seq#</th>
<th>Column Name</th>
<th>Data Type (length, precisions)</th>
<th>Change Type(Existing/New/Obsolete)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>TRG_LEDGER_ID</td>
<td>VARCHAR2(80)</td>
<td>New</td>
</tr>
<tr>
<td>2</td>
<td>ROW_WID</td>
<td>NUMBER(10)</td>
<td>New</td>
</tr>
<tr>
<td>3</td>
<td>W_INSERT_DT</td>
<td>DATE</td>
<td>New</td>
</tr>
<tr>
<td>4</td>
<td>W_UPDATE_DT</td>
<td>DATE</td>
<td>New</td>
</tr>
<tr>
<td>5</td>
<td>DATASOURCE_NUM_ID</td>
<td>NUMBER(10)</td>
<td>New</td>
</tr>
<tr>
<td>Seq#</td>
<td>Column Name</td>
<td>Data Type (length, precisions)</td>
<td>Change Type (Existing/New/Obsolete)</td>
</tr>
<tr>
<td>------</td>
<td>-----------------</td>
<td>---------------------------------</td>
<td>-----------------------------------</td>
</tr>
<tr>
<td>6</td>
<td>ETL_PROC_WID</td>
<td>NUMBER(10)</td>
<td>New</td>
</tr>
<tr>
<td>7</td>
<td>INTEGRATION_ID</td>
<td>VARCHAR2(80)</td>
<td>New</td>
</tr>
<tr>
<td>8</td>
<td>TENANT_ID</td>
<td>VARCHAR2(80)</td>
<td>New</td>
</tr>
<tr>
<td>9</td>
<td>X_CUSTOM</td>
<td>VARCHAR2(10)</td>
<td>New</td>
</tr>
</tbody>
</table>

**W_GL_ACCOUNT_MAP_G**

<table>
<thead>
<tr>
<th>Seq#</th>
<th>Column Name</th>
<th>Data Type (length, precisions)</th>
<th>Change Type (Existing/New/Obsolete)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>TRG_INTEGRATION_ID</td>
<td>VARCHAR2(240)</td>
<td>New</td>
</tr>
<tr>
<td>3</td>
<td>ROW_WID</td>
<td>NUMBER(10)</td>
<td>New</td>
</tr>
<tr>
<td>4</td>
<td>W_INSERT_DT</td>
<td>DATE</td>
<td>New</td>
</tr>
<tr>
<td>5</td>
<td>W_UPDATE_DT</td>
<td>DATE</td>
<td>New</td>
</tr>
<tr>
<td>6</td>
<td>SRC_EFF_FROM_DT</td>
<td>DATE</td>
<td>New</td>
</tr>
<tr>
<td>7</td>
<td>SRC_EFF_TO_DT</td>
<td>DATE</td>
<td>New</td>
</tr>
<tr>
<td>8</td>
<td>DATASOURCE_NUM_ID</td>
<td>NUMBER(10)</td>
<td>New</td>
</tr>
<tr>
<td>9</td>
<td>INTEGRATION_ID</td>
<td>VARCHAR2(80)</td>
<td>New</td>
</tr>
<tr>
<td>10</td>
<td>TENANT_ID</td>
<td>VARCHAR2(80)</td>
<td>New</td>
</tr>
<tr>
<td>11</td>
<td>X_CUSTOM</td>
<td>VARCHAR2(10)</td>
<td>New</td>
</tr>
<tr>
<td>12</td>
<td>ETL_PROC_WID</td>
<td>NUMBER(10)</td>
<td>New</td>
</tr>
</tbody>
</table>

**W_MCAL_PERIOD_MAP_G**

<table>
<thead>
<tr>
<th>Seq#</th>
<th>Column Name</th>
<th>Data Type (length, precisions)</th>
<th>Change Type (Existing/New/Obsolete)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>TRG_MCAL_PERIOD_ID</td>
<td>VARCHAR2(80)</td>
<td>New</td>
</tr>
<tr>
<td>2</td>
<td>ROW_WID</td>
<td>NUMBER(10)</td>
<td>New</td>
</tr>
<tr>
<td>3</td>
<td>W_INSERT_DT</td>
<td>DATE</td>
<td>New</td>
</tr>
<tr>
<td>4</td>
<td>W_UPDATE_DT</td>
<td>DATE</td>
<td>New</td>
</tr>
</tbody>
</table>
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:

<table>
<thead>
<tr>
<th>Enhancement/Bug</th>
<th>Impacted warehouse object</th>
<th>Impacted adapters</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bug 18510561 REL10 - RFA - AP TRANSACTION STATUS SHOWS AS <strong>ERROR</strong> IN BI APPS 11.1.1.7.1</td>
<td>W_STATUS_D</td>
<td>EBS 11510, EBS R12xx, Fusion, PSFTxx, JDExx</td>
</tr>
<tr>
<td>Enhancement/Bug</td>
<td>Impacted warehouse object</td>
<td>Impacted adapters</td>
</tr>
<tr>
<td>----------------</td>
<td>---------------------------</td>
<td>-------------------</td>
</tr>
<tr>
<td>Bug 14648685 INCLUDE APPROVAL STATUS IN THE AP STATUS DIMENSION</td>
<td>W_STATUS_D, W_AP_XACT_F</td>
<td>EBS 11510, EBS R12xx, Fusion, PSFTxx, JDExx</td>
</tr>
<tr>
<td>Bug 10648786 ENHANCEMENT: HOW DO WE IDENTIFY AND EXCLUDE UNVALIDATED INVOICES FROM REPORTING</td>
<td>W_STATUS_D, W_AP_XACT_F</td>
<td>EBS R12xx, Fusion</td>
</tr>
<tr>
<td>Bug 16672435 &quot;# PAYMENTS&quot; AND &quot;AP COUNT PAYMENTS WITHOUT INVOICE&quot; EXPRESSION CHANGES</td>
<td>W_AP_XACT_F</td>
<td>EBS 11510, EBS R12xx, Fusion, PSFTxx</td>
</tr>
<tr>
<td>Bug 18545104 THE METRIC &quot;AP PAYMENT COUNT&quot; IS CONSIDERING CANCELLED PAYMENTS</td>
<td>W_AP_XACT_F</td>
<td>EBS 11510, EBS R12xx, Fusion</td>
</tr>
<tr>
<td>To update Approval status wid and Validation status wid to 0 for records other than schedules</td>
<td>W_AP_XACT_F</td>
<td>EBS 11510, EBS R12xx, Fusion, PSFTxx, JDExx</td>
</tr>
<tr>
<td>Bug 20577706 - OTBIE REL10: Some rows have null value for recon_proc_wid in w_ap/ar_xact_f</td>
<td>W_AP_XACT_F</td>
<td>EBS 11510, EBS R12xx, Fusion, PSFTxx, JDExx</td>
</tr>
<tr>
<td>Bug 20652852 - W_AP_HOLDSD_F, HELD_BY_WID and RELEASE_BY_WID will always be 0</td>
<td>W_AP_HOLDSD_F</td>
<td>Fusion</td>
</tr>
<tr>
<td>Bug 20978353 - REL10 - AGING_METHOD_CODE is null in JDE AP</td>
<td>W_AP_AGING_BUCKETS_D</td>
<td>JDExx</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Column Name</th>
<th>Data Type (length, precisions)</th>
<th>Change Type(Existing/New/Obsolete)</th>
</tr>
</thead>
<tbody>
<tr>
<td>APPR_STATUS_ID</td>
<td>VARCHAR2(80)</td>
<td>New</td>
</tr>
<tr>
<td>VALD_STATUS_ID</td>
<td>VARCHAR2(80)</td>
<td>New</td>
</tr>
</tbody>
</table>

W_AP_XACT_F
W_AP_AGING_INVOICE_A
W_AP_AGING_INVOICE_ENT_A

<table>
<thead>
<tr>
<th>Column Name</th>
<th>Data Type (length, precisions)</th>
<th>Change Type(Existing/New/Obsolete)</th>
</tr>
</thead>
<tbody>
<tr>
<td>APPR_STATUS_ID</td>
<td>NUMBER(10)</td>
<td>New</td>
</tr>
<tr>
<td>VALD_STATUS_ID</td>
<td>NUMBER(10)</td>
<td>New</td>
</tr>
</tbody>
</table>

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:

