

What's New With Master Data as a Service?

2024 User Conference

Stephen Taylor



PROMETHEUS GROUP | **USER**
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Speaker Introduction

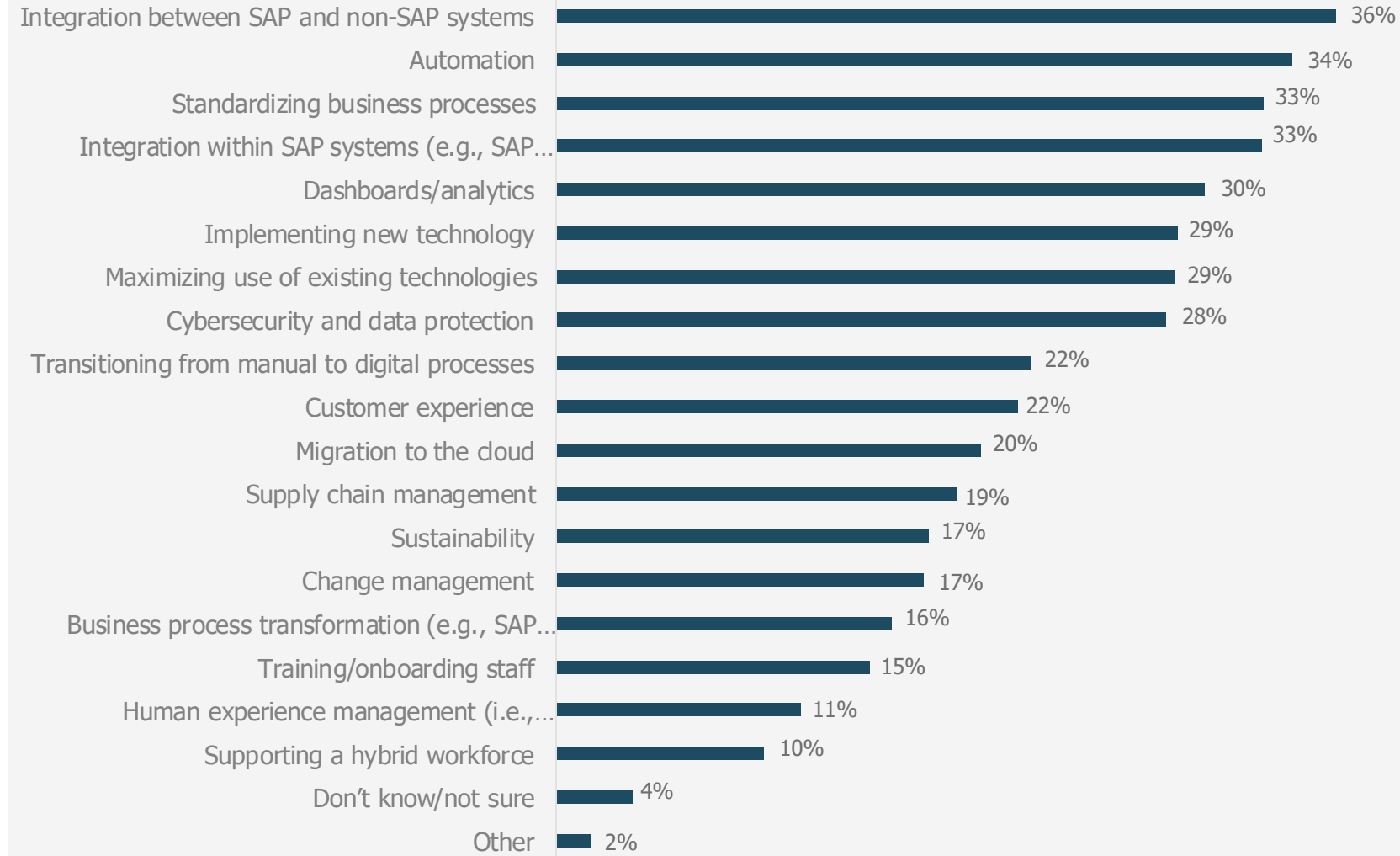


Stephen Taylor
Product Owner, MDaaS



Focus Areas for 2024 (ASUG Study)

