OUM

DS.140 Design Specification

Cigna Corporation

BI-ETL-0004 ODI PO, Supplier ETL Technical Requirements

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| Vinay Pachika |  |

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# Document Control

## Change Record

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| Date | Author | Version | Change Reference |
| --- | --- | --- | --- |
| 01-Aug-16 | Venkat J | 1.0 | ODI PO and Supplier details Change |

## Reviewers

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# Business Overview

As part of the Building Financial Foundations project, Oracle Enterprise Business Suite (EBS) R12 was implemented / upgraded in an effort to modernize the overall accounting and financial reporting process. Reporting for the General Ledger (GL), Accounts Payable (AP), Fixed Assets (FA) and Accounts Receivable (AR) were developed in Discoverer.

To build upon the current reporting, the Expense Redesign projects plans to implement Business Intelligence (BI) to:

* Integrated systems and reporting tools to automate business processes and better insight into data resulting in time and cost savings
* Self-Service Business Intelligence to aid timely and intelligent business decisions by providing trustworthy and relevant and timely access to data
* Build a solid foundation for future reporting needs, including management reporting and analytics. Replace older reporting tools with modern and more effective integrated reporting technologies
* Provide a platform for analytical and operational reporting
* Adhoc reporting with drilldown and dashboard capabilities
* Extend the current operational reporting capabilities
* Enhance analytical, real time, metadata reporting capabilities

Business Intelligence reporting will be standardized on the Oracle Business Intelligence Enterprise Edition (OBIEE) platform. Oracle Business Intelligence Application (OBIA) will be implemented to provide GAAP, STAT, MLR reporting, extend analysis capabilities, and provide operating expense reporting to various areas in the Finance community.

Pre-allocation expenses transactions reside in the custom area of Oracle EBS. Out of the box OBIA ETL do not bring them into OBIA data warehouse or BI. So custom extract transform, load procedures need to be designed and built to bring these data into OBIA data warehouse, to enable further BI analytical reporting on pre-allocated expenses data.

This document describes the functional requirements, source of data elements, logic and flow of the Extract, Transform and Load (ETL) process.

PO Number and Supplier Details:

* + Add Purchase Order number and Supplier details to Asset Dimension.

## Assumptions

* Populate the PO Number value into W\_FIXED\_ASSET\_D table
* The scope of these changes is limited to incremental load only.
* Data quality issues if any will be handled by the source system (EBS).
* In Case of M:M relationship(Many PO’s : Many Asset’s), below is the cleansing process(As informed by John):

-> Summer will create a CSC ticket to request an alert be created to check for Assets with multiple POs or multiple suppliers.

-> In the event this condition happens, Summer’s team would retire the asset in question and create a new one with the correct PO association.

-> BI would consume these changes through the existing process. The original asset would show as retired with the associated PO being the one with the most recent updated date, and the new Assset showing with the correct PO based on the association made when the asset is created

## Risks & Issues

|  |  |  |  |
| --- | --- | --- | --- |
| **ID** | **Risk/Issue** | **Probability**  **(H/M/L)** | **Mitigation** |
|  |  |  |  |
|  |  |  |  |

## Referential Documents

The following document is the Functional document and requirements:

Purchar Order and Supplier details:

https://centralhub.cigna.com/project/epms13058/Expense%20Reporting/Design/Reporting/Functional%20Specs/ETL/BI-ETL-0004\_CHANGES\_TO\_OOTB\_OBIA\_ETL.docx

## Definitions and Acronyms

|  |  |
| --- | --- |
| **Key Word** | **Meaning** |
| OBIEE | Oracle Business Intelligence Enterprise Edition |
| OOB | Out Of The Box |
| RPD | Repository File |
| ETL | Extract, Transform and Load |
| BI | Business Intelligence |
| OBAW / DW | OBIA Data warehouse |
| EBS R12 | Oracle E-Business Suite Release 12 |
| OBIA | Oracle Business Intelligence Applications |

# Functional Requirements

* Add Purchase Order and Supplier details to Asset Dimension table

# Technical Overview

* + Update ETL to Add Purchase Order Number and Supplier Name to enable reporting Assets by PO and Supplier.

|  |  |
| --- | --- |
| Folder Name | CUSTOM\_SDE\_ORAR1213\_Adaptor |
| Sub Folder | SDE\_ORA\_FixedAssetDimension |
| Package Name | SDE\_ORA\_FixedAssetDimension |
| Scenario Name | SDE\_ORAR1213\_ADAPTOR\_SDE\_ORA\_FIXEDASSETDIMENSION |
| Interfaces | SDE\_ORA\_FixedAssetDimension.W\_FIXED\_ASSET\_DS\_M\_TO\_M , SDE\_ORA\_FixedAssetDimension.W\_FIXED\_ASSET\_DS |
| Variables |  |

|  |  |
| --- | --- |
| Folder Name | CUSTOM\_SILOS\_ORAR1213\_Adaptor |
| Sub Folder | SIL\_FixedAssetDimension |
| Package Name | SIL\_FixedAssetDimension |
| Scenario Name | SILOS\_SIL\_FIXEDASSETDIMENSION |
| Interfaces | SIL\_FixedAssetDimension.W\_FIXED\_ASSET\_D |
| Variables |  |

