ChainSys

dataZen™

Multi-domain

Master Data Management

Platform

Why DataZen?

- Master data quality & validations
- Master data governance
- Master data simplification
- Master data management
- Data enrichment & harmonization
- Seamless Integration with enterprise applications
- Human centric design & UX
- Supplier self service registration portal
- Cloud-based platform
- Enterprise data management
- Flexible 'Pay to use' pricing model

Key Features

2000+ pre-defined templates

Pre-defined data models for 40+ domains

Flexible & configurable workflows

Supports governance & compliance

Single source of truth for master data

Configurable screens for data creation

Reliable & sustained data quality

Reduced data risks

On-time cutover

Central data hub for reporting

Master Data Management Overview

Master data domains such as Customers, Suppliers, Products, and Chart of Accounts are the base on which the successful execution of business processes depends. Trustworthy, high-quality data, further drive business intelligence solutions to furnish the right data at the right time for your business leaders to make better decisions to effectively manage various aspects of the business efficiently.

The capability to identify, resolve, and continuously prevent data quality issues is of paramount importance for an enterprise to stay competitive in today's business world.

Chain-sys' cloud-based platform dataZen helps integrate multiple data sources into a single source of truth, and constantly identify and resolve data quality issues to help enterprise data 'Get Clean', and 'Stay Clean'.

Master Data Management Process
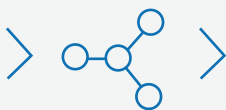
identify > Define Hub > Profile Data > Cleanse Data > Consolidate Data > Harmonize Data

Supported Endpoints

Oracle eBS® 11i & R12

Oracle Cloud Applications

SAP® R/3, ECC6 & S/4HANA

Salesforce® (SFDC)

JDEdwards®

Siebel®

Microsoft Dynamics®

PROCORE®

Any ERP

XLS, CSV, XML Data Sheets

Interfaces With

Web Services/APIs/BAPIs

XML/SOAP

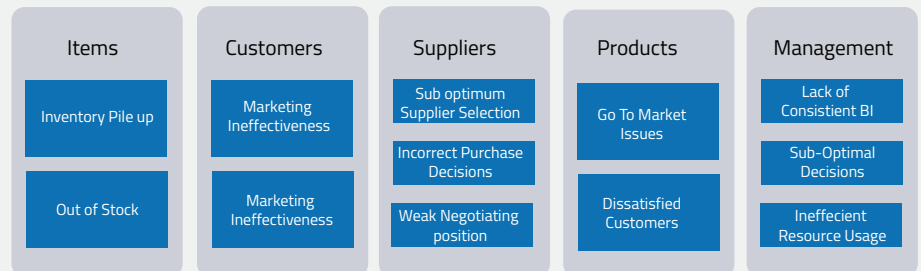REST, JSON

OData

Webhooks

IoT (Machine data)

Database Level

File systems

Impact and Importance of Data Quality

Data must be Clean, Correct, Complete and Consistent to be considered Quality data. All ERP systems have Master Data, Setup or Configuration data and transactional Data. Master Data represents the key data such as Customer, Supplier, Product and so on, that rarely changes, but drives the majority of the transaction data that records the day-to-day business of the enterprise.

Items	Customers	Suppliers	Products	Management
Inventory Pile up	Marketing Ineffectiveness	Sub optimum Supplier Selection	Go To Market Issues	Lack of Consistient BI
		Incorrect Purchase Decisions		Sub-Optimal Decisions
Out of Stock	Marketing Ineffectiveness	Weak Negotiating position	Dissatisfied Customers	Ineffecient Resource Usage

Often, data that has been cleansed for go-live becomes corrupt over the course of a few months. The data cleansing effort during migration and go-live cannot ensure the quality after go-live when business transactions pick up momentum, and as new master data gets added. It is wise to not only clean data for go-live, but also to keep data clean after it.