<table>
<thead>
<tr>
<th>Enhancement/Bug</th>
<th>Impacted warehouse object</th>
<th>Impacted adapters</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bug 18510561 REL10-RFA - AP TRANSACTION STATUS SHOWS AS <strong>ERROR</strong> IN BI APPS 11.1.1.7.1</td>
<td>W_STATUS_D</td>
<td>EBS 11510</td>
</tr>
<tr>
<td></td>
<td></td>
<td>EBS R12xx</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Fusion</td>
</tr>
<tr>
<td></td>
<td></td>
<td>PSFTxx</td>
</tr>
<tr>
<td></td>
<td></td>
<td>JDExx</td>
</tr>
<tr>
<td>Bug 17412308 EBS/FUSION: AR PAYMENT AMOUNT TO BE FURTHER CATEGORIZED</td>
<td>W_XACT_TYPE_D</td>
<td>EBS 11510</td>
</tr>
<tr>
<td>Bug 14536773 - PS1-FIN-AR-PSFT90-W_AR_XACT_F.UOM_CO DE NOT LOADED FOR INVOICE ITEMS</td>
<td>W_AR_XACT_F</td>
<td>EBS R12xx</td>
</tr>
<tr>
<td>Bug 20577706 - OTBIE REL10: Some rows have null value for recon_proc_wid in w_ap/ar_xact_f</td>
<td>W_AR_XACT_F</td>
<td>Fusion</td>
</tr>
<tr>
<td>Bug 20516845 - PSFT - RECEIPT_NUM and amount sign are incorrect for PAYMENT type in W_AR_XACT_F</td>
<td>W_AR_XACT_F</td>
<td>PSFTxx</td>
</tr>
</tbody>
</table>
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 | PSFTxx
 | W_DOMAIN_MEMBER_M AP_G |  |
Bug 19802482 - Rel10AR_AGING_METHO D_CODE is displaying Companycode instead of AgingMethodcode | W_AR_AGING_BUCKETS_ | 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:

<table>
<thead>
<tr>
<th>Enhancement/Bug</th>
<th>Impacted warehouse object</th>
<th>Impacted adapters</th>
</tr>
</thead>
</table>
| Bug 20917665 - Special Character in EBS Table Fails SDE_ORA_GLREVENUEF ACT | W_GL_REVN_FS | EBS 11510
 | W_GL_REVN_F | 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>
<thead>
<tr>
<th>Table Name</th>
<th>Column Name</th>
<th>Change</th>
</tr>
</thead>
<tbody>
<tr>
<td>W_GL_REVN_FS</td>
<td>SALES_ORDER_ITEM</td>
<td>Existing column Data Type changed from NUMBER to VARCHAR2(30)</td>
</tr>
<tr>
<td>W_GL_REVN_F</td>
<td>SALES_ORDER_ITEM</td>
<td>Existing column Data Type changed from NUMBER to VARCHAR2(30)</td>
</tr>
</tbody>
</table>
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:

<table>
<thead>
<tr>
<th>Bug Number</th>
<th>Issue</th>
<th>Resolution</th>
</tr>
</thead>
<tbody>
<tr>
<td>19665088 - RCRTMT: Job Requisition Open since(days) has negative values for Drafted Reqs</td>
<td>RQSTN_OPEN_TO_EVNT_DAYS is showing negative for Requisition Draft events</td>
<td>When Event Date is earlier to Requisition Open Date, RQSTN_OPEN_TO_EVNT_DAYS should be null.</td>
</tr>
<tr>
<td>19835082 - RCRTMT:EBS::ASMT_END_DT when prior application termination happens</td>
<td>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.</td>
<td>The ASMT_END_DT calculation is modified to pick Application Termination Date only if it happens after Assessment Start Date.</td>
</tr>
<tr>
<td>19672983 - RCRTMT: Requisition Closed date should be latest in case Reqs filled twice</td>
<td>Enhancement: The requirement is to use latest close date.</td>
<td>Closed date in Job Requisition Accumulated Snapshot is calculated using earliest close date.</td>
</tr>
<tr>
<td>19770055 - RQSTN Closed Date High Date when no requisition</td>
<td>For Unspecified row in W_JOB_RQSTN_ACC_SNAPSHOT_F, RQSTN_CLOSED_DT is having high date.</td>
<td>RQSTN_CLOSED_DT set to Null for unspecified row.</td>
</tr>
</tbody>
</table>

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
2. New columns included in base fact:
   - $\text{W\_TLB\_PRCSD\_FS/F}$

3. Issues and bug fixes covered:
   - **Silos**

<table>
<thead>
<tr>
<th>Bug Number</th>
<th>Issue Description</th>
<th>Resolution</th>
</tr>
</thead>
<tbody>
<tr>
<td>21347039</td>
<td>$\text{W_TLB_AGE_BAND_D}, \text{CREATED_BY_WID}$ and $\text{CHANGED_BY_WID}$ were NULL</td>
<td>$\text{W_TLB_AGE_BAND_D, CREATED_BY_WID}$ and $\text{CHANGED_BY_WID}$ set to 0, there is no source for those.</td>
</tr>
</tbody>
</table>

   - **Fusion**

<table>
<thead>
<tr>
<th>Bug Number</th>
<th>Issue Description</th>
<th>Resolution</th>
</tr>
</thead>
<tbody>
<tr>
<td>17749933</td>
<td>Add Fusion Time and Labor adaptor support</td>
<td>Added Fusion Time and Labor adaptor support</td>
</tr>
<tr>
<td>20197686</td>
<td>Add Primary Extract support (Fusion adaptor only)</td>
<td>Added Primary Extract support (Fusion adaptor only)</td>
</tr>
</tbody>
</table>

   - **E-Business Suite**

<table>
<thead>
<tr>
<th>Bug Number</th>
<th>Issue Description</th>
<th>Resolution</th>
</tr>
</thead>
<tbody>
<tr>
<td>18871091</td>
<td>$\text{DELETE_FLG} &lt;&gt; 'Y'$ missing on the Time and Labor Reported fact staging load causes a Unique Index failure when Soft Delete has been enabled on HR Workforce.</td>
<td>Added an additional predicate to the existing filter.</td>
</tr>
<tr>
<td>19564198</td>
<td>E-Business Suite Time Cards (API generated) where not being loaded into the Warehouse (due to a filter on $\text{HXC_TIME_ATTRIBUTE_USAGES_TIME_BUILDING_BLOCKOVN} = 1$).</td>
<td>Corrected an incorrect filtering condition and handled duplicates.</td>
</tr>
<tr>
<td>Bug Number</td>
<td>Issue</td>
<td>Resolution</td>
</tr>
<tr>
<td>-------------</td>
<td>----------------------------------------------------------------------</td>
<td>------------------------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>19677544</td>
<td>SDE_ORA_DomainGeneral_FlexfieldValueSet.W_DO MAIN_MEMBER_GS task failure</td>
<td>Set the Variable FLEX_VALUE_SET_SKIP_COLUMN_LIST Override check-box, and value to, '<strong>UNASSIGNED</strong>', '<strong>NOT_APPLICABLE</strong>', 'EXP_TYPE_ID_CHAR', 'OVRD_APPR_ID_CHAR', 'PO_HEADER_ID_CHAR', 'PO_LINE_ID_CHAR', 'PO_PRICE_TYPE', 'PROJECT_ID_CHAR', 'TASK_ID_CHAR'</td>
</tr>
<tr>
<td>20047622</td>
<td>Customer dataset didn’t have ORGANIZATION_ID stored correctly for the Worker’s Time Card attributes HXC_TIME_ATTRIBUTES. ATTRIBUTE_CATEGORY = 'SECURITY' in ATTRIBUTE1.</td>
<td>Updated the Mainline code to always take the value from the Workforce Persisted Staging table instead, which we already join to.</td>
</tr>
<tr>
<td>20203994</td>
<td>Issue of superfluous rows from W_TLB_ENTRY_TYPE_D</td>
<td>Removed superfluous rows from W_TLB_ENTRY_TYPE_D (which were causing customer confusion with unmapped domains).</td>
</tr>
</tbody>
</table>

