

appMDMTM








Master Data Management



Problem

There are multiple challenges with traditional Master Data Management approaches. The products and processes are cumbersome to implement. They need many other add on tools and technologies for making the core MDM product to work. The MDM products are compartmentalized by domains such as: products, customers, suppliers etc. Most MDM solutions are tightly coupled with the vendor's own ERP products. It takes a long time for implementation mainly due to activities such as Analysis and Discovery for the Hub Data Model, Configuration and Development of the Hub, Creation of the workflow governance for Activation, and Approvals and Confirmation for create/update of the master data. Traditional MDM Products do not offer industry specific solutions for the master data attributes and inter dependencies of the attributes, which leads to a long time taken for the clients to create attribute mappings. Due to these shortcomings, many enterprises are apprehensive about implementing traditional MDM products for their businesses, even though they are fully aware of the benefits of MDM.

The value propositions:

-  Cloud Enabled.
-  Single Product solving all MDM challenges.
-  Accelerated implementation using templated approach.
-  Minimized data risks and Improved Security.
-  Improved data quality and data ownership.
-  Approval Workflows for assured data success.
-  Integrates with Oracle E-Business Suite, SAP, MS Dynamics, SFDC, Chain-Sys ERP, PeopleSoft, JD Edwards, Oracle Fusion Applications, and Oracle Cloud Applications.

Solution

Chain-Sys has critically analyzed the above problems and offers a complete MDM Product, appMDM™. appMDM™ focuses on and satisfies all the MDM processes. It is highly configurable and enables master data on-boarding and maintenance. appMDM™ provides industry focused templates for all verticals. The unique and powerful templated approach for Hub modeling and configuration helps you to create a complex Hub within hours rather than months. The Cloud enabled integration engine enables you to connect the MDM Hubs with Mobile, On Premise and Cloud Applications with no programming for both in bound and out bound transactions. The inbuilt features support high volume scalability and complex business validations for your data management needs. appMDM™ customers are getting full comfort with their master data quality and data governance policies, with the unique "Get Clean Stay Clean" preventive control approach. appMDM™ satisfies the end to end Master data management process and system needs.

Chain-Sys
Platform

Multiple Domain
Hubs

DM with
No Programming

Data Governance
Workflow

Data Quality
Management

MASTER DATA MANAGEMENT

A Single Source System is designated as the “System of Record” for Master Data.

appMDM provides “Central Data Hub” to process Master Data Maintenance Transactions (Add, Change, Archive, Purge).

A “Master Data Governance” group controls the Master Data Management process and safeguards the data.

appMDM consolidates master data from multiple sources into a Central Data Hub (Data Mart) using Data Quality Management features. The Data Hub allows consolidated reporting and query of master data, inventory, cost, and account balances etc.

Work Flow functionality supports data governance and approval processes and procedures.

Control of privileges at organization/object/attribute level ensures data integrity.

CHAIN-SYS PLATFORM

Chain-Sys provides a configurable Platform for users to create their Data Model, User Interfaces, and Business Validations for the MDM Hubs. The Platform automates the code creation for the MVC architecture. The Data Architects can create any complex Data Hubs using this platform rapidly.

Chain-Sys Platform:

The screenshot displays the appMDM web application interface. At the top, there is a blue header with the 'appMDM' logo on the left and a user profile 'DATAARCHITECT' on the right. Below the header, a navigation bar contains four tabs: 'Product', 'Contacts', 'Operation', and 'Custom'. The main content area shows three data hubs represented by circular icons with a central 'i' and surrounding tool icons. The hubs are labeled 'Test1', 'cdmitem', and 'ITEM_MDM'. At the bottom, a grey navigation bar contains five sections: 'Page design', 'Data Design', 'Data Transaction', 'Data WorkFlow', and 'Audit Information', each with its own set of icons. A footer at the very bottom reads 'Copyright © 2014 Chain-Sys Corporation. All Rights Reserved - Current Version: v2.1'.

The screenshot displays the appMDM interface. At the top, there is a blue header with the appMDM logo and a user profile icon labeled 'DATAARCHITECT'. Below the header, the page title is 'Page Administration'. The main content area is titled 'ITEM' and features a navigation menu on the left with various icons. The central part of the screen shows a table with 10 rows of inventory items. The table columns are: Sl.No, Field Name, Data Type, Field Type, Display Order, Edit, and Delete. The right side of the screen contains a 'PROPERTY SETTINGS' panel for the 'istockable' field, with various configuration options like Label Key, Data Type, Mandatory Flag, etc.

