HiTecServ

Master Data Management

Introduction

IT and business work hand in hand resulting in consistency and perfection of the shared master data assets. Our services can help to define strategies and implement solutions to develop a single view of data and avoids expensive inefficiencies thereby supporting your business initiatives.

We help your organization create a uniform set of data on customers, product, suppliers and various other business entities from multiple IT systems. Through this service we help you improve data quality by ensuring that identifiers and other key data elements about these entities are accurate and consistent.

Master data management is important nowadays as business operations depend on transaction processing systems. The problem that most organizations face is that they don't have a clear single view of the data they require at the moment they need to. We help by creating a uniform set of data for the organizations.

"Master data management is the practice of defining and maintaining consistent definitions of business entities, then sharing them via integration techniques across multiple IT systems within an enterprise and sometimes beyond to partnering companies or customers"

— Philip Russom Ph.D. Industry Analyst, TDWI

Main challenges for an MDM solutions

Sponsorship: The senior management or level C executives must be completely aware of the importance, benefits and the objectives of the project.

Complexity: The organizations faces is complex data quality issues specially customer data and addresses from legacy systems.

Integration: To achieve uniformity in data, first we have to collect it from various software's and channels and then manage it properly. This is the moment that the concept of master data management is mainly challenged and executed.

Modeling: Generally organizations lack a data mastering model that is used to define primary and secondary masters. Also they lack in defining master data slaves because of which master data integration becomes complex. We understand that our master data management software needs to be agile and should adapt to changes in complex systems. An ambiguous and dormant master data model will only make things more complex and this is why it is important to define the various layers of the master data model for problem free integration.

Overlap: Organizations that store a large amount of data generally face issues with overlapping in master data, by storing same entities in several and separated systems.

Standards: In most of the cases, it is difficult to come to a common agreement on domain values that are stored across multiple systems, especially product data.

Governance: Most organizations face issues with poor governance of information that includes poor administration, ownership, and poor policies around master data which in turn leads to complexity across the organization. This leads to problems in smooth usage of data across the organization and the system does not function in the way it is supposed to.
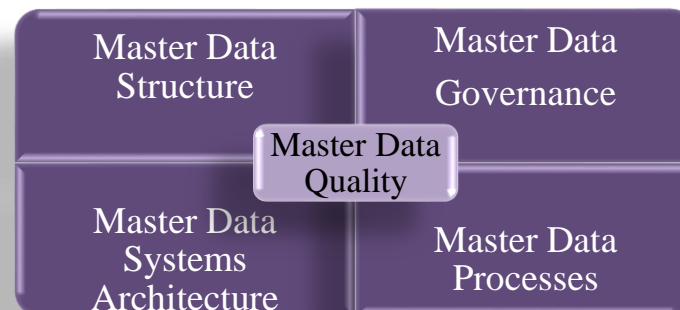
AitecServ Master Data Management Service

In AitecServ we help in building the architecture and implementing the solution by integrating 3 types of technologies namely:

- **Master Data Management Hub:** Here the data is prepared for standardization and treatment using different software and data management technologies.

- **Data Integration Solution:** In this part, we collect and process the data on the hub.

- **Quality Solutions:** Here we focus on three important tasks which are auditing, cleaning, and standardization.

We not only focus on the important aspects and solutions but also on the processes that influence the data management problems. Our master data management organizational aspects are demonstrated in the image below.

MDM Technical Components

Master Data Structure	Master Data Governance
Master Data Systems Architecture	Master Data Processes

Master Data Quality

MDM Organizational Components

Key Principals to Build effective Data Visualization

Define the Business Problem: In the very beginning of designing any solution to any problem, the most important part is to have a clear understanding of the problem. For example, in a business process that is making the data corrupt the instant solution is to clean that data but the ultimate goal should be to rectify the process so that the data does not get corrupt in the future. That's why we recommend linking master data management to business processes and applications in the very beginning. We recommend companies to think of a consumption-centric approach in which is identified who will need the master data and what kind of data they will need and at what point.

