dataZen

Supplier Data Management

dataZen™ Whitepaper

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VP & CIO, Chain-Sys Corporation.
ChainSys Corporation

Former CIO for Dawn Food Products For 13+ years. 25+ years experience with a variety of ERP systems. Extensive experience in system migrations & conversions. Participated in 9 acquisitions ranging from a single US location to 14 sites in 11 countries. Author of numerous technical books, articles, presentations, and seminars globally.

Featured Domains

dataZen™

Products	**Customers**	**Suppliers**
Equipment	**Finance**	**Hierachies**
Bills of Materials	**Formula**	**Receipe**
Routings	**Pricelists**	**Custom**

Supplier Data
Management

Supplier Data Management (SDM) enables you to keep a "Single Source of Truth" for all your Supplier, Addresses, Contacts, Sites, Purchasing, Company and other data. It offers data quality solutions to "Get it Clean" and "Keep it Clean" of Suppliers data. The flexible data governance workflow enables you to govern the Supplier's lifecycle from Onboarding to making additional changes in the most efficient quickest manner. More importantly, Supplier 360 is available to achieve insightful data around Suppliers and related transactions such as Requisitions, Purchases, Receipts, AP Invoicing, AP Payments, Supplier Supplier Quality, On-time delivery, Service Tickets, Purchasing Contracts and Supplier Ranking/ Optimizations.

Why use Supplier
Data Management?

Realize the Zen of **Single Source of Truth**	**Clean and Complete** Supplier data tready	**ML simplifies** Collection, minimal manual errors	**Simplify** Supplier Onboarding process
Improve **Supplier experience**	Sell more using **eCommerce**	Enhance Governance **Collaboration**	Achieve the **80/20 rule**

Smart Data Platform™

Supplier Data Management
Powerful offerings

## Supplier Data Cleansing : Get it Clean and Keep it Clean

Usecase1: Existing Customer data in SAP or Oracle or other enterprise applications are Bad. Need to cleanse and apply the changes back to enterprise Application.

Usecase2: Migration of Legacy applications to the Modern Enterprise Applications. Part of this exercise would like to Consolidate, Cleanse and Standardize the Customer's and Partner's data and then migrate.

Usecase3: After migration into the modern application, want a Single Source of truth using a clean Governance process for onboarding new prospects and customer accounts, and making changes to the complex customer data either small or bulk quantity easily. Enforce SLA for all activities and measure it. Want to keep the data always clean, setup active and passive governance policies to correct the problems with Human approval and sometimes automated as well.

ChainSys dataZen solves your data quality problems completely by applying advanced machine learning algorithms. Strong background data quality engine is the magic wand for your success. ChainSys has cleansed successfully data for major enterprises including: General Electric, Siemens, Expedia, Amazon, Canon, Agilent Technologies to name a few of the 500+ projects accomplished so far.

Our Goal is to create a "Clean Data Enterprise".
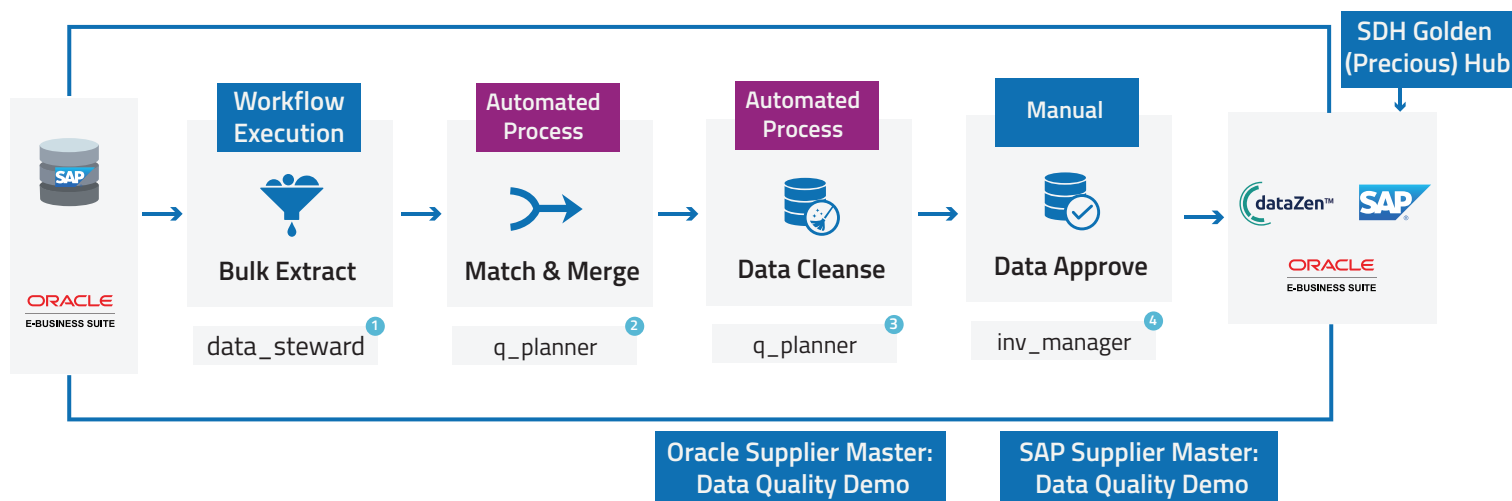
Screen Shots:

Match and Merge Review and Approve Workbench
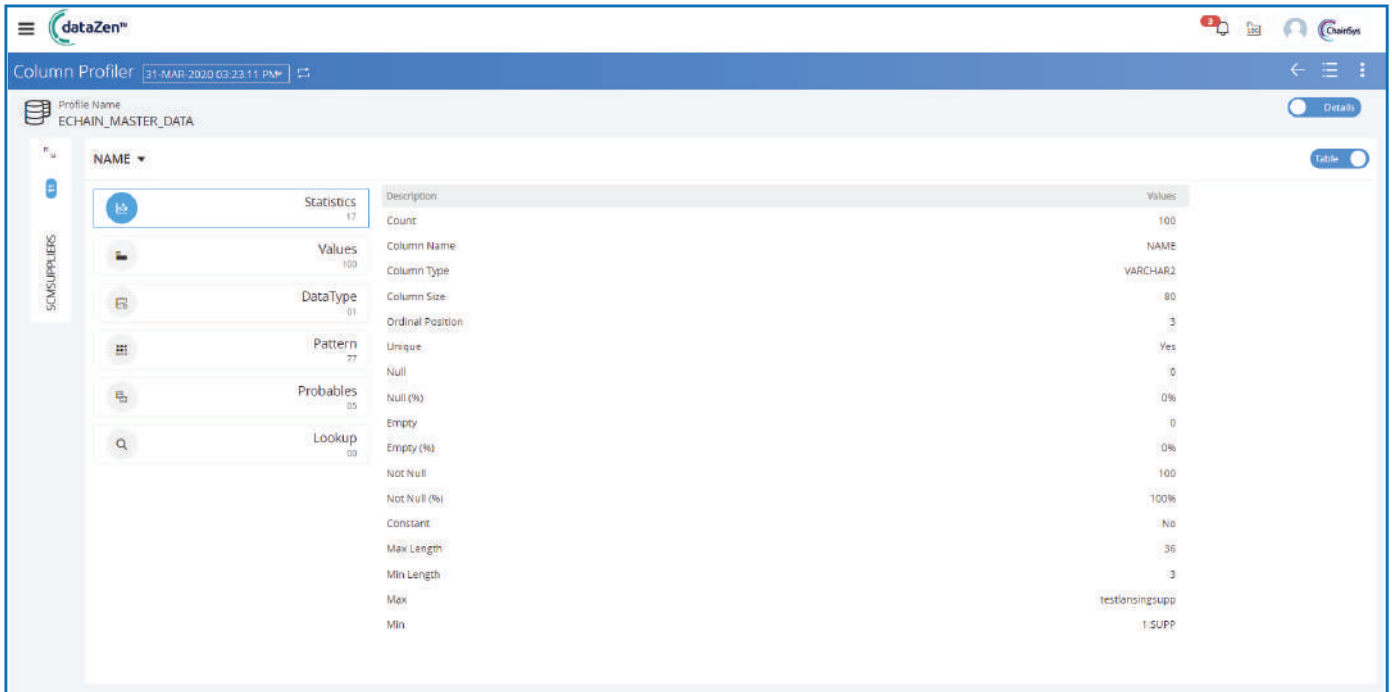
Identify the Incomplete Data: Data Profiling Output

PSTLZ (Postal Code)	
Desription	Value
Count	32698
Unique	NO
Null	0
Null%	0%
Empty	4063
Empty%	12%
Not Null	28635
Not Null %	88%
Constant	NO
Max Length	10
Min Length	0
Max	YO090 1 WR
Min	

ORT01(City)	
Desription	Value
Count	32698
Unique	NO
Null	0
Null%	0%
Empty	158
Empty%	0%
Not Null	32540
Not Null %	100%
Constant	NO
Max Length	8
Min Length	0
Max	ZEELAND
Min	

General Data : (Example)

County is not maintained for 4 Suppliers

City is not maintained for 158 Suppliers

Postal Code is not maintained for 40505 Suppliers.

Region is not maintained for 9040 Suppliers.

Search Term is not maintained for 501 Suppliers

Telephone is not maintained for 1750 Suppliers

Fax Number is not maintained for 2874 Suppliers.

Identify the Inconsistency and Conformity – Data Profiling Output

Supplier	Name 1	Street
22501345	AVPN Industries LTD.	P.O. Box 127
26510565	Bright Lights (Chesterfield) Lim	Hardwick View Road
26514560	Delight Chemical Corporation	Tenax Road
23514655	North Penn Tooling Ltd	Unit 1-2 Atlas Place
45800354	Sam Myung Corp	201 1506 Chunui Technopark 11
56800234	Castle Incorporated - EP10036	Box 671 - 245 Freight St
45800273	Castle Corporate Sol.	1401 Blake Street
12800677	Viber Investements LLC	Box 671 - 245 Freight St
77800245	Chemtrade Co Ltd	75 Wen Chang East 2 Street

Supplier	Telephone1	Fax Number
34502417	085/80401	APP 085/8091874
56502671	OLD**011/9048333	011/9048263
23505798	94144508632	NON OPERATION
55407746	ESOXNO	0040 24953218301
56707981	0424/57058323	NON HANEST FAXI
78511278	STEFAN CARL	
90513182	N18770523279/CA...	
34515401	SOPHIE	

Identify the Duplicate Data – Matching Algorithm Output

- 7 Columns are considered
  as criteria to identify duplicates

- Example

Vendor General Data
Account Group
Name 1
City
Postal Code
Region
Street
County

Vendor	Postal Code	Region	Account Group	Name 1	Country	City	Street
122501	85248	AZ	0002	Intel Corporation	US	Chandler	4500 South Road
122672	85248	AZ	0002	Intel Corporation	US	Chandler	4500 South Road
127833	85248	AZ	0002	Intel Corporation	US	Chandler	4500 South Road
128974	85248	AZ	0002	Intel Corporation	US	Chandler	4500 South Road
120285	85248	AZ	0002	Intel Corporation	US	Chandler	4500 South Road

Remediate the Duplicate Data – Merging Business Rules at Field Level

Remediate the Incomplete Data – Data Cleansing through Business Rules at Field Level

Remediate the Data Standards – Data Standardization through Standardized API's
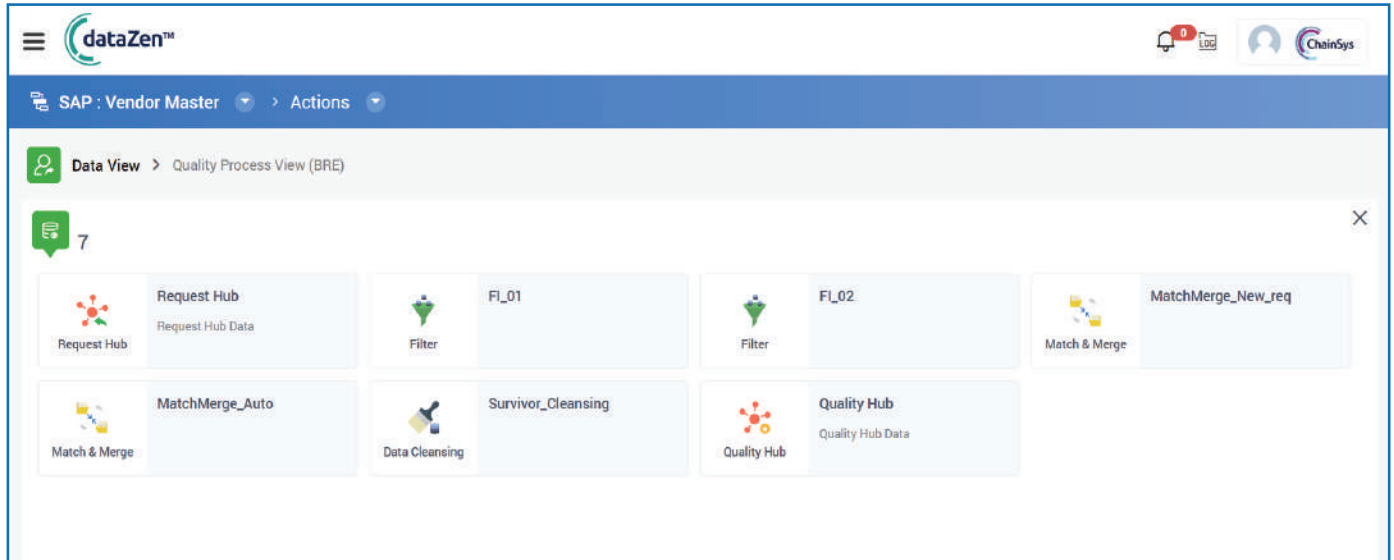
Holistic Data Quality Remediation Process Flow