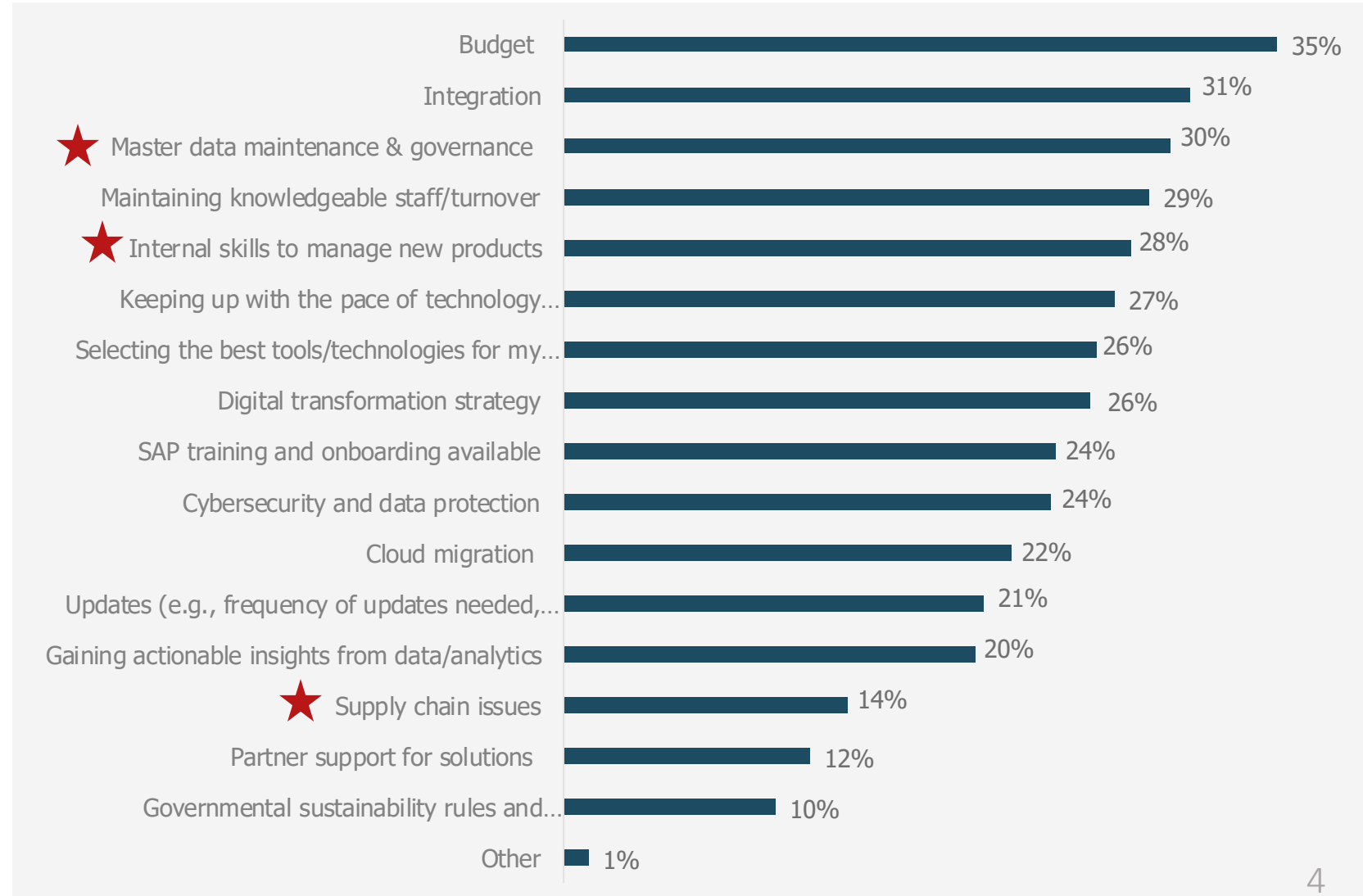
- Study from March 2024
- 766 member responses across multiple industries
- Top Focuses
 - Moving to S/4
 - Integration to non-SAP systems top focuses
 - Standardizing business processes



Top Challenges for 2024 (ASUG Study)

- Biggest Challenges

- Budget
- Integration (again)
- Master Data



Master Data as a Service (MDaaS)