Quality issues may cause problems in totally unexpected areas of the business. For example, duplicate product data may lead to inventory pile-up or an inventory shortage. Incorrect, incomplete or duplicate Customer data might result in an ineffective marketing campaign and thus result in poor sales performance. Effectively, bad data hinders analytics, reporting, and effective decision making.

dataZen™

dataZen - Overview

dataZen™ iis a Cloud-based Master data management Platform that enables a configurable approach to better data quality, better governance & a single source of truth for master data using **pre-configured templates, a no-programming approach, a built-in Data quality engine, and a consolidated data hub.**

Here are some of dataZen's® top features:

- **750+** master data templates, out of 2000+ overall
- Supports Single or Multiple Source Systems
- Can be designated "System of Record" for Master Data.
- Provides a "Central Data Hub" to process Master Data Maintenance Transactions
- Consolidates master data from multiple sources into a Central Data Hub (Data Mart).
- The Data Hub allows consolidated reporting and query of master data
- Workflow functionality supports data governance and approval processes and procedures.
- Control of privileges at the organization/object/attribute level ensures data integrity.
- Simplified front-end screens for data creation that replicates an ERPs function, but far easier to use
- Data encryption, data masking & industry standard security practices to **keep data safe in rest and in motion.**
- **Scalable** upto 1 billion records.

Central Data Hub & Data Model Design

Companies dealing with constant acquisitions, mergers, amalgamations, divestitures etc., could see the addition of a lot of data silos. When the master data is heavily duplicated, the organization ends up having multiple sources with varied values for the same truth. Arbitration becomes unavoidable when it comes to which is the real master data, and what is the single source of truth that management can quickly turn into reports for the investors and shareholders.

dataZen helps by connecting the multiple sources into a single HUB, taking the most important first step to rationalize the data, irrespective of the source, to enable measuring all the data using the same yardstick of quality.

dataZen design platform provides options to support a wide range of ERP systems as the data source, to configure Data Models quickly using more than 2000 pre-defined templates making the mapping across multiple ERP systems a lot simpler. dataZen also supports various transformations that can be applied on the extracted data, and with its intuitive UI screen design workbench, adds the power to quickly enrich the data inside the Central Hub itself.