Clear Data Quality Results: Filtered Data Review

Clear Data Quality Results: Match and Merge Results

Sl.No	MDM_VENDOR_REF	NAME	COUNTRY	INCOTERMS1	CITY	Group Number	Matching Percentage	Status
1	152439531	ZIO TECHNOLOGIES LLC	US	CFR	San Diego	15893814922290	100	EXCEPTIONAL
2	152439530	ZIO TECHNOLOGIES LLC	USA	CFR	San Diego	15893814922290	100	EXCEPTIONAL
3	152439529	ZIO TECHNOLOGIES LLC	US	CFR	-	15893814922290	100	EXCEPTIONAL
4	152439260	Arturo Guerrero Hernan...	US	CFR	-	15893814922531	100	EXCEPTIONAL
5	152439262	Arturo Guerrero Hernan...	US	CFR	New Jersey	15893814922531	100	EXCEPTIONAL
6	152439261	Arturo Guerrero Hernan...	USA	CFR	New Jersey	15893814922531	100	EXCEPTIONAL
7	1524391152	EGYPTIAN INTERNATI...	USA	CFR	Pittsburgh	15893814922532	100	EXCEPTIONAL
8	1524391153	EGYPTIAN INTERNATI...	US	CFR	Pittsburgh	15893814922532	100	EXCEPTIONAL
9	1524391151	EGYPTIAN INTERNATI...	US	CFR	-	15893814922532	100	EXCEPTIONAL
10	1524391091	Cypress Landing.	USA	CFR	Miami	15893814922543	100	EXCEPTIONAL
11	152439233	Cypress Landing.	US	CFR	-	15893814922543	100	EXCEPTIONAL
12	1524391092	Cypress Landing.	US	CFR	Miami	15893814922543	100	EXCEPTIONAL
13	152439404	Perth Bicycle Store	USA	CFR	Miami	15893814922554	100	EXCEPTIONAL
14	152439403	Perth Bicycle Store	US	CFR	-	15893814922554	100	EXCEPTIONAL
15	152439405	Perth Bicycle Store	US	CFR	Miami	15893814922554	100	EXCEPTIONAL
16	152439827	Douglas Asphalt Comp...	US	CFR	-	15893814922555	100	EXCEPTIONAL
17	152439828	Douglas Asphalt Comp...	USA	CFR	Chattanooga	15893814922555	100	EXCEPTIONAL

Clear Data Quality Results: Data Cleansing Results

Sl.No	MDM_VENDO	Street Name	Street Name	House NO_N	House NO_O	Title_New	Title_Old	City_New	City_Old	Country_New	Country_Old	Postal Code_	Postal Code_
1	159038146	Elk Grove Ro...	8475 Elk Gro...	8475	-	Company	-	New York	New York	US	US	10292	10292
2	159038897	Illinois Avenue	4455 Illinois ...	4455	-	Company	-	Provo	Provo	US	US	84606	84606
3	159038480	Horatio Drive	741 Horatio ...	741	-	Company	-	KIBBEE	KIBBEE	US	US	30474	30474
4	159038977	Whipple Ave...	3455 Whippl...	3455	-	Company	-	San Mateo	San Mateo	US	US	94401	94401
5	159038450	Centerville R...	26 Centervill...	26	-	Company	-	Cleveland	Cleveland	US	US	44034	44034
6	159038623	Oak Avenue	10 Oak Aven...	10	-	Company	-	San Francisco	San Francisco	US	US	94100	94100
7	159038477	Greentree La...	180 Greentre...	180	-	Company	-	VIDALIA	VIDALIA	US	US	30474	30474
8	159038464	Whipple Ave...	3455 Whippl...	3455	-	Company	-	San Mateo	San Mateo	US	US	94401	94401
9	1590381057	Health Syste...	2000 Health ...	2000	-	Company	-	Redwood City	Redwood City	US	US	94065	94065
10	159038936	Rock Harbor ...	123 Rock Ha...	123	-	Company	-	ABERDEEN	ABERDEEN	US	US	94404	94404
11	159038421	Little Pawtux...	10348 Little ...	10348	-	Company	-	Columbia	Columbia	US	US	21044	21044
12	159038747	Twinstown A...	388 Twinsto...	388	-	Company	-	Gary	Gary	US	US	46401	46401
13	159038140	Rosewood H...	3401 Rosew...	3401	-	Company	-	Redwood City	Redwood City	US	US	93228	93228
14	159038158	Sepulveda Bl...	1022 Sepulv...	1022	-	Company	-	Atlanta	Atlanta	US	US	30010	30010
15	159038546	Elm Street	13460 Elm S...	13460	-	Company	-	New Jersey	New Jersey	US	US	08830	08830
16	159038327	South Wacke...	233 South W...	233	-	Company	-	Chicago	Chicago	US	US	60606	60606
17	159038505	Satellite Drive	1800 Satellit...	1800	-	Company	-	Chattanooga	Chattanooga	US	US	37401	37401