PREPARE



Capture Collect

MDaaS **CAPTURE**

Mobile app for photo-based field data collection

Intelligent image processing and data extraction

Crowd and AI-based data enrichment



Cleanse Classify Crowd

MDaaS **ENRICH**

Standards-centric classification

Drawing and manufacturer's website-based data mining

Machine learning-based data cleansing & enrichment

MOVE



Compare Connect

MDaaS **MIGRATE**

Auditable file comparison and tracking

Integrates with commercial ETLs

Supports all major ERPs

RUN



Combine Create Control

MDaaS **SUSTAIN**

Master Data Management best practice templates

Workflow-driven review & approval

Automated business rules for data validation



Available on
SAP Store

Master Data as a Service (MDaaS)

ID	Status	Customer Name	Priority Level	Requirement Date	Flagged For Deletion	Business Partners	Short Description	PO Text	Material Group	Material
2208	Complete	PG-NA mdaas Demo 450	Low			RIC INSTRUMENTS: S...	Sensor,vibration/temp...			
2240	In Progress	PG-NA mdaas Demo 450	Low			ABEX POWER COMPO...				
2209	Complete	PG-NA mdaas Demo 450	Low			AES CONTROL SYSTEM...	Seal,Mech,1.4375 Vicki...			
2241	In Progress	PG-NA mdaas Demo 450	High			THERMAL CORP: 68498				
2210	In Progress	PG-NA mdaas Demo 450	Medium			GATES SYNCHROPWER...	V-Belt, BX95			
2242	In Progress	PG-NA mdaas Demo 450	Low			LEAN: 2548452	Wooden Block Plane			
2211	In Progress	PG-NA mdaas Demo 450	Low			PUMPING SOLUTIONS:...	Rotor & Shaft, 3-573-3...			
2243	In Progress	PG-NA mdaas Demo 450	Low	07/06/2023		MILWAUKEE CYLINDER...	Milwaukee Drill			
2212	In Progress	PG-NA mdaas Demo 450	Low			KING INSTRUMENT: 31...	Fette, Shim, Ejector			
2244	In Progress	PG-NA mdaas Demo 450	Low	05/02/2023		ABEX POWER COMPO...				
2213	In Progress	PG-NA mdaas Demo 450	Low			KING INSTRUMENT: ;	Shaft, Drive, Insert, Fil...			
2245	Needs More Information	PG-NA mdaas Demo 450	Low			1000BULBS.COM: ;				
2214	Complete	PG-NA mdaas Demo 450	High			AES CONTROL SYSTEM...	Seal,Mech,1.375,DMS...			
2246	Complete	PG-NA mdaas Demo 450	Medium	05/01/2023		ENGINEERED SYSTEMS...				
2215	In Progress	PG-NA mdaas Demo 450	Low			BRANHAM: 800-KT-01;	Boot,10",Corrogated,R...			
2247	Complete	PG-NA mdaas Demo 450	Low			3E COMPANY: 25;				
2216	In Progress	PG-NA mdaas Demo 450	Low			VIKING GRILLS: 2-119...	Idler Bushing, 2-119-0...			
2217	In Progress	PG-NA mdaas Demo 450	Low			VOLKMANN UK: 105590;	QX Seal Silicone			
2249	Complete	PG-NA mdaas Demo 450	High	04/25/2023		ABB AUTOMATION: AB...	NEW MOTOR,45KW			
2218	In Progress	PG-NA mdaas Demo 450	Low			TURTLE & HUGHES: 95...	Bearing, Roller, Tapere...			



Field Data Collection

Perform field walkdowns to capture and collect asset information with the MDaaS Capture application.



Data Migration

Migration Services can help with changing ERP systems, merging ERP systems, transferring transactional data, and more.



Governance Workflows

Check, update, load, and audit all your master data.

