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

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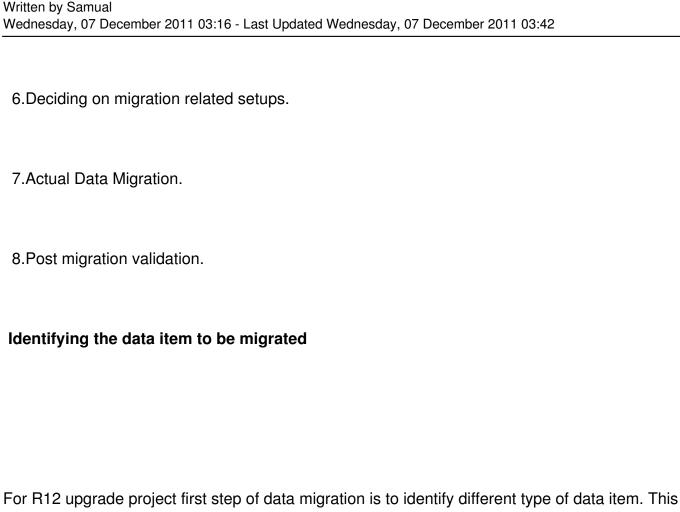
An effectively migrated data is a demonstration to the stakeholders that the ERP system is an accurate reflection of their current organization. This increases their confidence in the system and in turn is a key factor in the ultimate success of ERP implementation.

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.

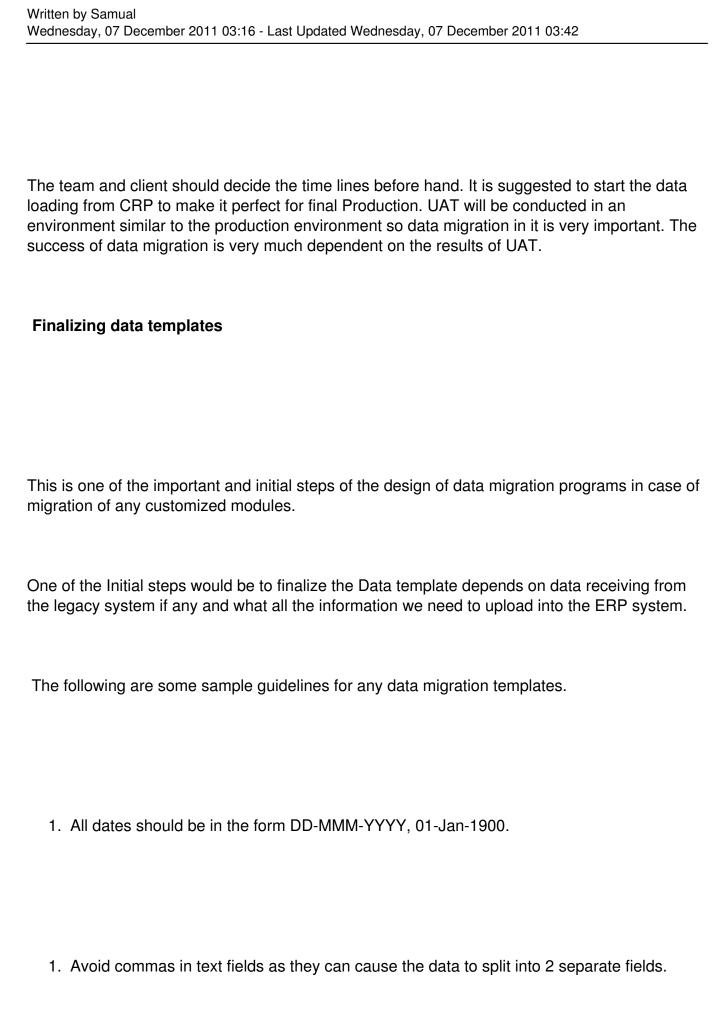


For R12 upgrade project first step of data migration is to identify different type of data item. This includes mainly two types. One is transactional data and another is master data. Data can be collected from Oracle 11i database of the existing server or from other external sources.

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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.