Data Validation/ Verification Results: Reconciliations Output
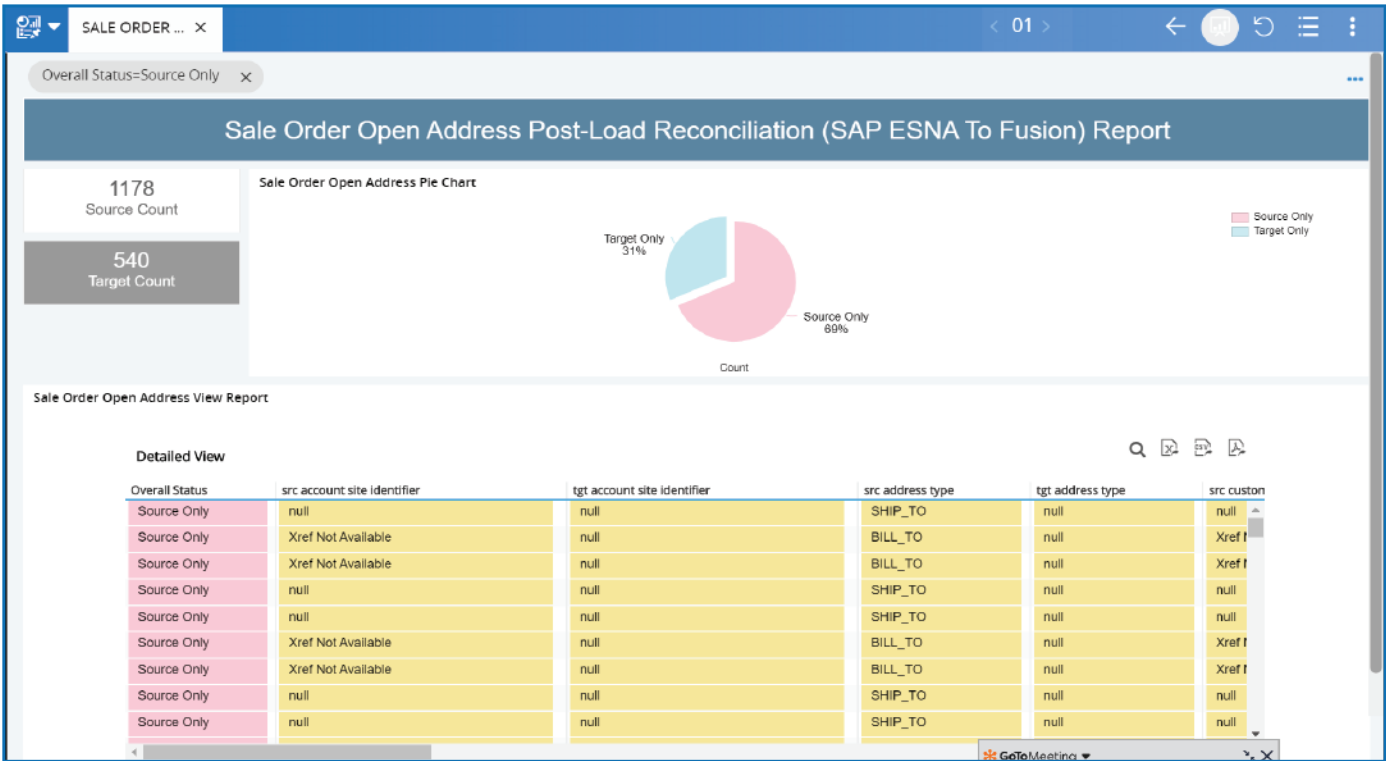
Data Validation/ Verification Results: Automated Testing using RPA Based BOTs
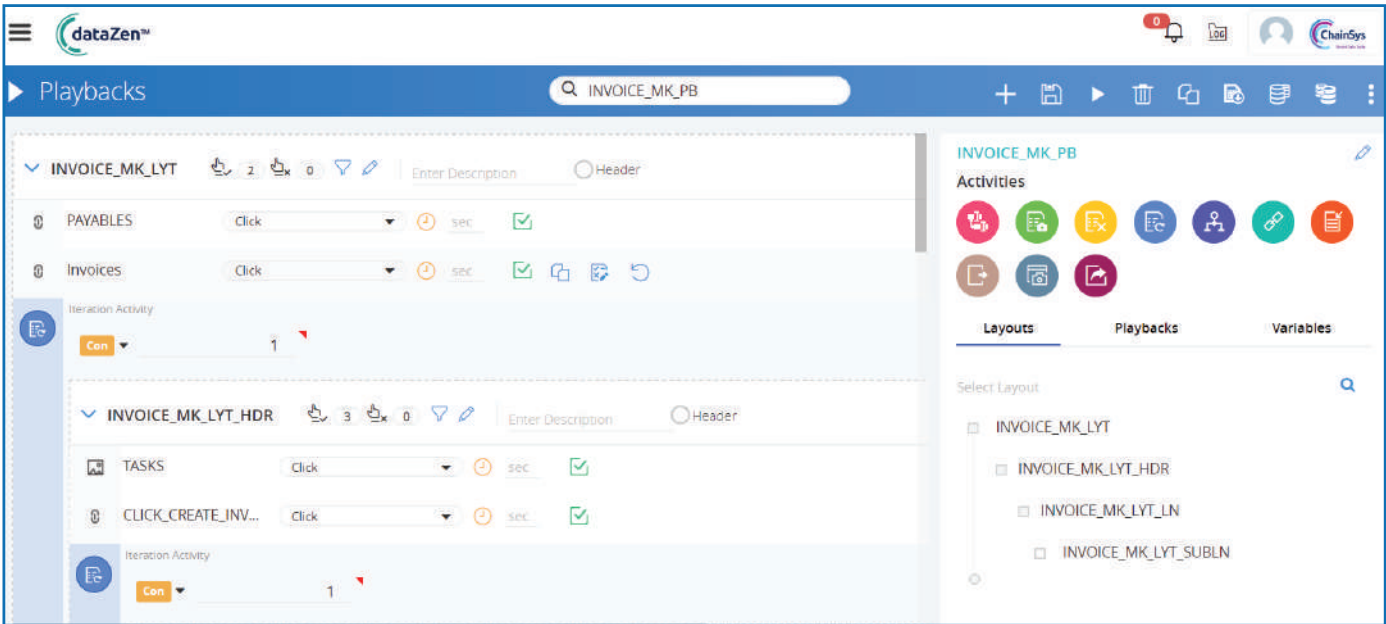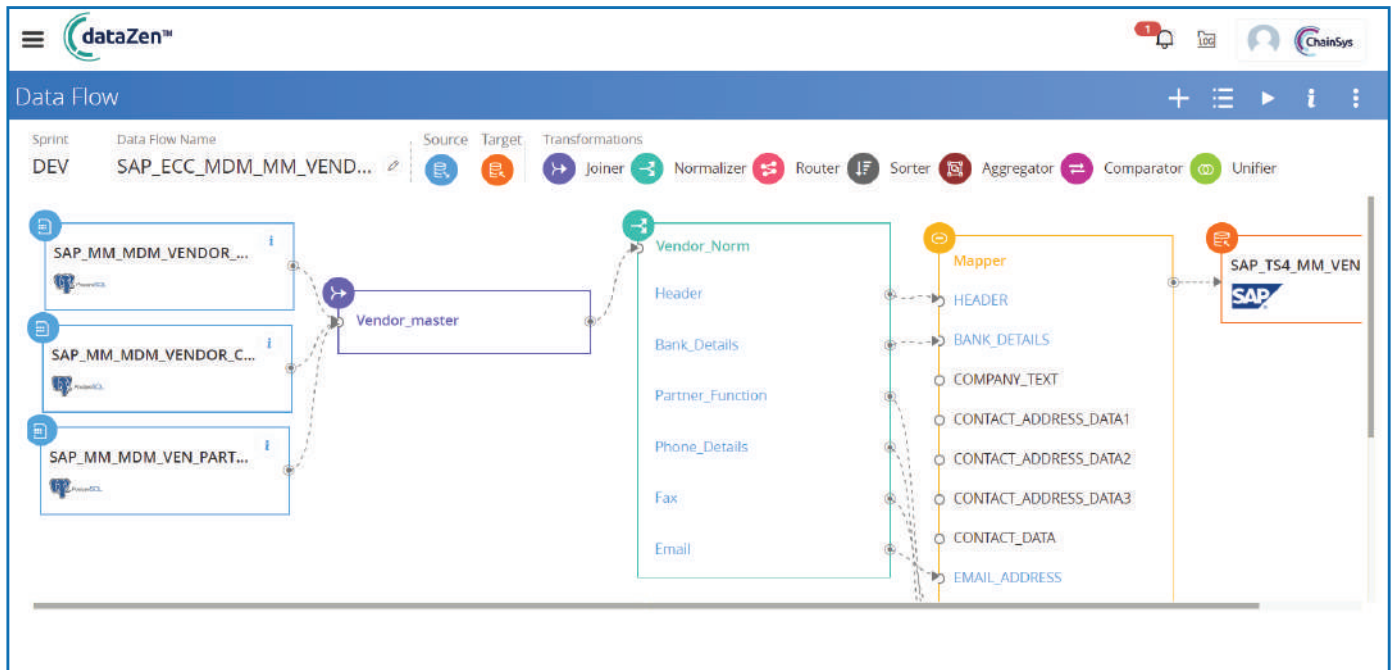
Business Approval for Clean and Complete Suppliers