**SDE Change:**

**Step-1:**

Interface: SDE\_ORA\_FixedAssetDimension.W\_FIXED\_ASSET\_DS\_M\_TO\_M

Change: This interface is used to select the PO which have the max(last\_update\_dt) for each Asset.In case if two PO's have the same last\_upd\_date then we have to select the MAX(PO).

**Filter-1: FA\_ASSET\_INVOICES.PO\_DISTRIBUTION\_ID IS NOT NULL**

**Filter-2:**

(FA\_ASSET\_INVOICES.PO\_NUMBER||FA\_ASSET\_INVOICES.LAST\_UPDATE\_DATE) =

(SELECT (MAX(PO\_number)|| max(LAST\_UPDATE\_DATE)) FROM fa\_asset\_invoices f1 WHERE LAST\_UPDATE\_DATE = (SELECT MAX (LAST\_UPDATE\_DATE) FROM fa\_asset\_invoices f2 WHERE f1.asset\_id = f2.asset\_id AND F2.po\_distribution\_id IS NOT NULL) AND f1.asset\_id = FA\_ASSET\_INVOICES.asset\_id AND F1.po\_distribution\_id IS NOT NULL)

**Step-2:**

Interface: SDE\_ORA\_FixedAssetDimension.W\_FIXED\_ASSET\_DS

Change: Join temporary table SDE\_ORA\_FixedAssetDimension.W\_FIXED\_ASSET\_DSwith newly created SDE\_ORA\_FixedAssetDimension.W\_FIXED\_ASSET\_DS\_M\_TO\_M and populate PO and Supplier details.

**Change In SIL:**

**Interface:** SIL\_FixedAssetDimension.W\_FIXED\_ASSET\_D

**Change:** Populate X\_PO\_NUMBER from Dimension Stage and X\_SUPPLIER\_WID by lookup condition.

Lookup: SQ\_W\_FIXED\_ASSET\_DS.X\_PO\_VENDOR\_ID=W\_PARTY\_D.SUPPLIER\_ID AND

SQ\_W\_FIXED\_ASSET\_DS.DATASOURCE\_NUM\_ID=W\_PARTY\_D.DATASOURCE\_NUM\_ID

# ELT Overview

## Database Tables & Models in ODI:

Create the new column X\_PO\_NUMBER,X\_PO\_VENDOR\_ID in W\_FIXED\_ASSET\_D, W\_FIXED\_ASSET\_DS db.

List of tables or view created for this change as below:

|  |  |  |
| --- | --- | --- |
| Script Name | Description | Schema |
| X\_PO\_VENDOR\_DTL\_REL2\_ALTR.sql | This script is used to add X\_PO\_NUMBER, X\_SUPPLIER\_WID columns in W\_FIXED\_ASSET\_D table and X\_PO\_NUMBER,X\_PO\_VENDOR\_ID column to w\_fixed\_asset\_ds table. | <DW\_SCHEMA> |

**Model Changes:**

Reverse engineer the below tables

|  |  |
| --- | --- |
| Folder Name | Oracle BI Applications |
| Sub Folder | Dimension, Dimension Stage |
| Table |  |
| Change Description | Added X\_PO\_NUMBER, X\_SUPPLIER\_WID column to W\_FIXED\_ASSET\_D table  Added X\_PO\_NUMBER ,X\_PO\_VENDOR\_ID columns to W\_FIXED\_ASSET\_DS table |

## Data Lineage/Mapping

Please refer to the following Paths Excel document for the EBS Data Sources, Staging table Mappings for both Fact and Dimensions, and final Target table mappings:



## Custom Components

Please refer the list of the custom objects used for this change(DB tables, and ODI components).



# Open and Closed Issues

1. Add open issues that you identify while writing or reviewing this document to the open issues section. As you resolve issues, move them to the closed issues section and keep the issue ID the same. Include an explanation of the resolution.  
     
   When this work product is complete, any open issues should be transferred to the project- or process-level Issue Log (Manage focus area) and managed using a project level Issue Form (Manage focus area). In addition, the open items should remain in the open issues section of this work product, but flagged in the resolution column as being transferred.

## Open Issues

| **ID** | **Issue** | **Resolution** | **Responsibility** | **Target Date** | **Impact Date** |
| --- | --- | --- | --- | --- | --- |
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## Closed Issues

| **ID** | **Issue** | **Resolution** | **Responsibility** | **Target Date** | **Impact Date** |
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