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An effectively migrated data is a demonstration to the stakeholders that the ERP system is an accurate reflection of their current organization. This increases their confidence in the system and in turn is a key factor in the ultimate success of ERP implementation.

The final objective, of this document is to show the approach and strategy of Data migration activities in case of a R12 Upgrade project to match and balance data from Oracle Apps 11i Database with the new Oracle Apps R12 environment. To achieve this, all Master and Transactional data need to be checked before loading.

### **R12 Upgrade Data Migration Approach & Strategy:**

Following stages can be suggested to be followed in a R12 upgrade project.

1. Identifying the data item to be migrated.
2. Determining the timing of the data migration.
3. Finalizing data templates
4. Finalizing the method of data migration.
5. Freezing the development and testing of validation programs.

6.Deciding on migration related setups.

7.Actual Data Migration.

8.Post migration validation.

### Identifying the data item to be migrated

For R12 upgrade project first step of data migration is to identify different type of data item. This includes mainly two types. One is transactional data and another is master data. Data can be collected from Oracle 11i database of the existing server or from other external sources.

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### Determining the timing of the data migration

As far as timing of data load is concerned each of the above data items follows different time lines. Certain transactional data items are dependent upon the loading of their master data items. So it needs to decide and plan the data migration schedule properly.

The team and client should decide the time lines before hand. It is suggested to start the data loading from CRP to make it perfect for final Production. UAT will be conducted in an environment similar to the production environment so data migration in it is very important. The success of data migration is very much dependent on the results of UAT.

### **Finalizing data templates**

This is one of the important and initial steps of the design of data migration programs in case of migration of any customized modules.

One of the Initial steps would be to finalize the Data template depends on data receiving from the legacy system if any and what all the information we need to upload into the ERP system.

The following are some sample guidelines for any data migration templates.

1. All dates should be in the form DD-MMM-YYYY, 01-Jan-1900.

1. Avoid commas in text fields as they can cause the data to split into 2 separate fields.

1. Do not use comma separators or currency symbols for numeric values.

1. Where a field has a reference value, i.e. VAT codes, and ensure that the value exactly matches one of the entries in the lookup.

2. Where a field references another template, i.e. supplier name, make sure that it matches exactly. (Use the vlookup function, see below).

3. Check that text fields do not have trailing spaces. (Use the 'Trim' function). Field lengths are important; make sure they are within the limits set out in the guides. (Use the 'len').

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### Finalizing the method of data migration

It is suggested to use the latest tool "Oracle Data Integrator" to load the data from Oracle 11i database or external source to the Staging or Interface tables. Oracle

Open Interfaces or Oracle API's will be used to load data into the Base tables for the R12 standard modules. To load data for the Custom modules Validation and Load programs should be used as required.

### Freezing the development and testing of migration program

In R12 implementation there might be data migration for Custom modules as well as Seeded Modules.

- In case of Custom modules it would be important to design and develop data migration programs to validate and load the data into the target base tables.
- In case of Standard modules it would also be necessary to develop data migration programs to load the data into the seeded tables.

These programs should also include column for processing flag and for error messages. All the data migration programs should produce a report containing information about Success and Failed data at different level of data loading.

Testing of these programs can be done using dummy data from development database.

### Deciding on migration related setups

Before loading transactional data into the R12 environment, it is necessary that all the setups are there in place like setting of different parameters, profile options etc Transactional Data can't be loaded -successfully without proper set-ups resulting into poor quality data loading.

### **Actual Data Migration**

The real data migration activities will start in the CRP environment and then in UAT environment for User testing, before R12 environment goes live.

### **Post migration validation**

All the reports in Oracle Apps R12 System should be run to reconcile the data and match those with the client expectations.

### **Tools to be used**

Four different tools can be used to load data into the oracle database. We could use different tools for different types of data.

**1. Oracle Data Integrator:** Oracle Data Integrator features an active integration platform that includes all styles of data integration: data-based, event-based, and service-based. Capable of transforming large volumes of data efficiently, processing events in real time through its advanced Changed Data Capture (CDC) capability, or providing data services to the Oracle SOA Suite, Oracle

Data Integrator unifies silos of integration. It also provides robust data integrity control features, assuring the consistency and correctness of data

Oracle Data Integrator Enterprise Edition addresses multiple enterprise data integration needs.

- **Data Warehousing and Business Intelligence:** by executing high-volume, high-performance loading of data warehouses, data marts, On

- Line Analytical Processing (OLAP) cubes, and analytical applications. It transparently handles incremental loads and slowly changes dimensions, manages data integrity and consistency, and analyzes data lineage.
  
- **Service-Oriented Architecture:** by calling on external services for data integration and by deploying data services and transformation services that can be seamlessly integrated within an SOA infrastructure. It adds support for high-volume, high-performance bulk data processing to an existing service-oriented architecture.
  
- **Master Data Management (MDM) :** by providing a comprehensive data synchronization infrastructure for customers who build their own data hubs, work with packaged MDM solutions, or coordinate hybrid MDM systems with integrated SOA process analytics and Business Process Execution Language (BPEL) compositions.
  