**PeopleSoft**

<table>
<thead>
<tr>
<th>Bug Number</th>
<th>Issue</th>
<th>Resolution</th>
</tr>
</thead>
<tbody>
<tr>
<td>18006981</td>
<td>Including certain Source domain names (on W_TLB_ENTRY_TYPE_D) in Answers reports caused the report to show no data found.</td>
<td>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.</td>
</tr>
<tr>
<td>Bug Number</td>
<td>Issue</td>
<td>Resolution</td>
</tr>
<tr>
<td>--------------</td>
<td>----------------------------------------------------------------------</td>
<td>-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>18320298</td>
<td>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.</td>
<td>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.</td>
</tr>
<tr>
<td>19049793</td>
<td>The UOM_CODE -&gt; W_UOM_CODE domain was not working as intended - it should have been 'Extensible' - customer should be able to map TRC<del>TRC UOM on site, e.g. U</del>MHR</td>
<td>Obsolete the existing Domain, 'TIMECARD_TRC_TYPE_CODE<del>UOM_CODE' and replaced with new Domain, 'TIMECARD_TRC_TYPE_CODE</del>TIMECARD_TRC_UOM_CODE'</td>
</tr>
<tr>
<td>19612320</td>
<td>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.</td>
<td>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).</td>
</tr>
<tr>
<td>19865279</td>
<td>Potential for duplicate index violation from PSXLATITEM date effective records being loaded into W_TLB.ENTRY.STATUS_DS.</td>
<td>Added a MAX(EFFDT) filter to the temporarily (blue) Interface.</td>
</tr>
<tr>
<td>20033426</td>
<td>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.</td>
<td>Added an additional join predicate to filter out DELETE_FLG &lt;&gt; 'Y'.</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Bug Number</th>
<th>Issue</th>
<th>Resolution</th>
</tr>
</thead>
<tbody>
<tr>
<td>20344516</td>
<td>Impact 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</td>
<td>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.</td>
</tr>
</tbody>
</table>

### PeopleSoft

<table>
<thead>
<tr>
<th>Bug Number</th>
<th>Issue</th>
<th>Resolution</th>
</tr>
</thead>
<tbody>
<tr>
<td>20353001</td>
<td>Issue with Head count and FTE on termination date</td>
<td>Fixed the issue with EVENT_JOIN_DT in W_PSFT_WEVT_JOB_PS. 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</td>
</tr>
<tr>
<td>18815465</td>
<td>Impact 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</td>
<td></td>
</tr>
</tbody>
</table>
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:
<table>
<thead>
<tr>
<th>Bug Number</th>
<th>Issue</th>
<th>Resolution</th>
</tr>
</thead>
<tbody>
<tr>
<td>20001599</td>
<td>Some date-tracked VOs do not have any healthchecks for duplicates/overlaps</td>
<td>Created Health check queries HCM-231, HCM-232, HCM-233, HCM-234, HCM-235, HCM-236, HCM-237 for following Fusion VO: HcmTopModelAnalyticsGlobalAM.PersonAM.Person DetailsPVO HcmTopModelAnalyticsGlobalAM.PersonAM.Person DisabilityPVO HcmTopModelAnalyticsGlobalAM.PersonAM.Person NamePVO HcmTopModelAnalyticsGlobalAM.PersonAM.VisaPer mitPVO HcmTopModelAnalyticsGlobalAM.PositionAM.Position LegislativePVO HcmTopModelAnalyticsGlobalAM.PositionAM.Position pVO HcmTopModelAnalyticsGlobalAM.PositionAM.PositionTranslationPVO</td>
</tr>
<tr>
<td>21340697</td>
<td>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.</td>
<td>Included the second dataset DS2, which brings in Future dated employees.</td>
</tr>
<tr>
<td>21151972</td>
<td>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_PAYGRADE_D</td>
<td>Made required modification to support flexfields for above area.</td>
</tr>
</tbody>
</table>

**Workforce Gains/Losses and Supervisor**

Following are the upgrade changes:

1. Issues and bug fixes covered:
<table>
<thead>
<tr>
<th>Bug Number</th>
<th>Issue</th>
<th>Resolution</th>
</tr>
</thead>
<tbody>
<tr>
<td>21457156</td>
<td>Incremental performance of supervisor tasks was found to be very poor on a customer instance.</td>
<td>In SDE_FUSION_Assignment SupervisorDimension_Even tQueue.W_SUPERVISOR_E Q_TMP_SQ_W_F SN_WEVT_EQ_TMP.TAB0 Dataset: CHGS changed, SUP.W_UPDATE_DT&gt;=TO _DATE_VAR(#LOAD_DT) to SUP.W_UPDATE_DT&gt;=TO _DATE_VAR(#BIAPPS.CURRENT_DATE)</td>
</tr>
<tr>
<td>19286092</td>
<td>Including Top level Assignment ID does not render data. Hierarchy itself renders data but not when included with Top level Assignment ID.</td>
<td>Incorrect joins fixed as follows: Old: &quot;Oracle Data Warehouse&quot;.&quot;Catalog&quot;.&quot;dbo&quot;.&quot;Dim_W_HR_ASSIGNMENT_D_SUPH_0&quot;.&quot;ROW_WID&quot; = &quot;Oracle Data Warehouse&quot;.&quot;Catalog&quot;.&quot;dbo&quot;.&quot;Dim_W_SUPERVISOR_R H&quot;.&quot;SUB_HR_PERSON_WID&quot; New: &quot;Oracle Data Warehouse&quot;.&quot;Catalog&quot;.&quot;dbo&quot;.&quot;Dim_W_HR_ASSIGNMENT_D_SUPH_0&quot;.&quot;ROW_WID&quot; = &quot;Oracle Data Warehouse&quot;.&quot;Catalog&quot;.&quot;dbo&quot;.&quot;Dim_W_SUPERVISOR_R H&quot;.&quot;SUB_HR_ASSIGNMENT_T_WID&quot;</td>
</tr>
</tbody>
</table>

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: CONSIDED_TYPE_WID
   - W_PURCH_COST_FS: CONSIDED_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_RESOURCE_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_GRID_POINTS
     - TRF_PASS_GPA
     - TRF_PASS_NOGPA
     - TRF_TAKEN_GPA
     - TRF_TAKEN_NOGPA

A-28 Upgrade Guide
- 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>
<thead>
<tr>
<th>Table Name</th>
<th>Upgrage Mode</th>
<th>Column Names</th>
</tr>
</thead>
<tbody>
<tr>
<td>W_SIA_ADM_APPL_A</td>
<td>Truncate</td>
<td>NA</td>
</tr>
<tr>
<td>W_SIA_EXT_ACAD_SUMM_A</td>
<td>Truncate</td>
<td>NA</td>
</tr>
<tr>
<td>W_SIA_EXT_TESTSCORE_A</td>
<td>Truncate</td>
<td>NA</td>
</tr>
<tr>
<td>W_SIA_TRANS_CREDIT_A</td>
<td>Reload</td>
<td>NA</td>
</tr>
<tr>
<td>W_SIA_RECRTR_D</td>
<td>Update</td>
<td>RECRUITER_NAME</td>
</tr>
<tr>
<td>W_SIA_RECRTR_REG_D</td>
<td>Update</td>
<td>REGION_CS_WID</td>
</tr>
<tr>
<td>Table Name</td>
<td>Action</td>
<td>Column</td>
</tr>
<tr>
<td>----------------------------------</td>
<td>-----------------------</td>
<td>-------------------------</td>
</tr>
<tr>
<td>W_SIA_ADM_APPL_F</td>
<td>Update</td>
<td>ENROLL_CNT</td>
</tr>
<tr>
<td>W_SIA_ADM_APPL_STAT_F</td>
<td>Update</td>
<td>CREATED_ON_DT</td>
</tr>
<tr>
<td>W_SIA_ADM_FUNNEL_F</td>
<td>Update/Insert/Update/Soft Delete</td>
<td>CREATED_ON_DTAll</td>
</tr>
<tr>
<td>W_SIA_EXT_TESTSCORE_F</td>
<td>Soft DeleteUpdate</td>
<td>DELETE_FLGCREATED_ON_DT</td>
</tr>
<tr>
<td>W_SIA_STDNT_RESP_F</td>
<td>Update</td>
<td>REASON_CNTRESPONSE_CNTCREATED_ON_DT</td>
</tr>
<tr>
<td>W_SIA_TRANS_CREDIT_F</td>
<td>Reload</td>
<td>All</td>
</tr>
</tbody>
</table>

