MDM Project

Introduction

1.1 Business Use case

The customer is one of the biggest Electronic Manufacturing Services having operations globally. Master data challenges at this company were typical to what you would find at similar other large companies that operate globally. This company was plagued with multitude of IT systems throughout the world. Company's master data such as products, customers and vendors reside in these disparate silos leading to several data quality issues. These data quality issues prevented the company from standardizing their data globally. Without globally standardized data it was hard to standardize company's business processes or to get an enterprise wide visibility to global reporting.

The business use case is to build an enterprise system which will help collaboration of the different functions to establish robust data management architecture

1.2 Business Scenario

The Company has local operations in different sites. For example, this business case considers the local operations in 4 different sites and the Global Procurement team at corporate office negotiates the contracts with the Global supplier. All the local procurement team use the centrally negotiated prices for the purchase transactions released in their operational system.

The Global procurement teams needs an MDM application to maintain the mapping of related local suppliers to the equivalent Global Supplier. This x-ref mapping information is used for de-mapping in the local systems for generating the Purchase transactions and the reporting teams use them for the Global spend on these local purchase transactions.

Local at Sites:

- Local sites create a business partner (Local Supplier) in the site operational ERP system.

- All business transactions uses the local supplier data assigned at the site level

- They use the x-ref of local to Global for de-mapping purposes

Global Procurement team:

- Corporate team uses an MDM application to request and create Global Suppliers' Workflow request is initiated on the request from the Buyers.

- The Workflow request has to be collaborated within MDM team, Procurement team and the Finance teams.

- Map the Local Suppliers to an equivalent Global Supplier using the names with the mapping tool.

Data Interfaces & Actions in MDM:

- All Local Suppliers are sent thru an Interface into MDM system. A notification is sent to the MDM Data steward on creation of local suppliers in the MDM system.

- MDM System creates the Local Suppliers and standardize the Names (Name in Capital letters)

- The MDM Data Steward maps the Local Suppliers to a Global Supplier. They use the fuzzy matching logic using the supplier name and this is an Interactive key mapping. In case of exceptions, no Global Supplier is found, a request for the Global Supplier is initiated which triggers the workflow notification to the MDM Data Custodian.

- The Workflow request follows the pre-defined steps to collaborate the different actors (Requestor, Data Custodians(Procurement/Finance/MDM)

- All mapped data is Interfaced to the Global Procurement system, Local ERP systems for remapping and the Global Reporting tool for spend analytics.

1.3   Scope & Goals of Project

The scope of the project is to build the new MDM system to replace the Legacy MDM and integrate the data across the enterprise applications.

- Replace Legacy MDM with Talend MDM
- Built interfaces from new system to SRM 7.0 & Teradata
- Build a User Interface for Mastering the Objects
- Build a mapping tool to map the local to Global items

The overall goals for this project include:

- Implement the Talend MDM system for Suppliers and Item Master Request, Approval and Mapping
- Replace the Interfaces to SAP and BI from MDM

2.0   Consulting Services

Core Customer Requirements: Below is the core customer requests identified for implementation of MDM across the Organization. These are the "must have" customer requirements for MDM product and services

- Able to search the Master data objects very fast and able to support or increase productivity of Buyers
- Require a reasonably short training time for Procurement users
- Able to provide increased flexibility for adding future requirements
- Able to provide system management functionality for Job scheduling and execution
- Able to provide parallel job servers for faster data processing
- Able to provide a stewardship console to address the data errors resolution
- Right skills for the resources working on the project
- Resources shall have experience in similar projects delivering MDM implementations

TimeLine: Starting from August 2012 below are the key activities

Requirement analysis (20 weeks):
- Analysis of Technical and functional requirements.
- Data mapping between Source and Target metadata.
- Create the migration plan and test cases based on System Requirement Specification document.

Design (40 weeks):
- Design the Process flow needed using Java, J2EE, PL/SQL, Talend DI and Web services Technologies
- Design the Batching, Metadata capture and View process needed for the Master data objects as required by the customer.
- Design the Application layer objects needed for the enterprise wide workflow.

Development & Test (64 weeks):

- Code the business logic using Business rules engine.
- Code the user interface Java, J2EE using ECLIPSE and JBoss Application server
- Build the user interface
- Unit Test all the components with test files provided by Company.
- Code management as necessary.

Resources needed:

Senior Software Engineers -2

Computer System Analysts -2

Programmers -4

IT Project Manager -1

Business Analyst/QA Analyst -2

3.0   Implementation Plan

Project Implementation timelines

High Level Project Plan	MONTHS							
Activities	2	4	6	8	10	12	14	16
Migration Plan								
Talend MDM Installation								
Artifacts Migration to New System								
Build additional requirements								
Data Migration								
Test, Revise & Maintain								
Deploy the Solution								