Plan Beyond Phase One to Ensure Success: Data management is like a journey, managing the data through various cycles. For proper data management, we define solutions in various stages which helps in delivering values to the business. Once a phase achieves its goal, the master data management is deployed to solve the next problem. Implementing Master Data Management at various channels helps in making sure that a balance is maintained and the system functions efficiently without impacting the other phase as all phases work independently.
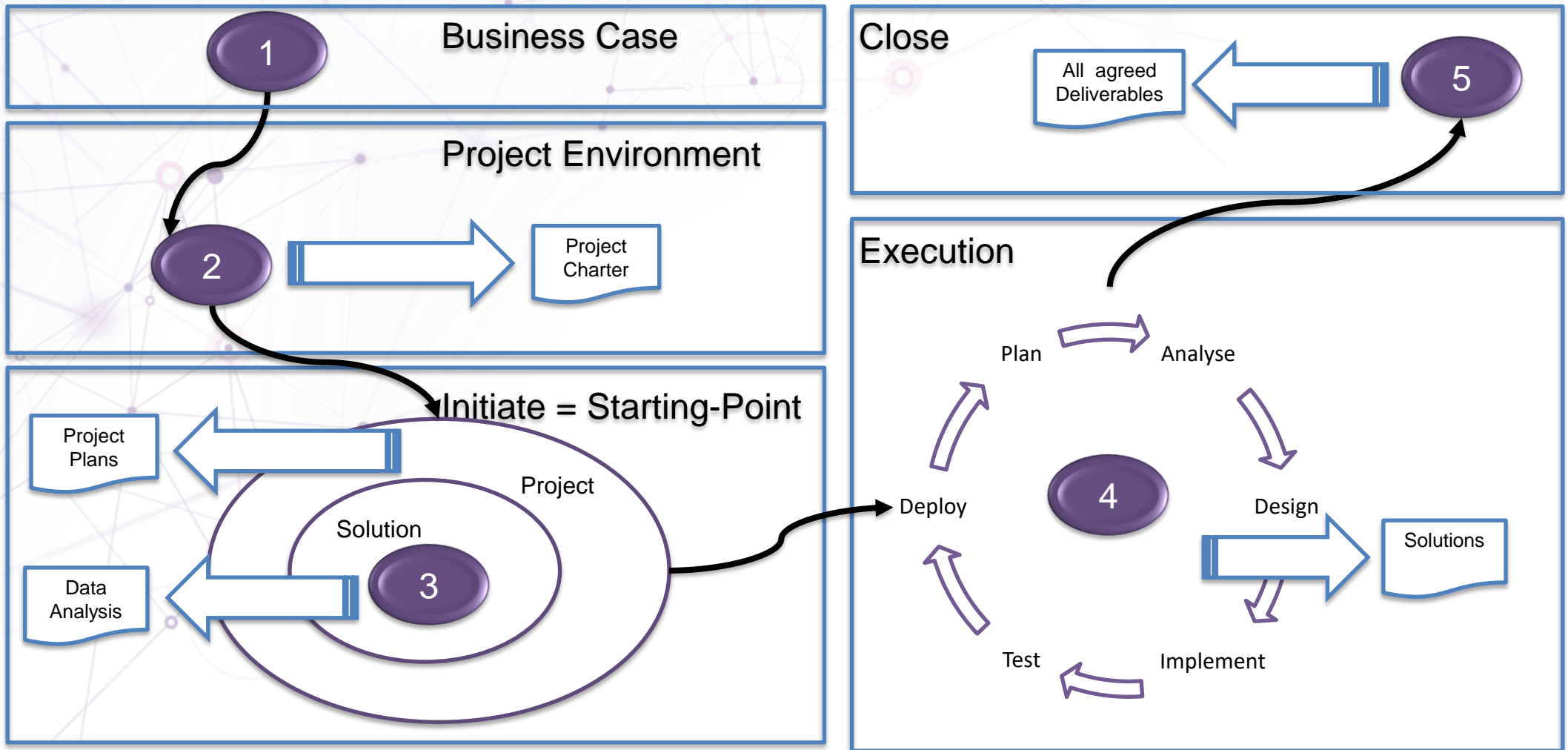
Have a Stewardship Strategy: With the updated use of technologies, the process of master data management is getting automated but we at AiTecServ believe that the concept of "set it and forget it" leads to degradation in the quality of data. The most typical situations where stewardship is needed, despite automation, are the need to manage the data which is changing in a way automation can't handle and information generated incompletely (which is a common issue). Incomplete information delays the further task causing an overall delay in the whole process.

Integrate MDM in the IT Systems Strategy: The best way to achieve the goal of efficient data management is to integrate MDM technologies into the IT systems. This process helps in achieving uniformity and consistency in data in the very beginning, ensuring that data is managed throughout the usage cycle.

Implement strong governance program for MDM: To achieve the goal of efficient MDM program, we should have complete control over every process. Having this control helps in managing the data properly which gets generated from various channels. This means identifying the users, sources of data and accesses and at the same time defining rules and policies for changes.

Embrace continuous improvement: Today's world is fast-changing and new technologies are emerging. We at AiTecServ are open to exploring new technologies that can benefit our customers and help them achieve their goals. By adopting new technologies, we aim at saving time and money to achieve goals, at the same time maintaining the organization core values and principles.

AitecServ Implementation Model (AIM)

Business Case

1

Project Environment

2

→ Project Charter

Initiate = Starting-Point

Project Plans

Data Analysis

Project

Solution

3

Close

All agreed Deliverables

5

Execution

Plan → Analyse

Deploy

4

Design → Solutions

Test ← Implement

AIM – Business Case & Project Environment

Business Case

- Identify Stakeholders (Key: Product Owner)
- Preparation/Identification of Business Case & Problem
- Project Vision
- High Level Requirements

Project Environment

- Understand the organization's change management process
- Identify and analyze the factors surrounding the project
- Identify compliance needs
- Capture assumptions, constraints and prior agreements

AIM – Starting Point

Management:

In this stage the main focus is to elaborate the several management plans. This projects normally require a very clear and detailed plans to ensure project success.

This kind of service is characterized by multidisciplinary teams and complex project management requirements.

Solution:

In this stage we will focus on analyse the business processes and systems that support them to determine the main data entities thru the different data sources and consequently identify the overlaping situations.

Management

- *Identify Major Deliverables*
- *Identify Risks*
- *Initial preparation of project plans*

Solution

- *Identify Main Entities*
- *Determine Data Sources*
- *Determine Data Overlaps*
- *Determinar Incomplete Data*

AIM – Execution

Management

- Monitor and control project objectives
- Manage the various project plans
- Manage Product and Sprint Backlog

Solution

- Implementation following AGILE principles
- first release of a pilot with a "Go-No Go"
- Incremental and interactive

Management:

The main task are to monitor and control the project objectives and performance, making the necessary adjustmens to keep the project on track.

Solution:

Our services follow preferentially an agile approach, providing in the first release a pilot version with the minimum valuable product for solution evaluation, address the expected objectives and to a refine the product backlog.

AiTecServ

Thank You!

For more information or to Schedule a meeting please contact us on:

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