5. Metrics calculated differently:

<table>
<thead>
<tr>
<th>Subject Area</th>
<th>Presentation Table</th>
<th>Presentation Column</th>
</tr>
</thead>
<tbody>
<tr>
<td>SIA - Admissions and Recruiting - Admission Application</td>
<td>Expected Graduation Term</td>
<td>Source Graduation Term</td>
</tr>
<tr>
<td></td>
<td>Fact - Admission Application</td>
<td>Admit Count</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Enroll Count</td>
</tr>
<tr>
<td></td>
<td>Sub Plan Term</td>
<td>Source SubPlanTerm</td>
</tr>
<tr>
<td>SIA - Admissions and Recruiting - Admission Application Snapshot</td>
<td>Expected Graduation Term</td>
<td>Source Graduation Term</td>
</tr>
<tr>
<td></td>
<td>Fact - Admission Application Snapshot</td>
<td>Admit Count</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Applicant Count</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Application Count</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Enroll Count</td>
</tr>
<tr>
<td></td>
<td>Sub Plan Term</td>
<td>Source SubPlanTerm</td>
</tr>
<tr>
<td>SIA - Admissions and Recruiting - Admissions Funnel</td>
<td>Academic Program Applicant</td>
<td>Source Applicant Academic Program</td>
</tr>
<tr>
<td>-------------------------------------------------</td>
<td>---------------------------</td>
<td>---------------------------------</td>
</tr>
<tr>
<td></td>
<td>Academic Program Prospect</td>
<td>Source Prospect Academic Program</td>
</tr>
<tr>
<td></td>
<td>Academic Term Applicant</td>
<td>Applicant Source Academic Term</td>
</tr>
<tr>
<td></td>
<td>Academic Term Prospect</td>
<td>Prospect Source Academic Term</td>
</tr>
<tr>
<td></td>
<td>Admit Type Applicant</td>
<td>Source Applicant Admit Type</td>
</tr>
<tr>
<td></td>
<td>Admit Type Prospect</td>
<td>Source Prospect Admit Type</td>
</tr>
<tr>
<td></td>
<td>Campus Applicant</td>
<td>Source Applicant Campus</td>
</tr>
<tr>
<td></td>
<td>Campus Prospect</td>
<td>Source Prospect Campus</td>
</tr>
<tr>
<td>Fact - Admission Funnel</td>
<td>Admit Count</td>
<td>Admit to Confirm Yield</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Admit to Enrollment Yield</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Applicant Count</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Applicant to Admit Yield</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Confirm Count</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Confirm to Enrollment Yield</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Enrollment Count</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Prospect Count</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Prospect to Applicant Yield</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Prospect to Enrollment Yield</td>
</tr>
<tr>
<td>SIA - Admissions and Recruiting - Application Evaluation</td>
<td>Evaluation Code</td>
<td>Source Evaluation</td>
</tr>
<tr>
<td>--------------------------------------------------------</td>
<td>-----------------</td>
<td>-------------------</td>
</tr>
<tr>
<td></td>
<td>Evaluation Status</td>
<td>Source Evaluation Status</td>
</tr>
<tr>
<td></td>
<td>Rating Component</td>
<td>Source Rating Component</td>
</tr>
<tr>
<td>SIA - Admissions and Recruiting - Application Status</td>
<td>Expected Graduation Term</td>
<td>Source Graduation Term</td>
</tr>
<tr>
<td>SIA - Admissions and Recruiting - External Academic Summary</td>
<td>External Term</td>
<td>Source External Term</td>
</tr>
<tr>
<td></td>
<td>GPA Type</td>
<td>Source GPA Type</td>
</tr>
<tr>
<td>SIA - Admissions and Recruiting - External Academic Summary Snapshot</td>
<td>External Term</td>
<td>Source External Term</td>
</tr>
<tr>
<td></td>
<td>GPA Type</td>
<td>Source GPA Type</td>
</tr>
<tr>
<td>SIA - Admissions and Recruiting - External Test Scores</td>
<td>Document Details</td>
<td>Row Count</td>
</tr>
<tr>
<td></td>
<td>External Test Component</td>
<td>External Test Component</td>
</tr>
<tr>
<td></td>
<td>Fact - External Test Scores</td>
<td>% Chg Year Ago Average Score</td>
</tr>
<tr>
<td></td>
<td></td>
<td>% Chg Year Ago Minimum Score</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Chg Year Ago Average Score</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Chg Year Ago Minimum Score</td>
</tr>
<tr>
<td>SIA - Admissions and Recruiting - External Test Scores Snapshot</td>
<td>Document Details</td>
<td>Row Count</td>
</tr>
<tr>
<td></td>
<td>External Test Component</td>
<td>External Test Component</td>
</tr>
<tr>
<td>SIA - Admissions and Recruiting - Student Recruiting</td>
<td>Fact - Student Recruiting</td>
<td>Applicant Count</td>
</tr>
</tbody>
</table>

6. New attributes:

<table>
<thead>
<tr>
<th>Subject Area</th>
<th>Presentation Table</th>
<th>Presentation Column</th>
</tr>
</thead>
<tbody>
<tr>
<td>SIA - Admissions and Recruiting - Admission Application</td>
<td>Fact - Admission Application</td>
<td>% Chg Year Ago Confirm Count</td>
</tr>
<tr>
<td>------------------------------------------------------</td>
<td>-------------------------------</td>
<td>-----------------------------</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Chg Year Ago Confirm Count</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Confirm Count</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Year Ago Confirm Count</td>
</tr>
<tr>
<td>SIA - Admissions and Recruiting - Admission Application Snapshot</td>
<td>Fact - Admission Application Snapshot</td>
<td>Confirm Count</td>
</tr>
<tr>
<td>SIA - Admissions and Recruiting - Admissions Funnel</td>
<td>Last School Attended</td>
<td>External Organization State Code</td>
</tr>
<tr>
<td>SIA - Admissions and Recruiting - External Academic Summary</td>
<td>External Academic Level</td>
<td>Source External Academic Level</td>
</tr>
<tr>
<td>SIA - Admissions and Recruiting - External Academic Summary Snapshot</td>
<td>External Academic Level</td>
<td>Source External Academic Level</td>
</tr>
<tr>
<td>SIA - Admissions and Recruiting - External Test Scores</td>
<td>External Academic Level</td>
<td>Source External Academic Level</td>
</tr>
<tr>
<td></td>
<td>External Test Component</td>
<td>External Test Code</td>
</tr>
<tr>
<td>SIA - Admissions and Recruiting - External Test Scores Snapshot</td>
<td>External Academic Level</td>
<td>Source External Academic Level</td>
</tr>
<tr>
<td></td>
<td>External Test Component</td>
<td>External Test Code</td>
</tr>
</tbody>
</table>
7. Data model changes:

- **W_SIA_RECRTR_REG_DS**

<table>
<thead>
<tr>
<th>Seq#</th>
<th>Column Name</th>
<th>Data Type (length, precisions)</th>
<th>Change Type(Existing/New/Obsolete)</th>
</tr>
</thead>
<tbody>
<tr>
<td>4</td>
<td>REGION</td>
<td>VARCHAR2(40)</td>
<td>Existing</td>
</tr>
</tbody>
</table>

- **W_SIA_ADM_APPL_A**

<table>
<thead>
<tr>
<th>Seq#</th>
<th>Column Name</th>
<th>Data Type (length, precisions)</th>
<th>Change Type(Existing/New/Obsolete)</th>
</tr>
</thead>
<tbody>
<tr>
<td>75</td>
<td>SEQUENCE_NBR</td>
<td>NUMBER(10)</td>
<td>New</td>
</tr>
<tr>
<td>76</td>
<td>SIA_SNAPSHOT_DATE</td>
<td>DATE</td>
<td>New</td>
</tr>
</tbody>
</table>