An example of how a 'Data Model' for Customers in SAP is created is shown below:
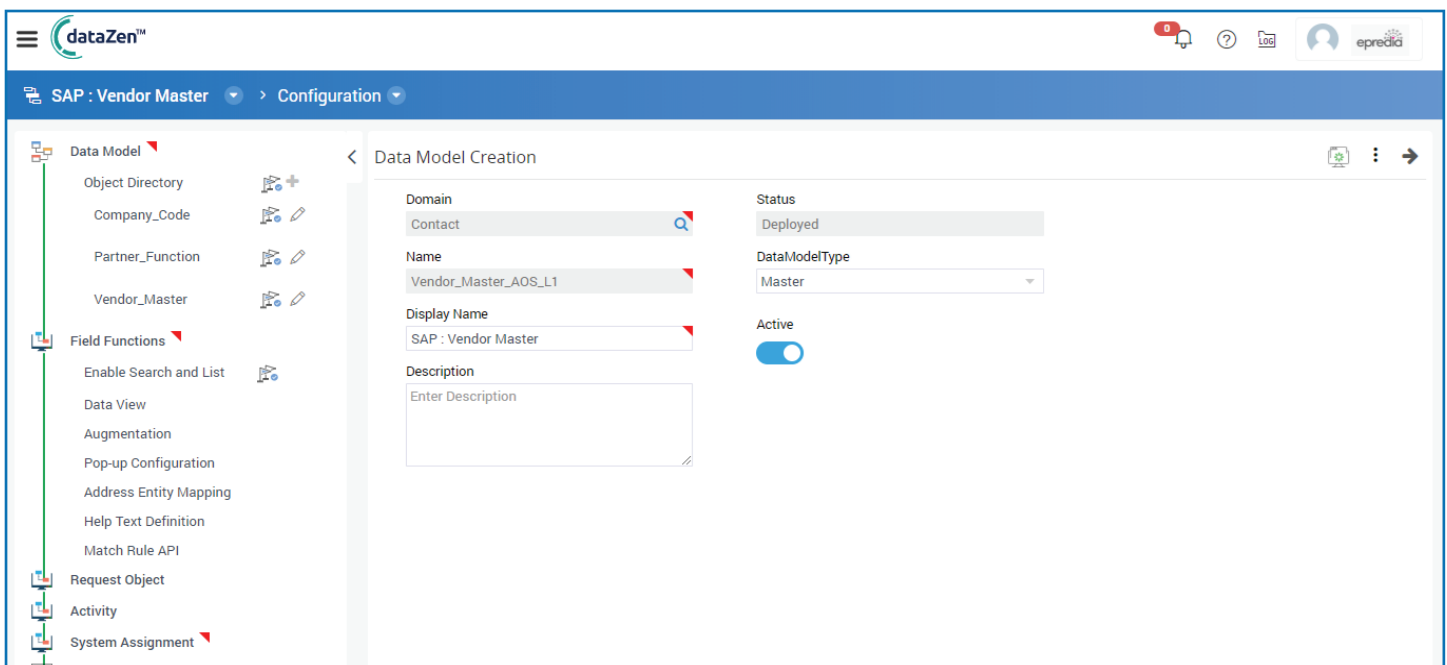
An example of a 'pre-configured template' for SAP Customer master is shown below. The pre-defined templates contain all validations, mappings and attribute characteristics built-in.
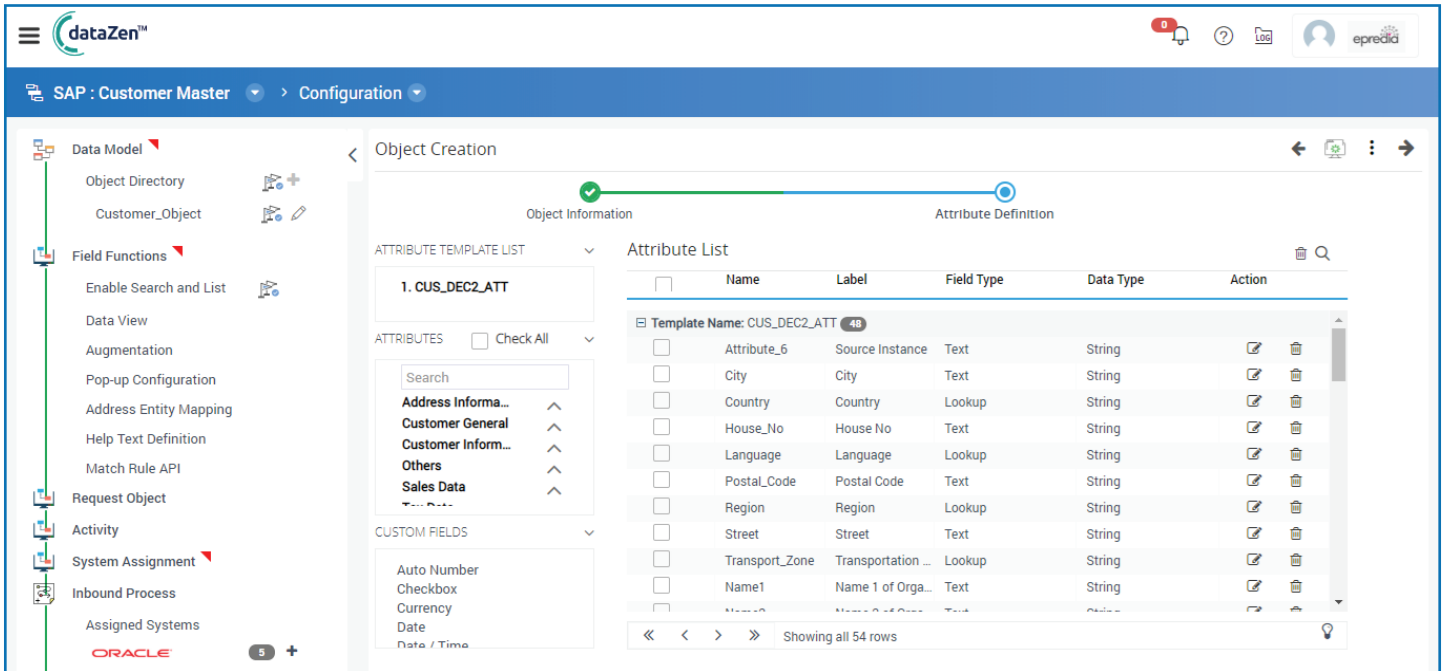

dataZen's Data Profiling, Assessment, Cleansing & Consolidation

Data Profiling is the first step to understanding and improving data quality, and data quantity. Profiling helps understanding data challenges early in your data intensive project, avoiding surprises at a later stage. Data profiling analyses the content, structure, and relationships within data to uncover patterns and rules, inconsistencies, anomalies, and redundancies.

dataZap's business rules engine supports creation of on the fly data profiling rules, to segregate the data in different segments for further analysis and cleansing. Data profiling can be performed on the inbound data to identify and remove unwanted data thereby reducing the data volume, facilitating further exploration of data quality issues.