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- 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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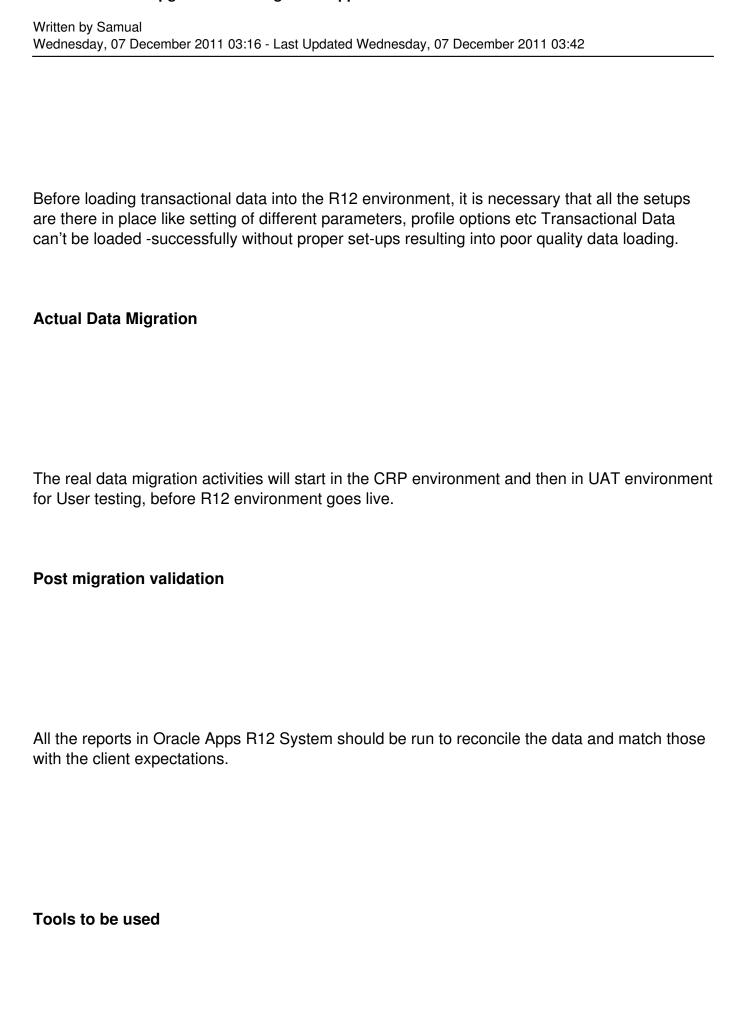
Finalizing the method of data migration

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.

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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



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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

Oracle EBS R12 Upgrade - Data migration Approach Written by Samual Wednesday, 07 December 2011 03:16 - Last Updated Wednesday, 07 December 2011 03:42 - 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.

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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 me given importance during the migration.
Module
Components

Written by Samual Wednesday, 07 December 2011 03:16 - Last Updated Wednesday, 07 December 2011 03:42			
Human			
Organization and Organization Hierarchy			
Resources			
Job			
Location			
Competence			

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Position and Position Hierarchy
Employee Details
Personal Address
Employee Assignment Details
Cost centre assiggment (SIT - BBUK Default Project Details)
Emp Salary

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Bank Information
Absence and sickness
Competence Details
Job wise competence profiles
Employee Wise Competence

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Ex-employee details				
EX Emp Assignment Hist				
EX Emp Last Assignment				
Employee Training Records				
Qualification Details				

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Previous Employment
Passport and Work Permit Details
Phone Details
Contact Details
Employee Movement and Assignment History

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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				

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Receivables
Receipts - Unapplied; Unaccounted; Unidentified
Open Transactions
Fixed Assets
Assets
Projects
Project
Budget