- **W_SIA_TRANS_CREDIT_F**
<table>
<thead>
<tr>
<th>Seq#</th>
<th>Column Name</th>
<th>Data Type (length, precisions)</th>
<th>Change Type(Existing/New/Obsolete)</th>
</tr>
</thead>
<tbody>
<tr>
<td>67</td>
<td>TRF_CRED_TYPE_ID</td>
<td>VARCHAR2(10,0)</td>
<td>New</td>
</tr>
<tr>
<td>68</td>
<td>ACAD_PLAN_WID</td>
<td>NUMBER(10,0)</td>
<td>New</td>
</tr>
<tr>
<td>69</td>
<td>ACAD_PROG_WID</td>
<td>NUMBER(10,0)</td>
<td>New</td>
</tr>
<tr>
<td>70</td>
<td>INCL_GPA_FLG</td>
<td>VARCHAR2(1,0)</td>
<td>New</td>
</tr>
<tr>
<td>71</td>
<td>MDL_STAT_WID</td>
<td>NUMBER(10,0)</td>
<td>New</td>
</tr>
<tr>
<td>72</td>
<td>TRF_GPA</td>
<td>NUMBER(10,3)</td>
<td>New</td>
</tr>
<tr>
<td>73</td>
<td>TRF_GRD_POINTS</td>
<td>NUMBER(10,3)</td>
<td>New</td>
</tr>
<tr>
<td>74</td>
<td>TRF_PASS_GPA</td>
<td>NUMBER(10,3)</td>
<td>New</td>
</tr>
<tr>
<td>75</td>
<td>TRF_PASS_NOGPA</td>
<td>NUMBER(10,3)</td>
<td>New</td>
</tr>
<tr>
<td>76</td>
<td>TRF_TAKEN_GPA</td>
<td>NUMBER(10,3)</td>
<td>New</td>
</tr>
<tr>
<td>77</td>
<td>TRF_TAKEN_NOGPA</td>
<td>NUMBER(10,3)</td>
<td>New</td>
</tr>
<tr>
<td>78</td>
<td>TRNS_LVL_WID</td>
<td>NUMBER(10,0)</td>
<td>New</td>
</tr>
<tr>
<td>79</td>
<td>UNIT_TAKEN</td>
<td>NUMBER(10,3)</td>
<td>New</td>
</tr>
<tr>
<td>80</td>
<td>UNIT_TRNSFR</td>
<td>NUMBER(10,3)</td>
<td>New</td>
</tr>
<tr>
<td>55</td>
<td>CREATED_BY_WID</td>
<td>NUMBER(10,0)</td>
<td>Existing</td>
</tr>
<tr>
<td>56</td>
<td>CHANGED_BY_WID</td>
<td>NUMBER(10,0)</td>
<td>Existing</td>
</tr>
<tr>
<td>6</td>
<td>CRSE_ACAD_PROG_WID</td>
<td>NUMBER(10,0)</td>
<td>Obsolete</td>
</tr>
<tr>
<td>7</td>
<td>CRSE_ACAD_PLAN_WID</td>
<td>NUMBER(10,0)</td>
<td>Obsolete</td>
</tr>
<tr>
<td>15</td>
<td>CRSE_TRNS_LVL_WID</td>
<td>NUMBER(10,0)</td>
<td>Obsolete</td>
</tr>
<tr>
<td>16</td>
<td>CRSE_MDL_STAT_WID</td>
<td>NUMBER(10,0)</td>
<td>Obsolete</td>
</tr>
<tr>
<td>17</td>
<td>CRSE_UNIT_TAKEN</td>
<td>NUMBER(10,3)</td>
<td>Obsolete</td>
</tr>
<tr>
<td>18</td>
<td>CRSE_UNIT_TRNSFR</td>
<td>NUMBER(10,3)</td>
<td>Obsolete</td>
</tr>
<tr>
<td>Seq#</td>
<td>Column Name</td>
<td>Data Type (length, precisions)</td>
<td>Change Type(Existing/New/Obsolete)</td>
</tr>
<tr>
<td>------</td>
<td>----------------------------------</td>
<td>---------------------------------</td>
<td>-----------------------------------</td>
</tr>
<tr>
<td>19</td>
<td>CRSE_TRF_TAKEN_GPA</td>
<td>NUMBER(10,3)</td>
<td>Obsolete</td>
</tr>
<tr>
<td>20</td>
<td>CRSE_TRF_TAKEN_NOGPA</td>
<td>NUMBER(10,3)</td>
<td>Obsolete</td>
</tr>
<tr>
<td>21</td>
<td>CRSE_TRF_PASS_GPA</td>
<td>NUMBER(10,3)</td>
<td>Obsolete</td>
</tr>
<tr>
<td>22</td>
<td>CRSE_TRF_PASS_NOGPA</td>
<td>NUMBER(10,3)</td>
<td>Obsolete</td>
</tr>
<tr>
<td>23</td>
<td>CRSE_TRF_GRID_POINTS</td>
<td>NUMBER(10,3)</td>
<td>Obsolete</td>
</tr>
<tr>
<td>24</td>
<td>CRSE_TRF_GPA</td>
<td>NUMBER(10,3)</td>
<td>Obsolete</td>
</tr>
<tr>
<td>25</td>
<td>CRSE_INCL_GPA_FLG</td>
<td>VARCHAR2(1,0)</td>
<td>Obsolete</td>
</tr>
<tr>
<td>26</td>
<td>TST_MDL_STAT_WID</td>
<td>NUMBER(10,0)</td>
<td>Obsolete</td>
</tr>
<tr>
<td>27</td>
<td>TST_ACAD_PROG_WID</td>
<td>NUMBER(10,0)</td>
<td>Obsolete</td>
</tr>
<tr>
<td>28</td>
<td>TST_ACAD_PLAN_WID</td>
<td>NUMBER(10,0)</td>
<td>Obsolete</td>
</tr>
<tr>
<td>29</td>
<td>TST_TRNS_LVL_WID</td>
<td>NUMBER(10,0)</td>
<td>Obsolete</td>
</tr>
<tr>
<td>30</td>
<td>TST_UNIT_TRNSFR</td>
<td>NUMBER(10,3)</td>
<td>Obsolete</td>
</tr>
<tr>
<td>31</td>
<td>TST_TRF_TAKEN_GPA</td>
<td>NUMBER(10,3)</td>
<td>Obsolete</td>
</tr>
<tr>
<td>32</td>
<td>TST_TRF_TKN_NOGPA</td>
<td>NUMBER(10,3)</td>
<td>Obsolete</td>
</tr>
<tr>
<td>33</td>
<td>TST_TRF_PASS_GPA</td>
<td>NUMBER(10,3)</td>
<td>Obsolete</td>
</tr>
<tr>
<td>34</td>
<td>TST_TRF_PASS_NOGPA</td>
<td>NUMBER(10,3)</td>
<td>Obsolete</td>
</tr>
<tr>
<td>35</td>
<td>TST_TRF_GRID_POINTS</td>
<td>NUMBER(10,3)</td>
<td>Obsolete</td>
</tr>
<tr>
<td>36</td>
<td>TST_TRF_GPA</td>
<td>NUMBER(10,3)</td>
<td>Obsolete</td>
</tr>
<tr>
<td>37</td>
<td>TST_INCL_GPA_FLG</td>
<td>VARCHAR2(1,0)</td>
<td>Obsolete</td>
</tr>
<tr>
<td>Seq#</td>
<td>Column Name</td>
<td>Data Type (length, precisions)</td>
<td>Change Type(Existing/New/Obsolete)</td>
</tr>
<tr>
<td>------</td>
<td>--------------------------------</td>
<td>--------------------------------</td>
<td>-----------------------------------</td>
</tr>
<tr>
<td>38</td>
<td>OTHR_ACAD_PROG_WID</td>
<td>NUMBER(10,0)</td>
<td>Obsolete</td>
</tr>
<tr>
<td>39</td>
<td>OTHR_ACAD_PLAN_WID</td>
<td>NUMBER(10,0)</td>
<td>Obsolete</td>
</tr>
<tr>
<td>40</td>
<td>OTHR_MDL_STAT_WID</td>
<td>NUMBER(10,0)</td>
<td>Obsolete</td>
</tr>
<tr>
<td>41</td>
<td>OTHR_TRNS_LVL_WID</td>
<td>NUMBER(10,0)</td>
<td>Obsolete</td>
</tr>
<tr>
<td>42</td>
<td>OTHR_UNIT_TRNSFR</td>
<td>NUMBER(10,0)</td>
<td>Obsolete</td>
</tr>
<tr>
<td>43</td>
<td>OTHR_TRF_PASS_GPA</td>
<td>NUMBER(10,0)</td>
<td>Obsolete</td>
</tr>
<tr>
<td>44</td>
<td>OTHR_TRF_PASS_NOGPA</td>
<td>NUMBER(10,0)</td>
<td>Obsolete</td>
</tr>
<tr>
<td>45</td>
<td>OTHR_TRF_TAKEN_GPA</td>
<td>NUMBER(10,0)</td>
<td>Obsolete</td>
</tr>
<tr>
<td>46</td>
<td>OTHR_TRF_TAKEN_NOGPA</td>
<td>NUMBER(10,0)</td>
<td>Obsolete</td>
</tr>
<tr>
<td>47</td>
<td>OTHR_TRF_GRD_POINT</td>
<td>NUMBER(10,0)</td>
<td>Obsolete</td>
</tr>
<tr>
<td>48</td>
<td>OTHR_TRF_GPA</td>
<td>NUMBER(10,0)</td>
<td>Obsolete</td>
</tr>
<tr>
<td>49</td>
<td>OTHR_INCL_GPA_FLG</td>
<td>VARCHAR2(1,0)</td>
<td>Obsolete</td>
</tr>
</tbody>
</table>