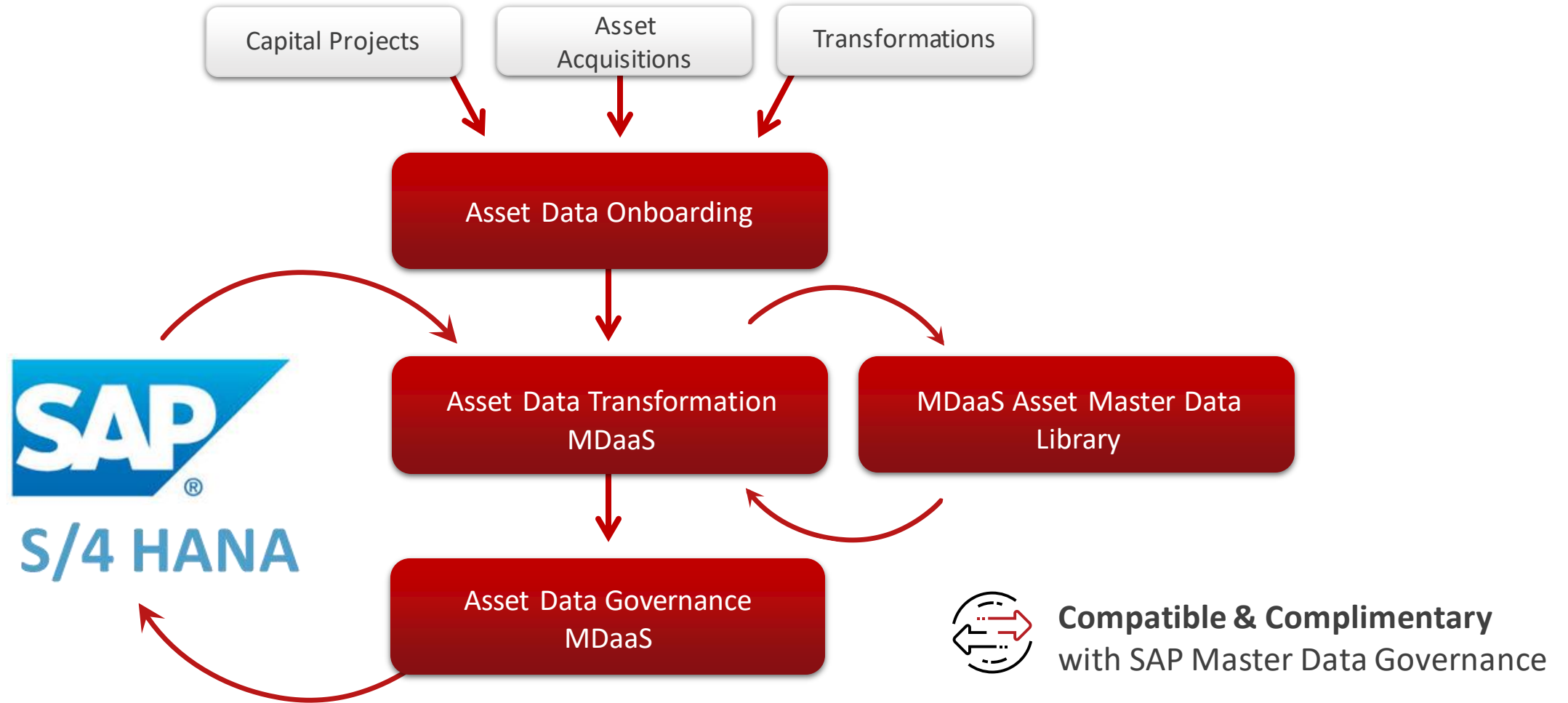


Master Data Standardization

AI machine learning-based solution designed to improve your master data.



Master Data as a Service (MDaaS)



Hierarchy Management

- Ability to manipulate asset structures
- Spreadsheet upload
- Drag and Drop
- “Simulation Mode” for your assets

The screenshot displays the 'Hierarchy' management interface. At the top, there are filters for 'Plant' (1000), 'Functional Location' (1013), and 'Display Levels Below' (5). A search bar is also present. The main area shows a hierarchical tree of assets, including '1013-E-10-10' and '1013-E-22-13'. A context menu is open over the '1013-E-10-10' node, with 'Copy Hierarchy Structure' highlighted in red. Other menu options include 'Add Child Functional Location', 'Search and Add Equipment', 'Expand Node', 'Collapse Node', 'Expand All', 'Collapse All', 'Copy', 'Copy with Headers', 'Paste', and 'Export'. A notification at the bottom left states: 'Entering Copy mode. Choose a Functional Location. Press ESC to cancel.'