Sl.No	Field Name	Data Type	Field Type	Display Order	Edit	Delete
1	Stockable	String	SELECT	117		
2	Transactable	String	SELECT	118		
3	Revision Control (D)	String	SELECT	119		
4	Reservable (G)	String	SELECT	120		
5	Check Material Shortage	String	SELECT	121		
6	Lot Expiration Control	String	SELECT	122		
7	Shelf Life Days	int	TEXT	123		
8	Retest Interval	String	TEXT	124		
9	Expiration Action Interval	String	TEXT	125		
10	Expiration Action	String	LOOKUPPOPUP	126		

PROPERTY SETTINGS

- * Field Name: istockable
- Label Key: Stockable
- Data Type:
- Mandatory Flag:
- ReadOnly Flag:
- Display Flag:
- Style Class:
- Id Field:
- Unique:
- Entity Column: STOCKABLE
- * Display Order: 117
- * Max Length: 15
- Option Type:
- * Options: No/Yes
- * Option Value: NY
- Option Selected:

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MULTIPLE DOMAIN HUBS

appMDM provides complete flexibility on the Domains. It provides the following out of the box domains for Products (Products, BOM Structures, Formulas, Routing, and Recipe), Contacts (Customers, Customer Sites, Customer Contacts, Suppliers, Supplier Sites, Supplier Contacts, Employee and Employee Contacts) and Operations (Fixed Assets, and GL Code Combination). Designing a custom domain is easy. Users can create domain hubs for their specific needs with no programming efforts, by simple configurations. Chain-Sys strongly believes in the template based approach for creating Hubs. appMDM provides templates for all their standard domains against major applications such as: SAP, Oracle EBS, Oracle Fusion, JD Edwards, PeopleSoft, Microsoft and Chain-Sys ERP.

Build MDM Hub easily using Chain-Sys Platform:

ATTRIBUTE DETAILS

Echain_Item >
Echain_Supplier >
EBS_Item >
Formulas >
EBS_Formula >
EBS_Supplier >
Recipes >
EBS_Customer >

Main >
 Inventory >
 BillsOfMaterial >
 Asset Management >
 EBSCosting >
 Purchasing >
 Receiving >
 PhysicalAttributes >
 GeneralPlanning >
 MPS MRPPanning >
 LeadTimes >
 Work In Progress >

Inventory Item
 Stockable
 Transactable
 Revision Control (D)
 Reservable (G)
 Check Material Shortage
 Lot Expiration Control
 Shelf Life Days
 Retest Interval
 Expiration Action Interval
 Expiration Action
 Lot Control

SELECTED ATTRIBUTE

Inventory Item

Grade Controlled

Default Grade

Locator Control

Restrict Subinventories

Restrict Locators...

Default Material Status

Lot Status Enabled

Default Lot Status

Submit

Product Hub rapidly created using Chain-Sys Platform:

appMDM DATAARCHITECT

ITEM_MDM

SEARCH RESULT

* ItemName Paper Description Organization Q

Main Inventory **Bills of Material** Asset Management Costing Purchasing Receiving Physical Attributes General Planning MRP Planning Lead Time Work In Progress Order Management

Invoicing Process Manufacturing Service Web option

BOM Allowed (Z) Yes
Autocreated Configuration Yes
Create Configured Item, BOM

BOM Item Type STANDARD
Effectivity Control DATE
Match Configuration

Base Model Q
Configurator Model Type CONTANER

save

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appMDM DATA MANAGEMENT – NO PROGRAMMING, SIMPLE CONFIGURATIONS

Chain-Sys provides a state-of-the-art Data Management tool for configuring Migration and Integration objects. Chain-Sys offers the Industry Gold Standards: appMIGRATE and appINTERFACE tools for performing the Data Migration and Integration for MDM efforts.

The appMDM's Data Management solution satisfies complex data management needs such as: Data Profiling, Data Assesments, Data Synchronization, Change Data Capture, Data Harmonization, Data Visualization and Data Classification.