- W_SIA_TRANS_CREDIT_A

<table>
<thead>
<tr>
<th>Seq#</th>
<th>Column Name</th>
<th>Data Type (length, precisions)</th>
<th>Change Type(Existing/New/Obsolete)</th>
</tr>
</thead>
<tbody>
<tr>
<td>66</td>
<td>TRF_CRED_TYPE_ID</td>
<td>VARCHAR2(10,0)</td>
<td>New</td>
</tr>
<tr>
<td>67</td>
<td>ACAD_PLAN_WID</td>
<td>NUMBER(10,0)</td>
<td>New</td>
</tr>
<tr>
<td>68</td>
<td>ACAD_PROG_WID</td>
<td>NUMBER(10,0)</td>
<td>New</td>
</tr>
<tr>
<td>69</td>
<td>INCL_GPA_FLG</td>
<td>VARCHAR2(1,0)</td>
<td>New</td>
</tr>
<tr>
<td>70</td>
<td>MDL_STAT_WID</td>
<td>NUMBER(10,0)</td>
<td>New</td>
</tr>
<tr>
<td>71</td>
<td>TRF_GPA</td>
<td>NUMBER(10,3)</td>
<td>New</td>
</tr>
<tr>
<td>Seq#</td>
<td>Column Name</td>
<td>Data Type (length, precisions)</td>
<td>Change Type(Existing/New/Obsolete)</td>
</tr>
<tr>
<td>------</td>
<td>---------------------------</td>
<td>---------------------------------</td>
<td>-----------------------------------</td>
</tr>
<tr>
<td>72</td>
<td>TRF_GRD_POINTS</td>
<td>NUMBER(10,3)</td>
<td>New</td>
</tr>
<tr>
<td>73</td>
<td>TRF_PASS_GPA</td>
<td>NUMBER(10,3)</td>
<td>New</td>
</tr>
<tr>
<td>74</td>
<td>TRF_PASS_NOGPA</td>
<td>NUMBER(10,3)</td>
<td>New</td>
</tr>
<tr>
<td>75</td>
<td>TRF_TAKEN_GPA</td>
<td>NUMBER(10,3)</td>
<td>New</td>
</tr>
<tr>
<td>76</td>
<td>TRF_TAKEN_NOGPA</td>
<td>NUMBER(10,3)</td>
<td>New</td>
</tr>
<tr>
<td>77</td>
<td>TRNS_LVL_WID</td>
<td>NUMBER(10,0)</td>
<td>New</td>
</tr>
<tr>
<td>78</td>
<td>UNIT_TAKEN</td>
<td>NUMBER(10,3)</td>
<td>New</td>
</tr>
<tr>
<td>79</td>
<td>UNIT_TRNSFR</td>
<td>NUMBER(10,3)</td>
<td>New</td>
</tr>
<tr>
<td>80</td>
<td>W_INSERT_DT</td>
<td>DATE</td>
<td>New</td>
</tr>
<tr>
<td>81</td>
<td>W_UPDATE_DT</td>
<td>DATE</td>
<td>New</td>
</tr>
<tr>
<td>56</td>
<td>CREATED_BY_WID</td>
<td>NUMBER(10,0)</td>
<td>Existing</td>
</tr>
<tr>
<td>57</td>
<td>CHANGED_BY_WID</td>
<td>NUMBER(10,0)</td>
<td>Existing</td>
</tr>
<tr>
<td>7</td>
<td>CRSE_ACAD_PROG_WID</td>
<td>NUMBER(10,0)</td>
<td>Obsolete</td>
</tr>
<tr>
<td>8</td>
<td>CRSE_ACAD_PLAN_WID</td>
<td>NUMBER(10,0)</td>
<td>Obsolete</td>
</tr>
<tr>
<td>16</td>
<td>CRSE_TRNS_LVL_WID</td>
<td>NUMBER(10,0)</td>
<td>Obsolete</td>
</tr>
<tr>
<td>17</td>
<td>CRSE_MDL_STAT_WID</td>
<td>NUMBER(10,0)</td>
<td>Obsolete</td>
</tr>
<tr>
<td>18</td>
<td>CRSE_UNIT_TAKEN</td>
<td>NUMBER(10,3)</td>
<td>Obsolete</td>
</tr>
<tr>
<td>19</td>
<td>CRSE_UNIT_TRNSFR</td>
<td>NUMBER(10,3)</td>
<td>Obsolete</td>
</tr>
<tr>
<td>20</td>
<td>CRSE_TRF_TAKEN_GPA</td>
<td>NUMBER(10,3)</td>
<td>Obsolete</td>
</tr>
<tr>
<td>21</td>
<td>CRSE_TRF_TAKEN_NOGPA</td>
<td>NUMBER(10,3)</td>
<td>Obsolete</td>
</tr>
<tr>
<td>22</td>
<td>CRSE_TRF_PASS_GPA</td>
<td>NUMBER(10,3)</td>
<td>Obsolete</td>
</tr>
<tr>
<td>Seq#</td>
<td>Column Name</td>
<td>Data Type (length, precisions)</td>
<td>Change Type(Existing/New/Obsolate)</td>
</tr>
<tr>
<td>------</td>
<td>----------------------------------</td>
<td>---------------------------------</td>
<td>-----------------------------------</td>
</tr>
<tr>
<td>23</td>
<td>CRSE_TRF_PASS_OGPA</td>
<td>NUMBER(10,3)</td>
<td>Obsolete</td>
</tr>
<tr>
<td>24</td>
<td>CRSE_TRF_GRD_POINTS</td>
<td>NUMBER(10,3)</td>
<td>Obsolete</td>
</tr>
<tr>
<td>25</td>
<td>CRSE_TRF_GPA</td>
<td>NUMBER(10,3)</td>
<td>Obsolete</td>
</tr>
<tr>
<td>26</td>
<td>CRSE_INCL_GPA_FLAG</td>
<td>VARCHAR2(1,0)</td>
<td>Obsolete</td>
</tr>
<tr>
<td>27</td>
<td>TST_MDLS_STAT_WID</td>
<td>NUMBER(10,0)</td>
<td>Obsolete</td>
</tr>
<tr>
<td>28</td>
<td>TST_ACAD_PROG_WID</td>
<td>NUMBER(10,0)</td>
<td>Obsolete</td>
</tr>
<tr>
<td>29</td>
<td>TST_ACAD_PLAN_WID</td>
<td>NUMBER(10,0)</td>
<td>Obsolete</td>
</tr>
<tr>
<td>30</td>
<td>TST_TRNS_LVL_WID</td>
<td>NUMBER(10,0)</td>
<td>Obsolete</td>
</tr>
<tr>
<td>31</td>
<td>TST_UNIT_TRNSFR</td>
<td>NUMBER(10,3)</td>
<td>Obsolete</td>
</tr>
<tr>
<td>32</td>
<td>TST_TRF_TAKEN_GPA</td>
<td>NUMBER(10,3)</td>
<td>Obsolete</td>
</tr>
<tr>
<td>33</td>
<td>TST_TRF_TKN_NO_GPA</td>
<td>NUMBER(10,3)</td>
<td>Obsolete</td>
</tr>
<tr>
<td>34</td>
<td>TST_TRF_PASS_GPA</td>
<td>NUMBER(10,3)</td>
<td>Obsolete</td>
</tr>
<tr>
<td>35</td>
<td>TST_TRF_PASS_NO_GPA</td>
<td>NUMBER(10,3)</td>
<td>Obsolete</td>
</tr>
<tr>
<td>36</td>
<td>TST_TRF_GRD_POINTS</td>
<td>NUMBER(10,3)</td>
<td>Obsolete</td>
</tr>
<tr>
<td>37</td>
<td>TST_TRF_GPA</td>
<td>NUMBER(10,3)</td>
<td>Obsolete</td>
</tr>
<tr>
<td>38</td>
<td>TST_INCL_GPA_FLAG</td>
<td>VARCHAR2(1,0)</td>
<td>Obsolete</td>
</tr>
<tr>
<td>39</td>
<td>OTHR_ACAD_PROG_WID</td>
<td>NUMBER(10,0)</td>
<td>Obsolete</td>
</tr>
<tr>
<td>40</td>
<td>OTHR_ACAD_PLAN_WID</td>
<td>NUMBER(10,0)</td>
<td>Obsolete</td>
</tr>
<tr>
<td>41</td>
<td>OTHR_MDLS_STAT_WID</td>
<td>NUMBER(10,0)</td>
<td>Obsolete</td>
</tr>
<tr>
<td>Seq#</td>
<td>Column Name</td>
<td>Data Type (length, precisions)</td>
<td>Change Type(Existing/New/Obsolete)</td>
</tr>
<tr>
<td>------</td>
<td>------------------------------</td>
<td>--------------------------------</td>
<td>-----------------------------------</td>
</tr>
<tr>
<td>42</td>
<td>OTHR_TRNS_LVL_WID</td>
<td>NUMBER(10,0)</td>
<td>Obsolete</td>
</tr>
<tr>
<td>43</td>
<td>OTHR_UNIT_TRNSFR</td>
<td>NUMBER(10,0)</td>
<td>Obsolete</td>
</tr>
<tr>
<td>44</td>
<td>OTHR_TRF_PASS_GPA</td>
<td>NUMBER(10,0)</td>
<td>Obsolete</td>
</tr>
<tr>
<td>45</td>
<td>OTHR_TRF_PASS_NOGPA</td>
<td>NUMBER(10,0)</td>
<td>Obsolete</td>
</tr>
<tr>
<td>46</td>
<td>OTHR_TRF_TAKEN_GPA</td>
<td>NUMBER(10,0)</td>
<td>Obsolete</td>
</tr>
<tr>
<td>47</td>
<td>OTHR_TRF_TAKEN_NOGPA</td>
<td>NUMBER(10,0)</td>
<td>Obsolete</td>
</tr>
<tr>
<td>48</td>
<td>OTHR_TRF_GRD_POINT</td>
<td>NUMBER(10,0)</td>
<td>Obsolete</td>
</tr>
<tr>
<td>49</td>
<td>OTHR_TRF_GPA</td>
<td>NUMBER(10,0)</td>
<td>Obsolete</td>
</tr>
<tr>
<td>50</td>
<td>OTHR_INCL_GPA_FLG</td>
<td>VARCHAR2(1,0)</td>
<td>Obsolete</td>
</tr>
</tbody>
</table>