Here's an example of what Data profiling results can look like:
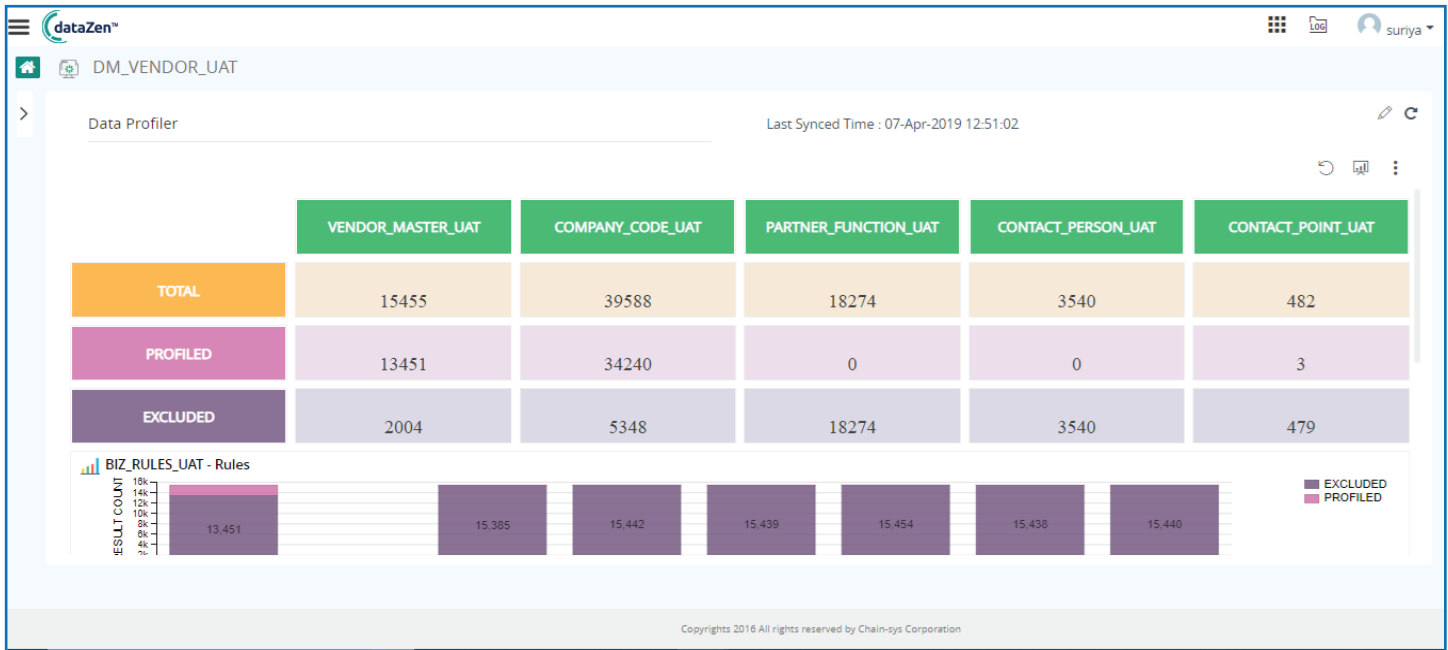
Data Assessment

dataZen® enables you to do a whole range of assessment of data quality for each field in the master data. Completeness Analysis, Uniqueness Analysis, Value Distribution Analysis, Range Analysis and Pattern Analysis are some of the features of dataZen®.

Data Cleansing

Data Cleansing or Data Scrubbing is the process of detecting and correcting (or removing) corrupt or inaccurate records from a record set, table, or database. dataZen® helps identify incomplete, incorrect, inaccurate, irrelevant, etc. parts of the data, and replace, modify or delete the dirty data, by providing an easy to use business rules engine.

Data Consolidation or Match & Merge

dataZen® provides a list of matches with potential duplicate data from multiple sources. The Data Steward and the Data Owners can classify the matches as "False Positives" or "False Negatives", and choose to perform merge, drop or migrate options for matches. dataZen® standardization using Dun & Bradstreet or USPS databases.