Outbound Interface to Consumer Application:

The screenshot displays the appMDM web interface for configuring an outbound transaction. The main configuration area shows the Source instance as 'base_mdm_user' and the Target instance as 'LANS_R12_1_3' with a loader of 'EBS_ITEM_LR2'. The interface is divided into three numbered sections: 1. Source and Target configuration, 2. Data Template Details, and 3. Mapping Results.

Extract Details

Item	Expand
A1	+
ACC103	+
ACC123	+
ACC390	+
ACC782	+
ACC91	+
ACCOUNT8	+
APRIL_DHW	+
APRIL	+

Data Template Details

- ITEM_MASTER
 - CDMPRDDIV
- REV
 - MDMP6D1

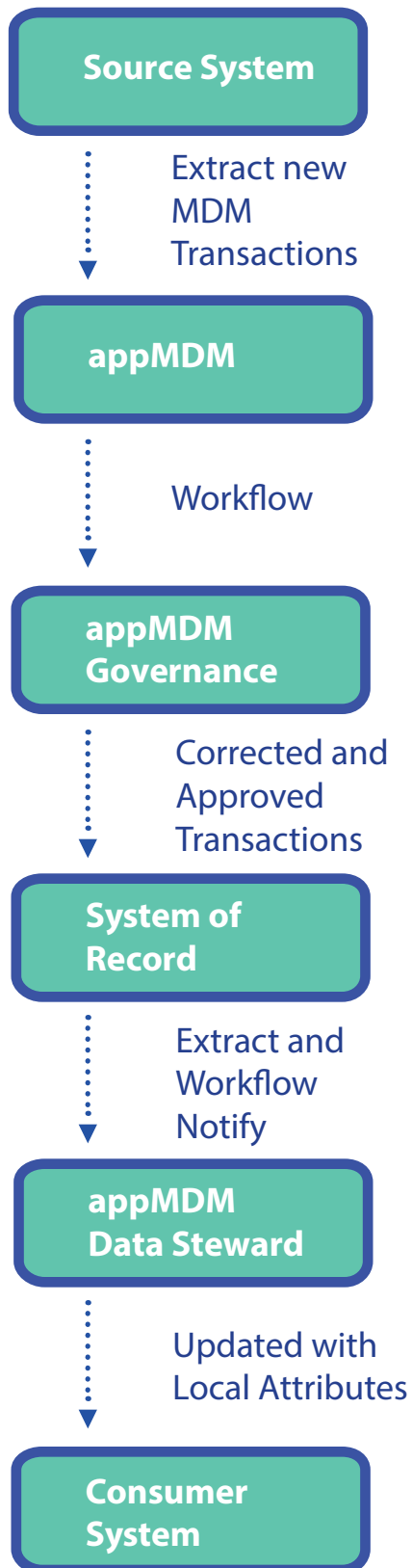
Mapping Results

Source Columns	Source Data Type	Destination Columns	Dest. Data Type	Delete
DESCRIPTIONEBS	V	DESCRIPTION	V	🗑️
ORGANIZATIONCODE	V	ORGANIZATION_CODE	V	🗑️
ITEM_NAME	V	SEGMENT1	V	🗑️
RETEST_INTERVAL	V	RETEST_INTERVAL	V	🗑️

Mapping Details

Source columns: 38 Remaining | Destination Columns: 303 Remaining

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DATA GOVERNANCE

“Work Flow functionality supports the data governance and approval processes and procedures”

Chain-Sys provides multiple roles to the MDM users such as: Operations, Data owner, Data Steward, Data Guardian, Data Architect etc. All these roles are used in configuring the workflow for any new Master Data introduction into the hub and also for processing the inbound master data that is interfaced from other Consumer Systems.