**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>
<thead>
<tr>
<th>Table Name</th>
<th>Upgrade Mode</th>
<th>Column Names</th>
</tr>
</thead>
<tbody>
<tr>
<td>W_SIA_INST_SUMM_A_M_A</td>
<td>Reload</td>
<td>All</td>
</tr>
<tr>
<td>Table Name</td>
<td>Action</td>
<td>Data Elements</td>
</tr>
<tr>
<td>----------------------------------------------</td>
<td>----------------</td>
<td>--------------------------------------</td>
</tr>
<tr>
<td>W_SIA_SCHOLAR_ATTR_D</td>
<td>Soft Delete and Insert</td>
<td>All</td>
</tr>
<tr>
<td>W_SIA_SCHOLAR_RSDNCY_D</td>
<td>Insert/Update</td>
<td>All</td>
</tr>
<tr>
<td>W_SIA_STDNT_DEG_PLN_D</td>
<td>Update</td>
<td>HONORS_PREFIXHONORS_SUFFIX</td>
</tr>
<tr>
<td>W_SIA_STDNT_DEG_SPLN_D</td>
<td>Update</td>
<td>HONORS_PREFIXHONORS_SUFFIX</td>
</tr>
<tr>
<td>W_SIA_TERM_D</td>
<td>Update</td>
<td>ACAD_YEAR</td>
</tr>
<tr>
<td>W_SIA_ACAD_PROG_DTL_F</td>
<td>Update</td>
<td>ACAD_CAR_WID</td>
</tr>
<tr>
<td>W_SIA_CLASS_ENRLMT_F</td>
<td>Update</td>
<td>TERM_ACTVN_DT_WID</td>
</tr>
<tr>
<td>W_SIA_ENRL_REQ_F</td>
<td>Update</td>
<td>CREATED_ON_DT</td>
</tr>
<tr>
<td>W_SIA_TERM_ENRLMT_F</td>
<td>Update</td>
<td>ACAD_ORG_WIDRETURNING_FLG</td>
</tr>
</tbody>
</table>

5. Metrics calculated differently:

<table>
<thead>
<tr>
<th>Subject Area</th>
<th>Presentation Table</th>
<th>Presentation Column</th>
</tr>
</thead>
<tbody>
<tr>
<td>SIA - Student Records - Academic Plan Summary</td>
<td>Fact - Academic Plan Summary</td>
<td>Degree GPA Points</td>
</tr>
<tr>
<td></td>
<td>Academic Subplan</td>
<td>Source Academic Subplan Code</td>
</tr>
<tr>
<td></td>
<td>Term Expected Graduation Term</td>
<td>Source Expected Graduation Term</td>
</tr>
<tr>
<td>SIA - Student Records - Academic Program Details</td>
<td>Term Expected Graduation Term</td>
<td>Source Expected Graduation Term</td>
</tr>
<tr>
<td>SIA - Student Records - Class Enrollment</td>
<td>Fact - Class Enrollment</td>
<td>Average GPA</td>
</tr>
<tr>
<td></td>
<td>Scholar</td>
<td>Sport</td>
</tr>
<tr>
<td>SIA - Student Records - Class Instructor</td>
<td>Instructor</td>
<td>Country</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Gender</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Marital Status</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Military Status</td>
</tr>
</tbody>
</table>
### 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:

<table>
<thead>
<tr>
<th>Subject Area</th>
<th>Presentation Table</th>
<th>Presentation Column</th>
</tr>
</thead>
<tbody>
<tr>
<td>SIA - Student Records - Academic Class</td>
<td>Course Administrator</td>
<td>Active Flag</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Course Admin First Name</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Course Admin ID</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Course Admin Last Name</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Course Admin Name</td>
</tr>
<tr>
<td>Primary Instructor</td>
<td>Country Code</td>
<td>Ethnic Group</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Marital Status Code</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Military Status Code</td>
</tr>
<tr>
<td>SIA - Student Records - Academic Program Details</td>
<td>Academic Career</td>
<td>Academic Career</td>
</tr>
<tr>
<td>-----------------------------------------------</td>
<td>-----------------</td>
<td>----------------</td>
</tr>
<tr>
<td></td>
<td>Academic Career Code</td>
<td>Academic Career Term Type Code</td>
</tr>
<tr>
<td></td>
<td>Active Flag</td>
<td>Source Academic Career</td>
</tr>
<tr>
<td></td>
<td>Source Academic Career Code</td>
<td></td>
</tr>
<tr>
<td>SIA - Student Records - Class Enrollment</td>
<td>Academic Level</td>
<td>Active Flag</td>
</tr>
<tr>
<td></td>
<td>Start Term</td>
<td>Country Code</td>
</tr>
<tr>
<td></td>
<td>Primary Instructor</td>
<td>Ethnic Group</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Marital Status Code</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Military Status Code</td>
</tr>
<tr>
<td>SIA - Student Records - Class Instructor</td>
<td>Instructor</td>
<td>Country Code</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Ethnic Group</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Marital Status Code</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Military Status Code</td>
</tr>
<tr>
<td>SIA - Student Records - Class Meeting Pattern</td>
<td>Instructor</td>
<td>Country Code</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Ethnic Group</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Marital Status Code</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Military Status Code</td>
</tr>
<tr>
<td>SIA - Student Records - Enrollment Requests</td>
<td>Instructor</td>
<td>Country Code</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Ethnic Group</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Marital Status Code</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Military Status Code</td>
</tr>
</tbody>
</table>
Student Information Analytics