- **Data Migration:** by providing efficient bulk load of historical data (including complex transformations) from existing systems to new ones. It continues to seamlessly synchronize data for as long as the two systems coexist.

**2. SQL Loader:** This tool picks data from a data file in a specific format (‘.csv’) and loads it into the staging table. From here the data can be moved to the base application tables using SQL Scripts.



**3. Oracle Standard APIs:** These are program interfaces provided by Oracle to load standard data into the base application tables.

**4. Custom Built Interfaces:** These need to be developed for non-standard data that need to be loaded into the database

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**Key items should be given importance during the migration.**

### Module

### Components

Human

Organization and Organization Hierarchy

Resources

Job

Location

Competence

Position and Position Hierarchy

Employee Details

Personal Address

Employee Assignment Details

Cost centre assigngment (SIT - BBUK Default Project Details)

Emp Salary

Bank Information

Absence and sickness

Competence Details

Job wise competence profiles

Employee Wise Competence

Ex-employee details

EX Emp Assignment Hist

EX Emp Last Assignment

Employee Training Records

Qualification Details

Previous Employment

Passport and Work Permit Details

Phone Details

Contact Details

Employee Movement and Assignment History

Assignment Time Information details

SIT - BBUK Time Keeper Valid Projects

Payroll

Element and element link

Emp Ele Wise Balances

Employee wise Ele List

## Oracle EBS R12 Upgrade - Data migration Approach

Written by Samuel

Wednesday, 07 December 2011 03:16 - Last Updated Wednesday, 07 December 2011 03:42

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Monthly wise Ele List

Emp wise Elem History

General Ledger

GL Open Trial Balance

Journal Transactions

Payables

Open Invoices

Open Unreconciled Items – Payments



Receivables

Receipts - Unapplied; Unaccounted; Unidentified

Open Transactions

Fixed Assets

Assets

Projects

Project

Budget

### Project Cost

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### Module

### Components

### Project Revenue

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Project Contracts

Project Balance

Inventory

Item Category

Item

Item Balance

User Access Details

Purchasing

Purchase Order

Receipts

Valuation

Labour Time Sheet

Subcontractor Employee Definition

EAM Related Components

### **Master Data Management (MDM)**

Master Data Management (MDM) is a strategy for identifying, validating, managing and sharing selected master data. It is a system of business processes and technology components that ensures information about business objects, such as materials, products, employees, customers, suppliers, and assets, is current, consistent, and accurate wherever they are used inside or exchanged outside the enterprise

Oracle has introduced MDM feature in EBS R12 release which needs to be considered in case of Data migration.

### **Processes for any MDM system.**

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Oracle EBS R12 MDM includes a large portfolio of purpose built master data management applications. The MDM Applications include all MDM Hubs and their corresponding data quality servers.

### Oracle Apps R12 data migration and Master Data Management (MDM)

The R12 upgrade requirements related Master Data Management (MDM) will be managed with the recent Oracle Product Information Management (PIM) Data Hub released with e-Business Suite (R12). This will help to establish a general framework of MDM capabilities and directions.

### Oracle PIM Data Hub includes the following

- The tools needed to create, maintain and share high quality master product records.
- The architecture includes a common repository of master data that is created using PIM import tools, such as integration software to access disparate data sources, and rule based data validation, cleansing and matching software.
- An Import Workbench has been released in R12 along with advancements in matching

technology, source data cross referencing, import exception management, and others.

Master records are published, making consistent information available to a variety of applications both internal and external to the users business, such as for electronic catalogs. Data loading is a significant cost component of MDM, and Oracle is wisely investing in capabilities, not only to cut costs but also to make the process more dynamic and visible.

### Master Data Management Using Oracle Data Integrator

Data Integration is essential for MDM in that it loads, updates and helps automate the creation of MDM data hubs. MDM also utilizes data integration for integration quality processes and metadata management processes to help with data lineage and relationship management. The Oracle Data Integration Suite

(ODI) provides a fully unified solution for building, deploying, and managing complex data warehouses. In addition, it combines all the elements of data integration—data movement, data synchronization, data quality, data management, and data services—to ensure that information is timely, accurate, and consistent across complex systems.

### **Risk and mitigation strategy**

Here is some sample potential risks associated with migration and has come out with a draft mitigation strategy. This is presented below:

**SI.**



### Description

### Impact

### Mitigation Strategy

No

1.

Delays in

Schedule

Involve client business process owner /

Clarifications

Overrun,

solution managers.

## Oracle EBS R12 Upgrade - Data migration Approach

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Cost

Escalate issues to client's Management

from time to time through weekly status

reports

2.

Go-Live of Master

All prerequisites (infrastructures) for Go

Data and

Live and Transactional Data should be

Transactional

made available before Production Go

Data Migration.

Live.

5.

Delay in Data

Schedule

Involve Client business process owner /

Cleaning and

Overrun,

solution managers and migration owner.

getting validated

Cost

Escalate issues to client's Management



go-live data

from time to time through weekly status

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reports

### Conclusion

Data migration Oracle EBS11i System to new Oracle Apps R12 system is very important for any implementation project to be a successful one. We must encourage the team to follow all the activity that it deserves.

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