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Project Cost

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Module

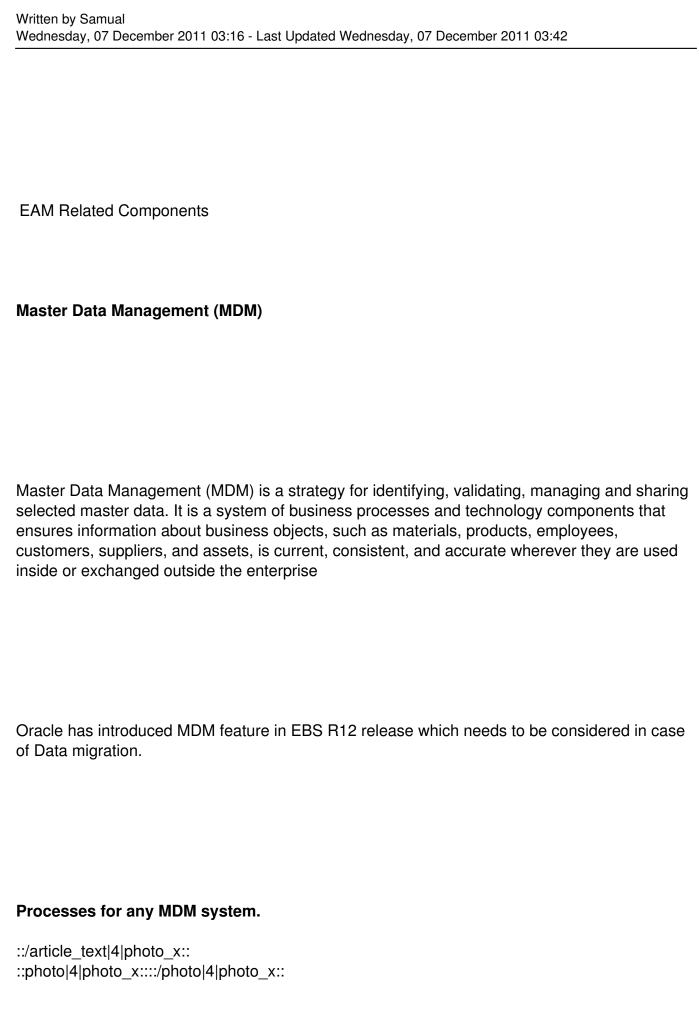
Components

Project Revenue

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Project Contracts		
Project Balance		
Inventory		
Item Category		
Item		
Item Balance		

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User Access Details
Purchasing
Purchase Order
Receipts
Valuation
Labour Time Sheet
Subcontractor Employee Definition



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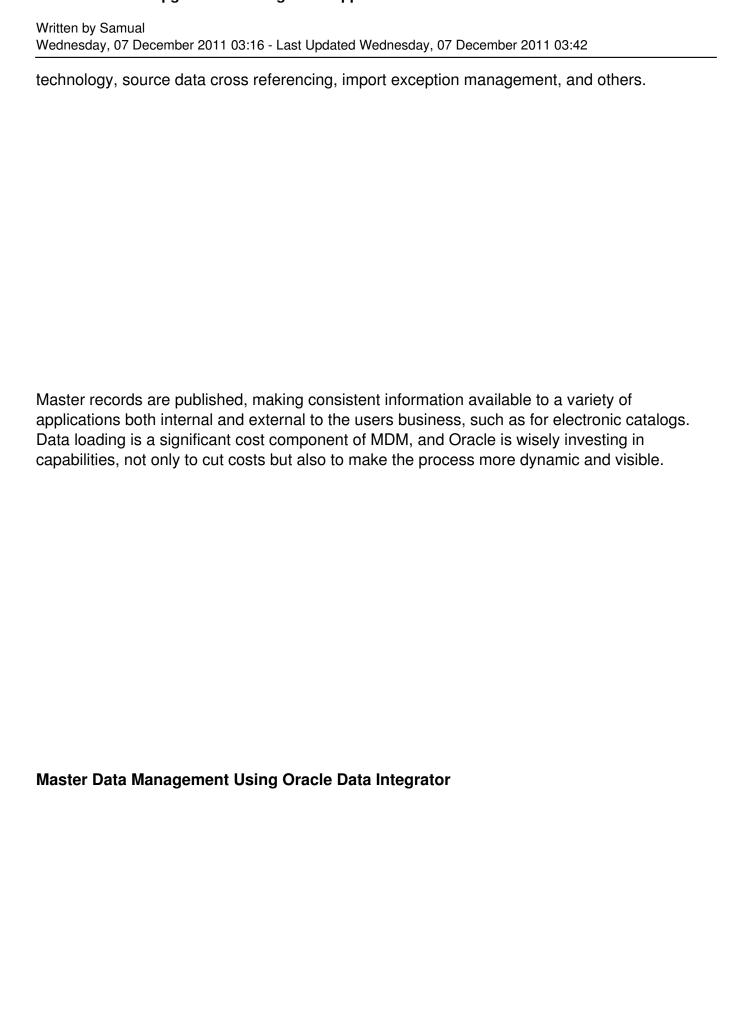
Oracle EBS R12 MDM includes a large portfolio of purpose built master data management applications. The MDM Applications include all MDM Hubs and their corresponding data quality servers.

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



Written by Samual Wednesday, 07 December 2011 03:16 - Last Updated Wednesday, 07 December 2011 03:42 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 guality 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.

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Wednesday, 07 December 2011 03:16 - Last Updated Wednesday, 07 December 2011 03:42 **Description Impact Mitigation Strategy** No

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1.	
Delays in	
Schedule	
Involve client business process owner /	
Clarifications	
Overrun,	
solution managers.	

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Cost
Escalate issues to client's Management

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from time to time through weekly status
reports
2.

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Go-Live of Master
All prerequisites (infrastructures) for Go
Data and
Live and Transactional Data should be

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Transactional
made available before Production Go
Data Migration.
Live.

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5.
Delay in Data
Schedule
Involve Client business process owner /

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Cleaning and
Overrun,
solution managers and migration owner.
getting validated
Cost
Escalate issues to client's Management



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Written by Samual

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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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