<table>
<thead>
<tr>
<th>Seq#</th>
<th>Column Name</th>
<th>Data Type (length, precisions)</th>
<th>Change Type(Existing/New/Obsolete)</th>
</tr>
</thead>
<tbody>
<tr>
<td>7</td>
<td>ACAD_YR</td>
<td>VARCHAR2(15)</td>
<td>Existing</td>
</tr>
</tbody>
</table>

7. Data model changes:

- **W_SIA_TERM_D**

- **W_SIA_RECRTR_EXT_DS**

- **W_SIA_RECRTR_REG_DS**

- **W_SIA_STDNT_DEG_PLN_DS**

- **W_SIA_STDNT_DEG_SPLN_DS**
### Student Information Analytics

New ETL Content in Oracle BI Applications 11.1.1.10.1  A-45

---

<table>
<thead>
<tr>
<th>Seq#</th>
<th>Column Name</th>
<th>Data Type (length, precisions)</th>
<th>Change Type(Existing/New/Obsolete)</th>
</tr>
</thead>
<tbody>
<tr>
<td>6</td>
<td>HONORS_SUFFIX</td>
<td>VARCHAR2(20)</td>
<td>Existing</td>
</tr>
</tbody>
</table>

- **W_SIA_STDNT_DEG_PLN_D**

<table>
<thead>
<tr>
<th>Seq#</th>
<th>Column Name</th>
<th>Data Type (length, precisions)</th>
<th>Change Type(Existing/New/Obsolete)</th>
</tr>
</thead>
<tbody>
<tr>
<td>9</td>
<td>HONORS_PREFIX</td>
<td>VARCHAR2(20)</td>
<td>Existing</td>
</tr>
<tr>
<td>10</td>
<td>HONORS_SUFFIX</td>
<td>VARCHAR2(20)</td>
<td>Existing</td>
</tr>
</tbody>
</table>

- **W_SIA_STDNT_DEG_SPLN_D**

<table>
<thead>
<tr>
<th>Seq#</th>
<th>Column Name</th>
<th>Data Type (length, precisions)</th>
<th>Change Type(Existing/New/Obsolete)</th>
</tr>
</thead>
<tbody>
<tr>
<td>6</td>
<td>HONORS_PREFIX</td>
<td>VARCHAR2(20)</td>
<td>Existing</td>
</tr>
<tr>
<td>7</td>
<td>HONORS_SUFFIX</td>
<td>VARCHAR2(20)</td>
<td>Existing</td>
</tr>
</tbody>
</table>

- **W_SIA_ACAD_PROG_DTL_FS**

<table>
<thead>
<tr>
<th>Seq#</th>
<th>Column Name</th>
<th>Data Type (length, precisions)</th>
<th>Change Type(Existing/New/Obsolete)</th>
</tr>
</thead>
<tbody>
<tr>
<td>38</td>
<td>ACAD_CAR_ID</td>
<td>VARCHAR2(80)</td>
<td>New</td>
</tr>
</tbody>
</table>

- **W_SIA_ACAD_PROG_DTL_F**

<table>
<thead>
<tr>
<th>Seq#</th>
<th>Column Name</th>
<th>Data Type (length, precisions)</th>
<th>Change Type(Existing/New/Obsolete)</th>
</tr>
</thead>
<tbody>
<tr>
<td>39</td>
<td>ACAD_CAR_WID</td>
<td>NUMBER(10)</td>
<td>New</td>
</tr>
</tbody>
</table>

#### Student Financials (SF)

Following are the upgrade changes:

1. Affected tables and columns:

<table>
<thead>
<tr>
<th>Table Name</th>
<th>Upgrade Mode</th>
<th>Column Names</th>
</tr>
</thead>
<tbody>
<tr>
<td>W_SIA_CREDIT_HIST</td>
<td>Update</td>
<td>BILL_CAR_WID</td>
</tr>
<tr>
<td>W_SIA_SF_PAYMENT</td>
<td>Update</td>
<td>ACAD_CAR_WIDACAD_PROG_WI</td>
</tr>
<tr>
<td></td>
<td></td>
<td>DSESSION_CODE_WIDSELF_SRVC_FLGTENDER_CTGRY</td>
</tr>
</tbody>
</table>
2. Metrics calculated differently:

<table>
<thead>
<tr>
<th>Subject Area</th>
<th>Presentation Table</th>
<th>Presentation Column</th>
</tr>
</thead>
<tbody>
<tr>
<td>SIA - Student Financials - Billing Summary</td>
<td>Time - Due Date</td>
<td>Month</td>
</tr>
<tr>
<td>SIA - Student Financials - Credit History</td>
<td>Aging Category</td>
<td>Summary Category</td>
</tr>
<tr>
<td></td>
<td>Time - Encumbered Date</td>
<td>Description</td>
</tr>
<tr>
<td>SIA - Student Financials - Payment Details</td>
<td>Time - Posted Date</td>
<td>Month</td>
</tr>
<tr>
<td>SIA - Student Financials - Transaction Details</td>
<td>Fact - SIA Transaction Detail</td>
<td>Line Amount</td>
</tr>
<tr>
<td></td>
<td>Time - Actual Billing Date</td>
<td>Month</td>
</tr>
<tr>
<td></td>
<td>Time - Billing Date</td>
<td>Month</td>
</tr>
<tr>
<td></td>
<td>Time - Class Price Date</td>
<td>Month</td>
</tr>
<tr>
<td></td>
<td>Time - Dispute Date</td>
<td>Month</td>
</tr>
<tr>
<td></td>
<td>Time - Encumbered Date</td>
<td>Month</td>
</tr>
<tr>
<td></td>
<td>Time - GL Posting Date</td>
<td>Month</td>
</tr>
<tr>
<td></td>
<td>Time - Posted Date</td>
<td>Month</td>
</tr>
<tr>
<td></td>
<td>Time - Transaction Due Date</td>
<td>Month</td>
</tr>
</tbody>
</table>
3. New attributes:

<table>
<thead>
<tr>
<th>Subject Area</th>
<th>Presentation Table</th>
<th>Presentation Column</th>
</tr>
</thead>
<tbody>
<tr>
<td>SIA - Student Financials -</td>
<td>Fee Code</td>
<td>Source Fee Code</td>
</tr>
<tr>
<td>Transaction Details</td>
<td>Item Term</td>
<td>Active Flag</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Item Term Source Code</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Item Term Source Description</td>
</tr>
<tr>
<td></td>
<td>Time - Aging Date</td>
<td>Date</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Day Name</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Month</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Quarter</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Year</td>
</tr>
<tr>
<td>SIA - Student Financials -</td>
<td>Fee Code</td>
<td>Source Fee Code</td>
</tr>
<tr>
<td>Transactions</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

4. Data model changes:

- **W_SIA_SF_PAYMENT_FS**

<table>
<thead>
<tr>
<th>Seq#</th>
<th>Column Name</th>
<th>Data Type (length, precisions)</th>
<th>Change Type(Existing/New/Obsolete)</th>
</tr>
</thead>
<tbody>
<tr>
<td>17</td>
<td>SESSION_CODE</td>
<td>VARCHAR2(25)</td>
<td>Existing</td>
</tr>
</tbody>
</table>

- **W_SIA_SF_TRAN_DTL_FS**
Financial Aid (FA)
Following are the upgrade changes:

1. Metrics calculated differently:

<table>
<thead>
<tr>
<th>Subject Area</th>
<th>Presentation Table</th>
<th>Presentation Column</th>
</tr>
</thead>
<tbody>
<tr>
<td>SIA - Financial Aid - Award Disbursement</td>
<td>Fact - Award</td>
<td>Accepted Amount as a % of Offered Amount</td>
</tr>
<tr>
<td></td>
<td>Disbursement</td>
<td>Authorized Amount as a % of Accepted Amount</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Disbursed Amount as a % of Authorized Amount</td>
</tr>
<tr>
<td>Student Aid Attribute</td>
<td></td>
<td>Source Packaging Plan</td>
</tr>
<tr>
<td>Time - Term Begin Date</td>
<td></td>
<td>Month</td>
</tr>
<tr>
<td>SIA - Financial Aid - Award Summary</td>
<td>Student Aid Attribute</td>
<td>Source Packaging Plan</td>
</tr>
<tr>
<td>Snapshot</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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.