

## Master Data Management

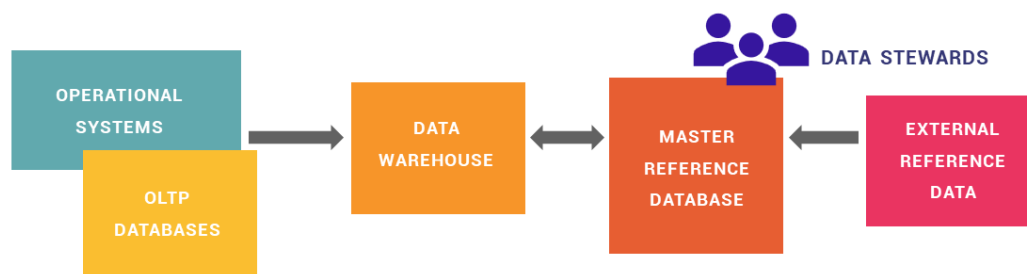
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Master data management (MDM) solutions **reconcile and manage 'golden records'** in an organisation, such as customers, accounts, products and suppliers (to name a few). When taking on an MDM challenge, the **primary decision** to make is on which side of the business to affect changes – the **operational** or **analytics** side.

Operational MDMs are **real-time** in nature and rely on **online service bus architectures (SOA)** and **custom back-end system integration**. These systems typically involve an **end-to-end rework** of both **operational IT systems** and the **business processes** they support.

The **benefit** of this approach is that **all data** is available for online consumption and the organisation can use it as a **driver for other digital projects**, such as mobile application development.

### ANALYTICAL DATA MASTER ARCHITECTURE



### Analytical Master Data Architecture<sup>1</sup>

A second approach, **Analytical MDMs**, are more appropriate for organisations that are focused on analytical outcomes. Analytical mastering involves **reconciling 'golden records'** from existing disparate source systems on a **batch basis**.

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<sup>1</sup> DAMA Data Management Body of Knowledge v2

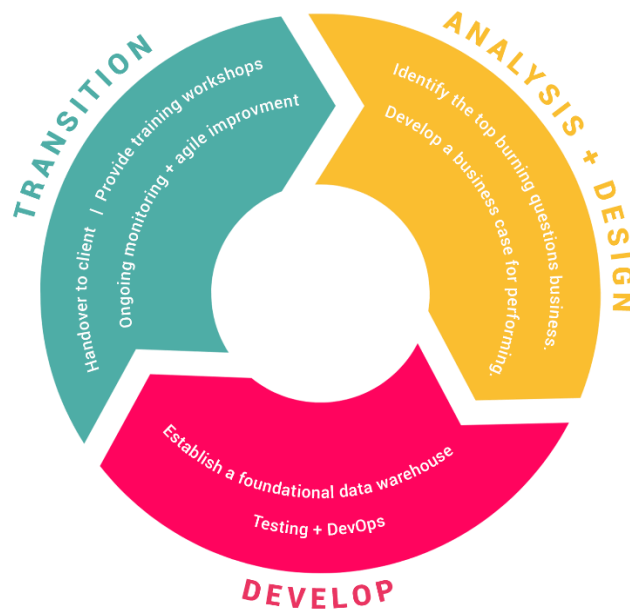
**Key benefits:**

- Low impact on operational source systems
- Resolution is made post-fact in the data warehouse

**Analytical MDMs** are a solid way to jumpstart an **Operational MDM** as it addresses the key step of consolidating and cleaning customer records.

The steps involved in undertaking an **analytical mastering solution** would be tailored to each client, but would generally entail the following **stages and steps**:

**1. ANALYSIS + DESIGN      2. DEVELOP      3. TRANSITION**



**STAGES**

**STEP**

**HIGH-LEVEL TASKS**

**1. ANALYSIS & DESIGN**

**1. Understand reference and master data management challenges**

1. Hold brainstorming workshops with business stakeholders
2. Identify and analyze business unit's key business entities (i.e. customers, accounts, products, suppliers, etc.)

<b>2. Define and maintain the data architecture</b>	<ol style="list-style-type: none"> <li>1. Diagram out the current state of data landscape</li> <li>2. Define a to-be integration architecture</li> <li>3. Update and maintain the existing organisation data architecture (as required)</li> </ol>
<b>3. Establish the 'golden record' definitions</b>	<p>Assess 'golden records' field requirements and meta data for each</p>
<b>4. Identify matching rules between entities</b>	<p>Assess differing system reference formats that will be used for matching purposes</p>
<b>5. Develop to-be data model</b>	<p>Assess any required hierarchies and relationships between entities</p>

## 2. DEVELOP

<b>1. Establish infrastructure</b>	<ol style="list-style-type: none"> <li>1. Provision server infrastructure</li> <li>2. Procure, install and license software. (Look to leverage existing software licences)</li> <li>3. Implement data connectors to internal and external sources</li> </ol>
<b>2. Source and consolidate 'golden records'</b>	<ol style="list-style-type: none"> <li>1. Stage and load 'golden records' from disparate source system</li> <li>2. Reconcile mismatched entities using data quality tools and through interactions with business users</li> </ol>
<b>3. Replicate and distribute reference and master data into a data repository</b>	<ol style="list-style-type: none"> <li>1. Implement updates to operational systems through data connections or API interfaces (as required)</li> <li>2. Publish master data and reference data to analytical systems</li> <li>3. Testing for both development and user acceptance testing</li> </ol>

## 3. TRANSITION

<b>Manage changes to reference and master data</b>	<ol style="list-style-type: none"> <li>1. Hand over the operation of the master data management system to business users</li> <li>2. Provide for end-user training</li> </ol>
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## Proposal / Call to action

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Ilion is looking to help financial services organisations **optimise their return of investment in data**, centred around financial products and services. Our executive team have extensive experience in financial analysis for banks, credit risk and stress testing, and data management.

**We see an overlap in these areas that provide a sweet spot for a return on investment made.**

When you are working on your next financial analytical undertaking, please don't hesitate to call us. We would be happy to help you find a solution that is optimal for your organisation.



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