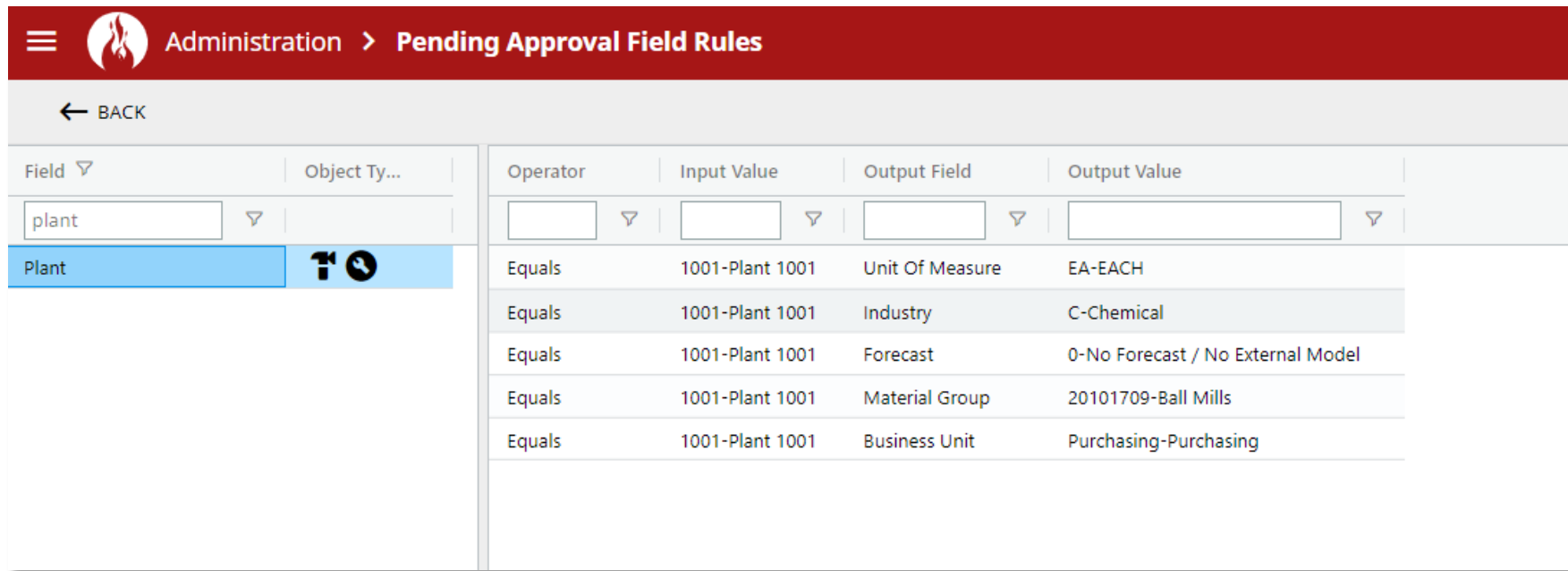
Name	Description	Project	Manufacturers	Vendors	Assignee
1013	Manufacturing Plant	csnyder@prometheusgroup.c...			
1013-E	1013-E	csnyder@prometheusgroup.c...			
1013-E-10	1013-E-10	csnyder@prometheusgroup.c...			
1013-E-10-10	1013-E-10-10	csnyder@prometheusgroup.c...			
EQP_Approval_18	VLV:CHECK:	fsangrasi@prometheusgroup...	ROCKWELL EDWARD: 2017...	3E COMPANY: 2017-MPY	
1013-E-10-13	1013-E-10-13	fsangrasi@prometheusgroup.c...			Farhan
EQP_Approval_16	VLV:GLOBE:	fsangrasi@prometheusgroup.c...	FISHER CONTROL: 1" GX/225...		
1013-E-22	1013-E-22	csnyder@prometheusgroup.c...			
EQP_Approval_13	VLV:GLOBE:	fsangrasi@prometheusgroup...	CARRARO: UBS-V-AF2C-220, ...		Farhan
1013-E-22-10	1013-E-22-10	csnyder@prometheusgroup.c...			
1013-E-22-13	1013-E-22-13	csnyder@prometheusgroup.c...			
EQP_Inquiry_7	Shell and Tube Exchanger	csnyder@prometheusgroup.c...	HEXCO: 1234		
EQP_Approval_12	VLV:GLOBE:	fsangrasi@prometheusgroup...	FISHER ROSEMOUNT: 470-ET...		Farhan
1013-E-33	1013-E-33	csnyder@prometheusgroup.c...			
1013-E-33-10	1013-E-33-10	csnyder@prometheusgroup.c...			
1013-E-33-13	1013-E-33-13	csnyder@prometheusgroup.c...			
EQP_Inquiry_6	Shell and Tube Exchanger	csnyder@prometheusgroup.c...			
EQP_Inquiry_8	Shell and Tube Exchanger	fsangrasi@prometheusgroup.c...			
1013-E-45	1013-E-45	csnyder@prometheusgroup.c...			
1013-E-45-10	1013-E-45-10	csnyder@prometheusgroup.c...			
1013-E-45-13	1013-E-45-13	csnyder@prometheusgroup.c...			
EQP_Inquiry_10	Shell and Tube Exchanger	csnyder@prometheusgroup.c...			
1013-E-55	1013-E-55	csnyder@prometheusgroup.c...			