Establish a centralized Data Governance Organization to:

- ✓ Design and maintain the enterprise data model that supports desired business application landscape and capabilities
- ✓ Ensure that Data Management efforts (Business or IT) are accelerated and consistent with enterprise core process performance
- ✓ Accountable for data quality; resolve information and cross process issues
- ✓ Enforce global data rules and standards monitoring master data quality metrics and initiating corrective action Correct Pre-validation Errors
- ✓ Maintain an enterprise wide consolidated “data mart” for reporting , query and analysis

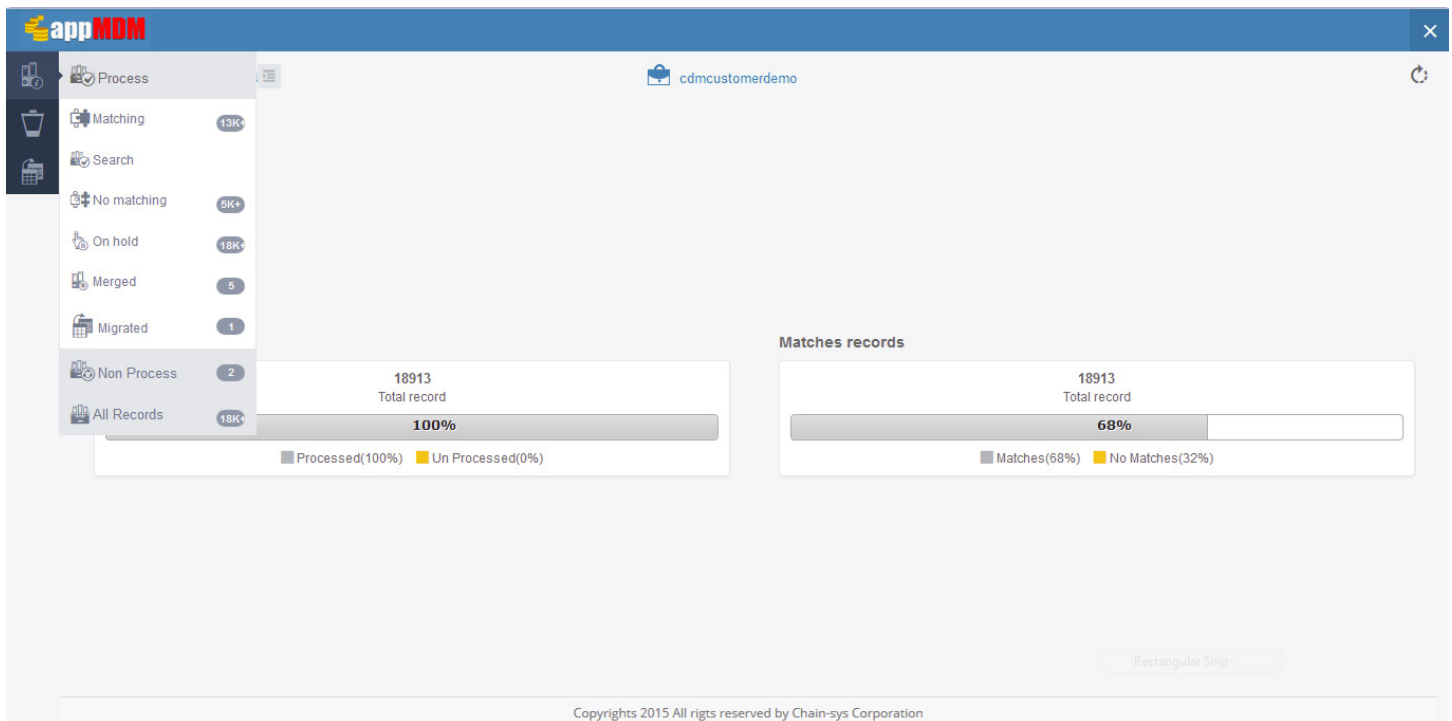
DATA QUALITY MANAGEMENT

appMDM’s Data Quality Management comprises Data Consolidation, Data Standardization, and Data Harmonization activities. Consolidating the data into the Hubs is a critical activity. The system collects data from multiple source systems and sends it to target MDM Hubs to perform Consolidation. Hadoop technology is extensively used. appMDM provides the “Matches”, and the Data Stewards or the Data Owners can classify the matches as “False Positive” or “False Negative” and perform the merge, drop or migrate actions.