Seamless Integration of the Clean and Complete Supplier data to the target Application

Smart Data Platform™

**Data Quality Workflow Configurations: It's really fun to work on this!!**
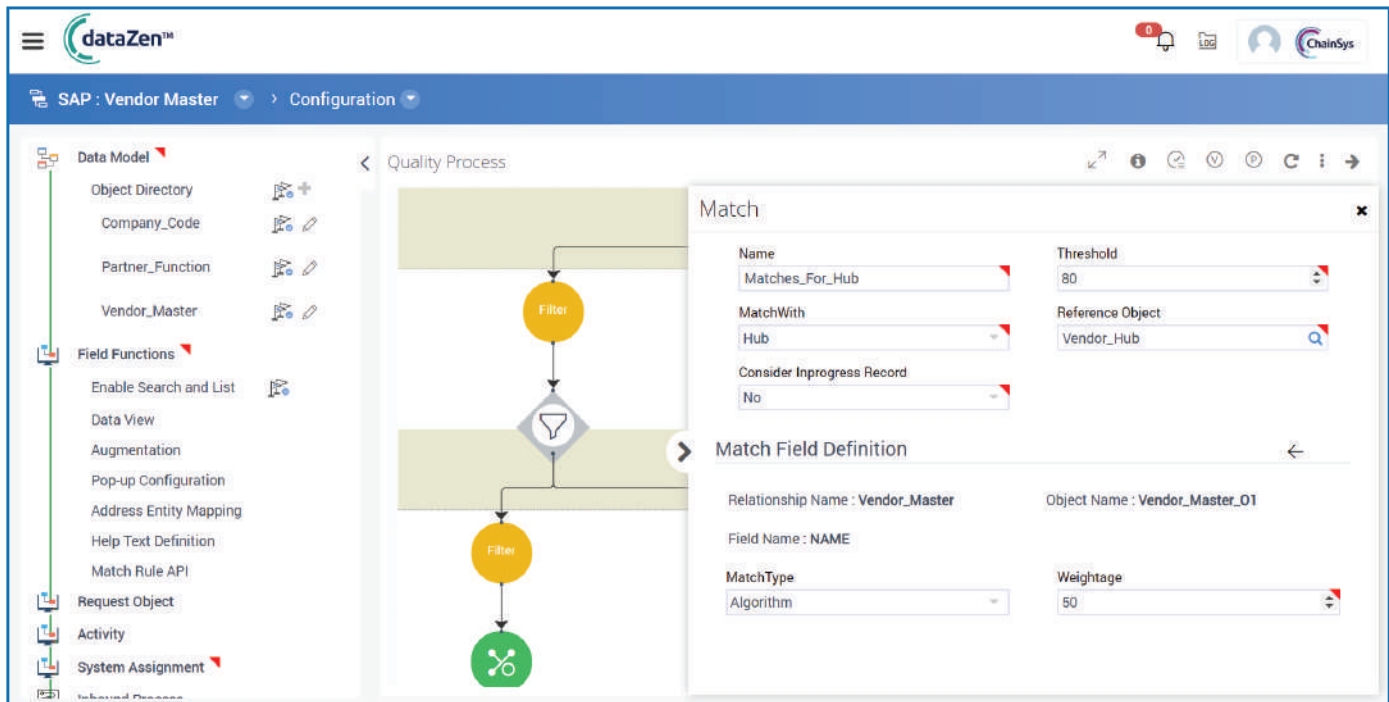
Data Quality done in multiple simplified Bucketed steps to give you clean and complete data:
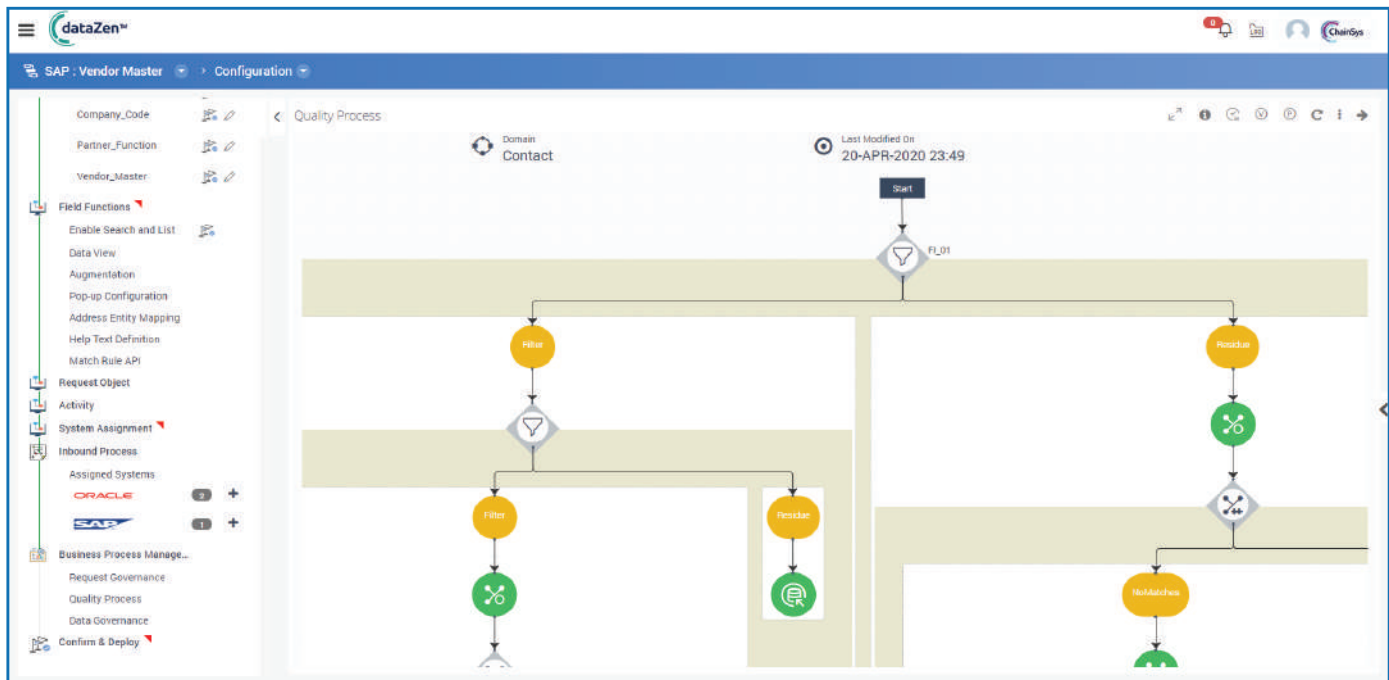
Data Governance process for Products:

Configure your Governance workflow with a simple drag and drop interface. Reduce the time for onboarding and improve the quality of data stewardship with achieving SLA, which is out of the box feature. A simple to complex workflow needs can be easily configured using the ChainSys Governance workflow engine. A clear reporting and notifications are provided to see the current status of each of your requests.
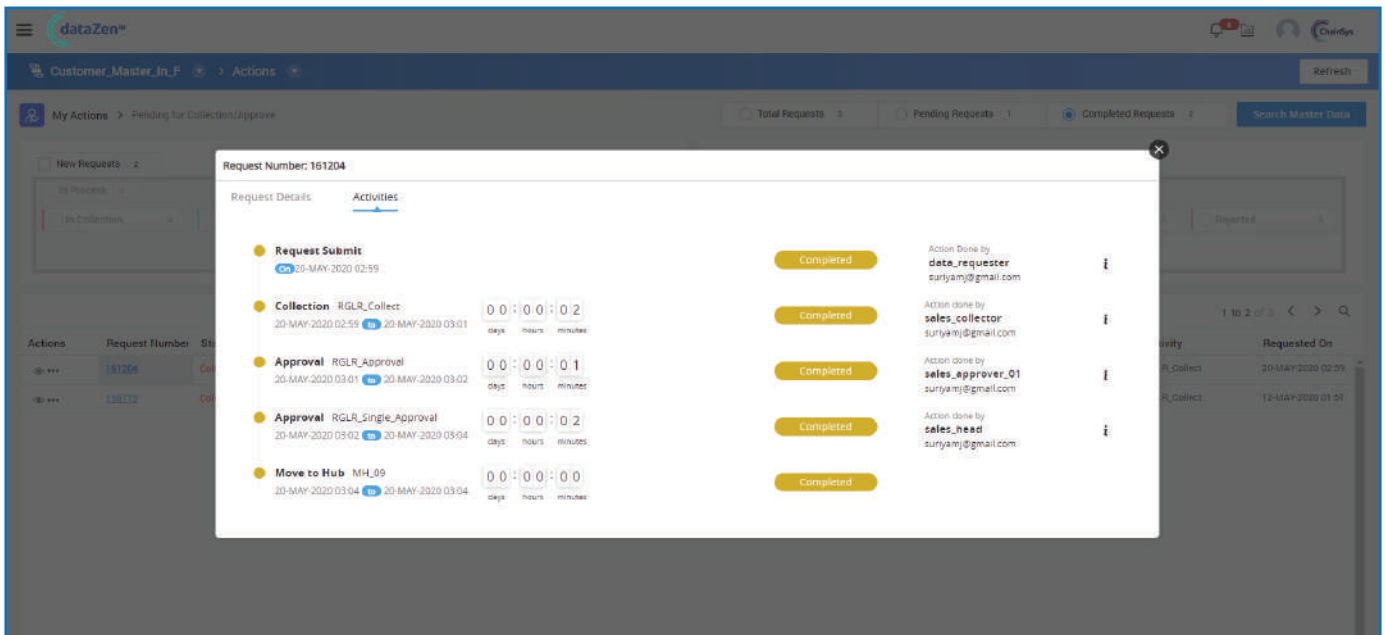