The match & merge screen appears as below, shown here for Customer data in an SAP application:
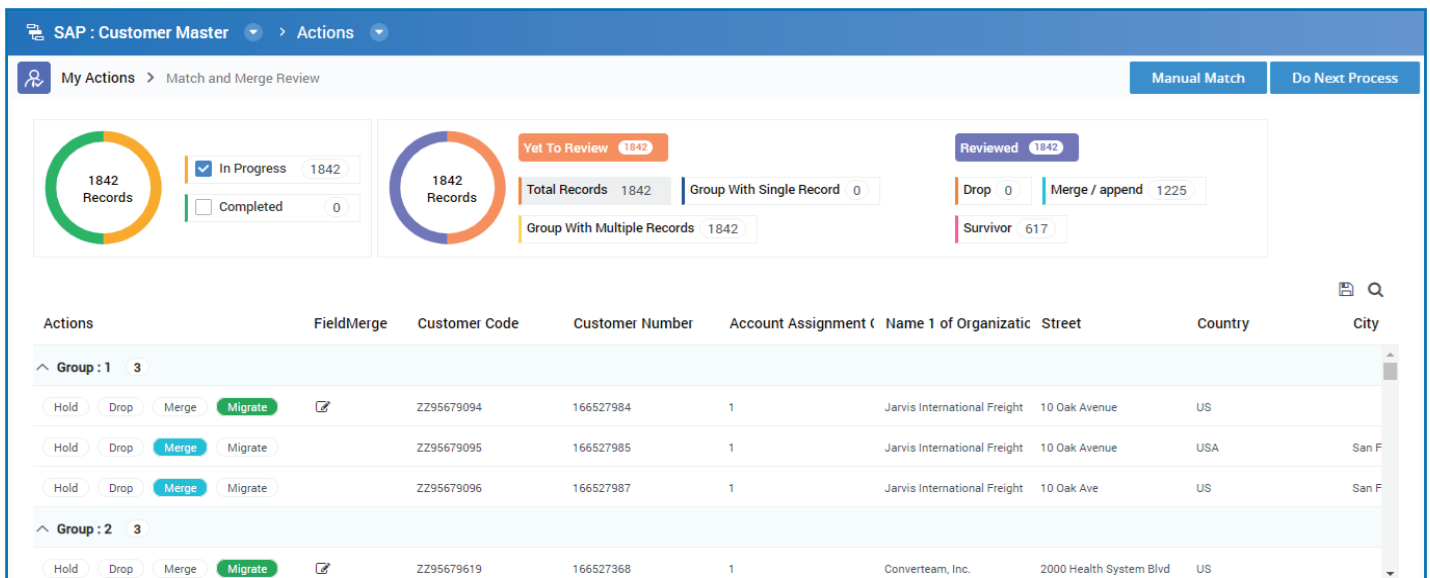
dataZen's Data Governance & Workflow

dataZen workflow functionality supports data governance and approval processes. Roles like Data Operator, Data Owner, Data Steward, Data Guardian, Data Architect are used in configuring workflows that will be applied to all inbound master data automatically. In general, the MDM workflow contains one or more of the following Data Quality Management (DQM) tasks.