Data Consolidation - Process Summary and Match/No Match Dashboard

Data consolidation engine is key for identifying duplicate data and consolidating them. Data harmonization is achieved using data cross referencing of merged data against parent data. The data consolidation engine uses multiple string based mathematical algorithms to identify the groups for de-duplicates. It also identifies matching percentage for the match records. The matching percentage should be equal or greater than the threshold percentage assigned to the consolidation project task. If the data comes up with less than the threshold percentage, the system marks them for No-Matches. Data owners get an opportunity to review the apMDM dashboard for the results of the consolidation project execution and can drill into the Matches and No-Matches data. They classify data for merge, migrate, drop and on hold. Figures below illustrate data consolidation. Main screen shows process summary results, and the Consolidation Results screen shows the results for sample Customer, "Alcoa". The results are used for merging, dropping and migrating. Data hierarchy for the Customer and Supplier data are also established.

Consolidation Main Page:



Consolidation Result for Companies related to "ALCOA":

The screenshot shows the appMDM interface with a table of consolidation results. The table has columns: SI.No, Row No, Source System, CUSTOMERNAME, On H..., Migrate, Drop, Merge, Merge With Ro..., No of Matching ..., No of Merged R..., Matc..., and Child. The data rows are as follows:

SI.No	Row No	Source System	CUSTOMERNAME	On H...	Migrate	Drop	Merge	Merge With Ro...	No of Matching ...	No of Merged R...	Matc...	Child
1	76	CDM_SALESFO...	ALCOA	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		14			
2	246	CDM_SALESFO...	Alcoa	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		14			
3	247	CDM_SALESFO...	Alcoa - Hatch Assoc. Consultants	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		6			
4	248	CDM_SALESFO...	Alcoa Fastening Systems	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		6			
5	249	CDM_SALESFO...	Alcoa Servizi Srl	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		5			
6	250	CDM_SALESFO...	Alcoa World Alumina	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		5			
7	251	CDM_SALESFO...	Alcoa of Australia Limited	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		6			
8	252	CDM_SALESFO...	Alcoa, City of, TN	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		1			
9	253	CDM_SALESFO...	Alcoa, TN, City of	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		4			
10	10197	CDM_ORACLE	ALCOA	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		16			
11	10198	CDM_ORACLE	ALCOA - HATCH ASSOCIATES CONSU...	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		6			
12	10199	CDM_ORACLE	ALCOA FASTENING SYSTEMS	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		7			
13	10200	CDM_ORACLE	ALCOA INC.	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		16			
14	10201	CDM_ORACLE	ALCOA TECHNOLOGY CENTER	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		5			
15	10202	CDM_ORACLE	ALCOA, INC.	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		10			
16	10442	CDM_ORACLE	Alcoa	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		16			
17	10443	CDM_ORACLE	Alcoa - HOWMET CORPORATION	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		5			
18	10444	CDM_ORACLE	Alcoa, TN, City of	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		6			

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Shows the results of the data consolidation for "ALCOA":

The screenshot shows the appMDM interface with a filter form and a table of consolidation results. The filter form has the following values: Consolidation Column Name: ALCOA, Source System: CDM_SALESFORCE, Row No: 76. The table has columns: SI.No, Row No, Source System, CUSTOMERNAME, Matching %, On Hold, Merge, Drop, and Migrate ... The data rows are as follows:

SI.No	Row No	Source System	CUSTOMERNAME	Matching %	On Hold	Merge	Drop	Migrate ...
1	246	CDM_SALESFORCE	Alcoa	100%	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
2	247	CDM_SALESFORCE	Alcoa - Hatch Assoc. Consultants	88%	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
3	248	CDM_SALESFORCE	Alcoa Fastening Systems	88%	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
4	249	CDM_SALESFORCE	Alcoa Servizi Srl	88%	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
5	250	CDM_SALESFORCE	Alcoa World Alumina	88%	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
6	251	CDM_SALESFORCE	Alcoa of Australia Limited	88%	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
7	10197	CDM_ORACLE	ALCOA	100%	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
8	10198	CDM_ORACLE	ALCOA - HATCH ASSOCIATES CONSULTANTS INC.	88%	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
9	10199	CDM_ORACLE	ALCOA FASTENING SYSTEMS	88%	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
10	10200	CDM_ORACLE	ALCOA INC.	88%	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
11	10201	CDM_ORACLE	ALCOA TECHNOLOGY CENTER	88%	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
12	10202	CDM_ORACLE	ALCOA, INC.	83%	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
13	10442	CDM_ORACLE	Alcoa	100%	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
14	10443	CDM_ORACLE	Alcoa - HOWMET CORPORATION	88%	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

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