Oracle Supplier Master Data Governance Demo

SAP Supplier Master Data Governance Demo
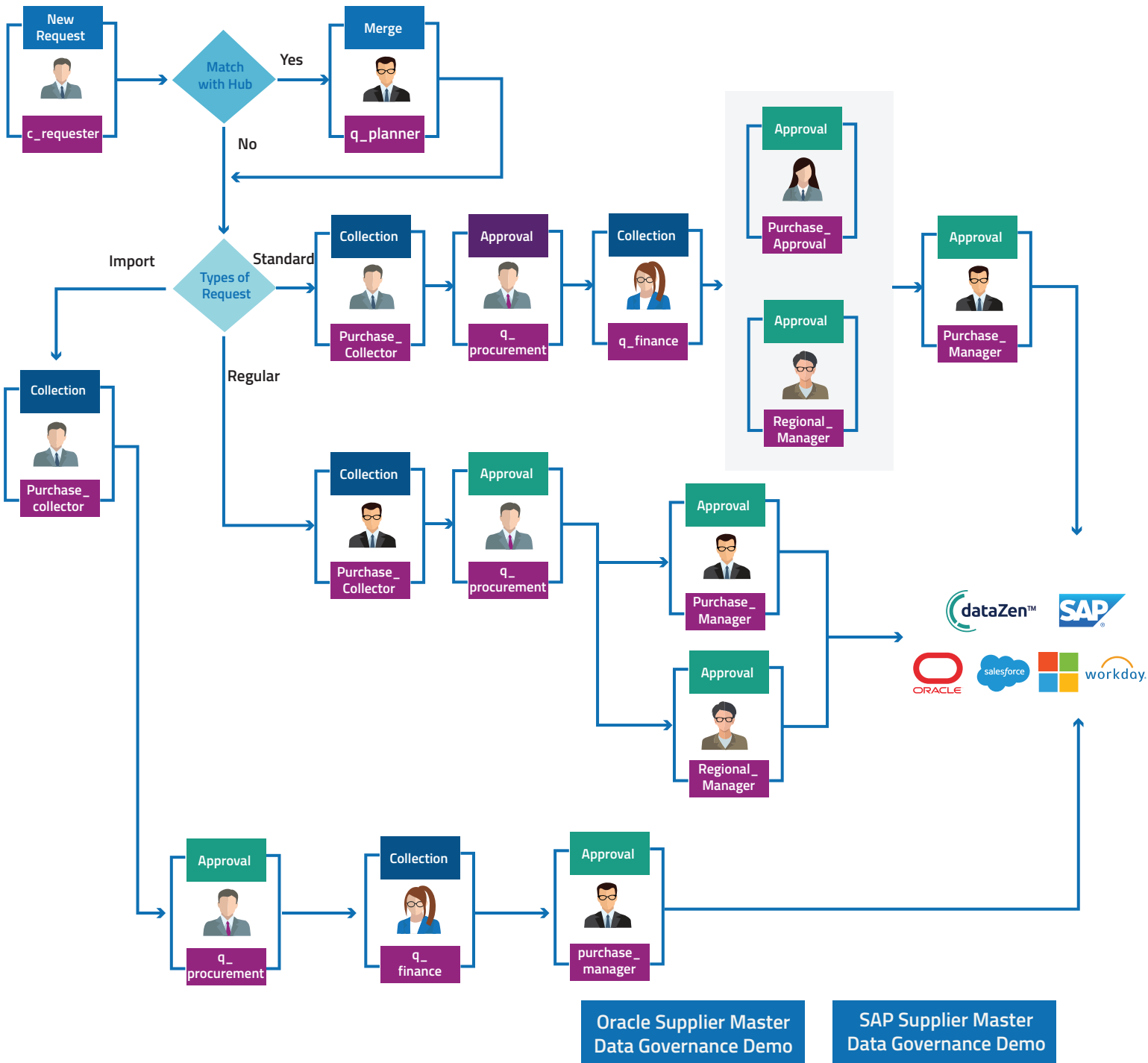
Screen Shots:

Notification screen for New, Modify Supplier Requests, and Completed Requests.
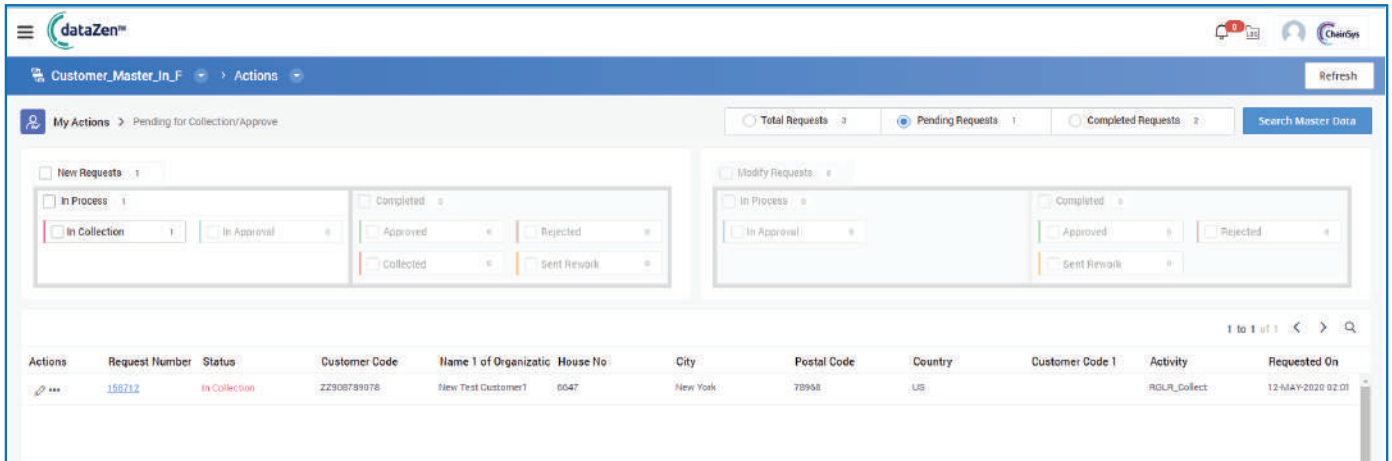
Workflow Process Steps and Current Status:

Smart Data Platform™

Data Governance Screen Easily Configured for Supplier Master for Data Request / Stewards / Owners: Online Validations with Standard Rules and allows to Customize rules

Data Governance Workflow Configurations: Its Finally Easy!!

MDM Implementation Models:

dataZen support Registry, Consolidation, Co-existence and Centralized MDM models for implementations. Let's see which model applies when?

Registry
When you want to store only the unique columns from multiple systems for synchronization.

Consolidation
When you want to build an MDM model for Analytical purpose.

Co-Existence Model
When there is a need for Centralization plus De-centralization of data ownership and stewardship actions.

Centralized Model
When there is only need for centralization in data ownership and stewardship