Shown below is a governance dashboardindicating number of pending requests for Customer creation (left), and customer enrichment (right). Users drill down on the dashboard and either approve or reject requests.
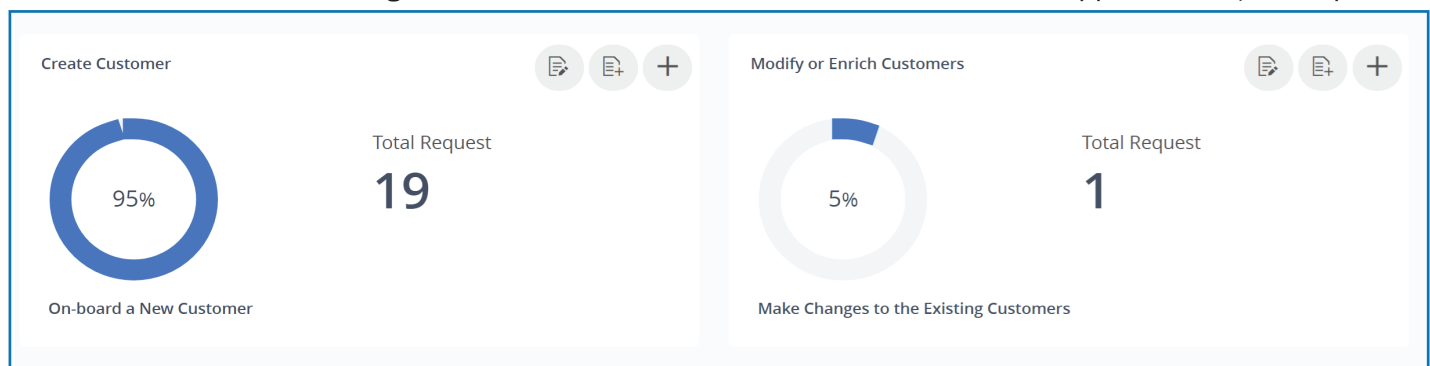
A workflow can have multiple steps, and can be customized to suit business specific hierarchies. An example of the various steps and roles in a workflow is shown below:
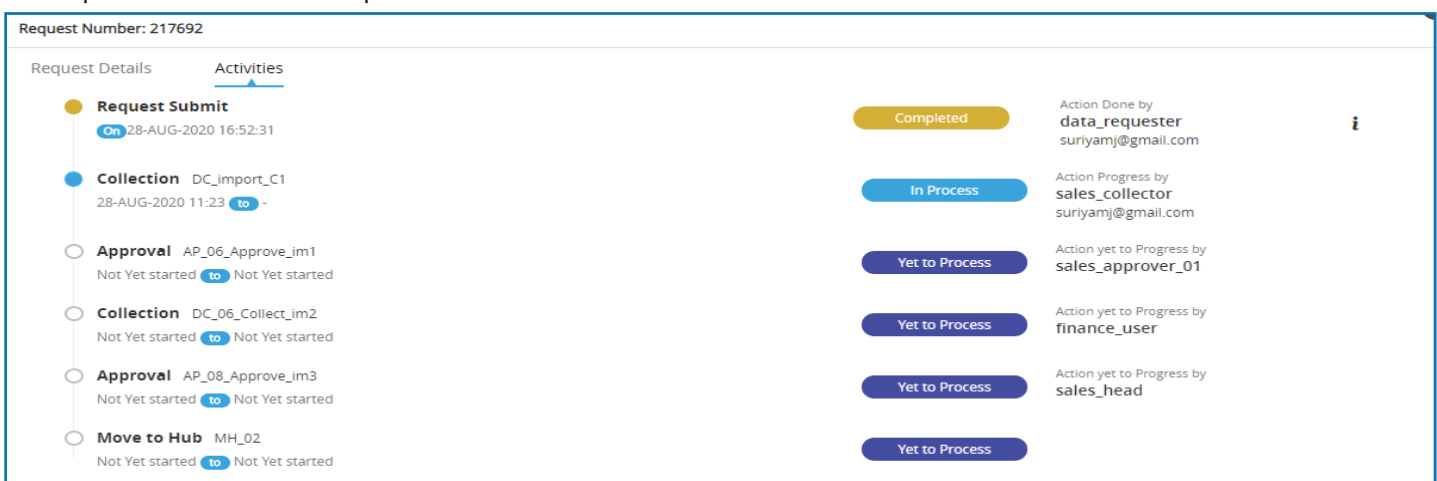
Executive Summary

It is essential to continuously control and maintain the data quality of the master data repository of any enterprise in order to ensure the quality of business intelligence, management reporting and reliable decision making.

dataZen® provides end to end Master Data Management capability to configure and onboard master data from any number of source systems into the Central Hub. It also provides a platform to enrich the data, and to define workflow to enable your Enterprise systems deliver most accurate results.

> **For Case studies, references, or a no obligation trial & proof of concept,
> Visit us at chainsys.com/datazen**

About Chainsys

A Data Management innovator since 1998, best known for its Smart Data Suite of Data Management Tools, Chain-Sys is a leader in the data migration, integration & MDM areas. Chain-sys has successfully deployed its Smart Data Suite in several Fortune 500 companies worldwide, and continues to grow and innovate rapidly. Headquartered in Lansing, MI, and spread across 5 continents, Chain-Sys prides itself on its Product, Process & People which constantly push the envelope on innovation & creativity.

For More Information, Visit:
http://www.chainsys.com/datazen

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One Platform for your

End to End Data Management needs

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dataZap™

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Data Reconciliation
Data Integaration

dataZen™

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Analytical MDM

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Data Catalog
Data Security & Compliance

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