Registry Model

Consolidation Model

Co-Existence Model

Centralized Model
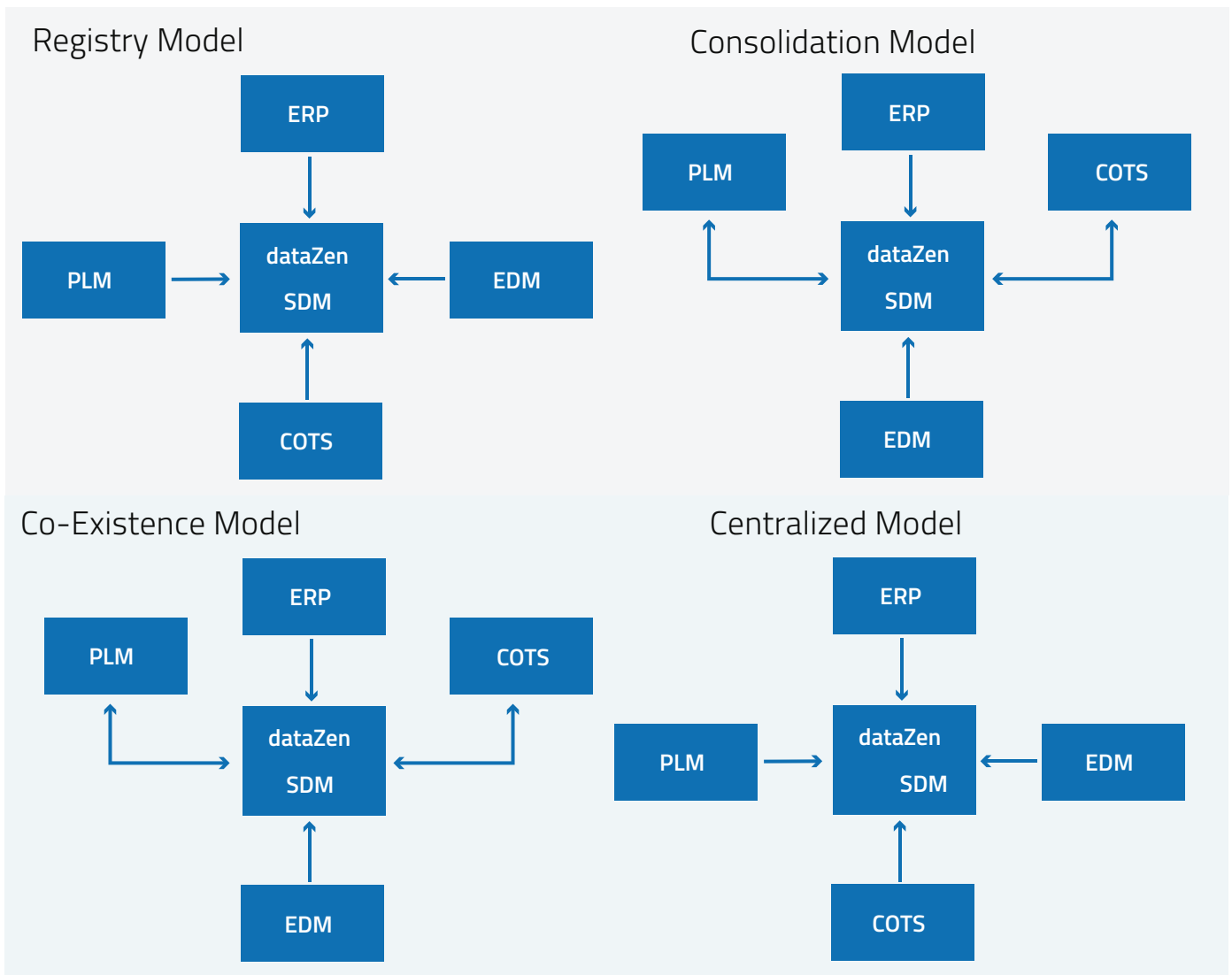
Roles within Product MDM

Its important to form a strong MDM team to create a strong Data driven organization. Here are some tips for the same. We will provide you more detailed recommendations during the implementation period.

Administrators	Business Users
Architect: Responsible for configuring the dataZen application to the requirements for Data Quality Rules, Governance Workflows and Integrations. Makes the changes in development, check-in the objects into the versioning tool, migrates the changes into the production instance of dataZen. Either IT or a Power User can take this role. **System Administrator**: Responsible for applying patches, shut-down, restart of the dataZen applications, backups, recovery etc. IT DBA's are generally given this role	**Data Requestors:** Responsible for requesting for new master products or modify existing products. **Data Stewards:** Responsible for collecting additional data required for completing the product attribution. Domain wise stewards would be great to have like Finance, Materials management, Sales, Manufacturing, Planning, Maintenance/MRO, Service, Self-service etc. **Data Owners:** Responsible for reviewing the actions performed by the requestors and stewards and approve or reject or send for rework against each request.

ChainSys MDM Platform Value Summary

From Presentation: Presentation_for_MDM_Pages_05232020.ppt
Slide Information:
ChainSys MDM Platform Summary

Supplier Success Stories

From Presentation: Presentation_for_MDM_Pages_05232020.ppt
Slide Information:
Success Stories

Customer Master Domain

Material Master Domain

Supported Endpoints (Partial)

Oracle Sales Cloud, Oracle Marketing Cloud, Oracle Engagement Cloud, Oracle CRM On Demand, SAP C/4HANA, SAP S/4HANA, SAP BW, SAP Concur, SAP SuccessFactors, Salesforce, Microsoft Dynamics 365, Workday, Infor Cloud, Procore, Planview Enterprise One	**Cloud Applications**
Oracle E-Business Suite, Oracle ERP Cloud, Oracle JD Edwards, Oracle PeopleSoft, SAP S/4HANA, SAP ECC, IBM Maximo, Workday, Microsoft Dynamics, Microsoft Dynamics GP, Microsoft Dynamics Nav, Microsoft Dynamics Ax, Smart ERP, Infor, BaaN, Mapics, BPICS	**Enterprise Applications**
Windchill PTC, Orale Agile PLM, Oracle PLM Cloud, Teamcenter, SAP PLM, SAP Hybris, SAP C/4HANA, Enovia, Proficy, Honeywell OptiVision, Salesforce Sales, Salesforce Marketing, Salesforce CPQ, Salesforce Service, Oracle Engagement Cloud, Oracle Sales Cloud, Oracle CPQ Cloud, Oracle Service Cloud, Oracle Marketing Cloud, Microsoft Dynamics CRM	**PLM, MES & CRM**
Oracle HCM Cloud, SAP SuccessFactors, Workday, ICON, SAP APO and IBP, Oracle Taleo, Oracle Demantra, Oracle ASCP, Steelwedge	**HCM & Supply Chain Planning**
Oracle Primavera, Oracle Unifier, SAP PM, Procore, Ecosys, Oracle EAM Cloud, Oracle Maintenance Cloud, JD Edwards EAM, IBM Maximo	**Project Management & EAM**
OneDrive, Box, SharePoint, File Transfer Protocol (FTP), Oracle Webcenter, Amazon S3	**Enterprise Storage Systems**
HIVE, Apache Impala, Apache Hbase, Snowflake, mongoDB, Elasticsearch, SAP HANA, Hadoop, Teradata, Oracle Database, Redshift, BigQuery	**Big Data**
mangoDB, Solr, CouchDB, Elasticsearch	**No SQL Databases**
PostgreSQL, Oracle Database, SAP HANA, SYBASE, DB2, SQL Server, MySQL, memsql	**Databases**
IBM MQ, Active MQ	**Message Broker**
Java, .Net, Oracle PaaS, Force.com, IBM, ChainSys Platform	**Development Platform**

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dataZap™

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Data Reconciliation
Data Integaration

dataZen™

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Data Governance
Analytical MDM

dataZense™

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Data Catalog
Data Security & Compliance

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