Attribute	Value
TYPE	EMERGENCY
END CONNECTION	4 IN 300 LB RF
DESIGN INLET TEMPERATURE	-12 DEG C
ACTION TYPE	SPRING & DIAPHRAGM
BODY MATERIAL	316L STAINLESS STEEL
ADDITIONAL FEATURES	SERVICE:ETHYLENE





Governance Functionality

- Rules and Defaults: No Code modifications
- Simplification of user interface



Administration > Pending Approval Field Rules

← BACK

Field ▾	Object Ty...	Operator	Input Value	Output Field	Output Value
plant ▾					
Plant	 	Equals	1001-Plant 1001	Unit Of Measure	EA-EACH
		Equals	1001-Plant 1001	Industry	C-Chemical
		Equals	1001-Plant 1001	Forecast	0-No Forecast / No External Model
		Equals	1001-Plant 1001	Material Group	20101709-Ball Mills
		Equals	1001-Plant 1001	Business Unit	Purchasing-Purchasing



Cleansing & Enrichment

- AI-Based process to classify and standardize records
- Workflow for processing and QC of records
- Customer Facing Review Portal
 - Bulk approve/ reject
 - Feedback & Comments

#	Noun	Modifier	Part #	Status	Original Short Text	Original Long Text	Data Level	Material Number	Assigned
378683	VALVE	NO MODIFIER	WKM DYNA... 2191468-01-02	In Progress	RUN 1 ISOLATION VALVE	VALVE,SIZE AND DIMENSION:1...	None	3112024-01	
378684	SENSOR	LEVEL	ENDRESS+H... FTC260-AB482	Not Started	LEVEL, SENSOR,MINICAP, FTC2...	0 Endress -(>&-<)- Hauser ML...	Cleansed	3112024-10	
378685	CARTRIDGE	NO MODIFIER	ANSIMAG K+ 1516NCBK411	In Progress	PUMP, CART ASSY, ANSIMAG K...	Sundyne Corporation Ansimag ...	None	3112024-09	
378686	BEARING	BALL	DODGE 02317763	In Progress	Motion # 02317763 Dodge, PBL...	BEARING, BALL, PBLOCK,DODG...	None	3112024-08	
378687	TENSIONER	NO MODIFIER	LOVEJOY 608B15	In Progress	TENSIONER,SPROCKET, LOVEJOY...	0 Gough Econ Tensioner,Sproc...	None	3112024-13	
378688	CASING	PUMP	GOULDS 104-557-1203	Not Started	GOULDS, 31965TX,Casing 3165...	GOULDS, 31965TX, CASING 31...	Cleansed	3112024-12	
378689	STARTER	MOTOR	SQUARE-D LUCB12FU	In Progress	MOTOR STARTER, SQUARE-D, L...	CL10-3PH 3-12A 110-240VAC	None	3112024-10	
378690	ROTOR	PUMP	VIKING 3-573-153-724-47	Not Started	Viking LQ4127A Rotor and Shaf...	ROTOR & SHAFT, VIKING, 3-57...	Cleansed	3112024-12	
378691	MOTOR	DC	LEESON 108023.00	Not Started	LEESON 108023.00 1,18,180V...	MOTOR, LEESON, 1HP,56C, 180...	Cleansed	3112024-09	
378692	FUSE	CARTRIDGE	BUSSMANN FRS-R-60	Not Started	PO TEXT: Bussmann FRS-R-60 F...	FUSE,BUSSMANN, FRS-R-60,RK5	Cleansed	3112024-07	
378693	GASKET	FLANGE	GARLOCK	In Progress	GASKET,FLANGE, GRAPHITE, 13...	Gasket, body flange gasket Gar...	None	3112024-06	
378694	GASKET	FLANGE	GARLOCK	In Progress	GASKET,FLANGE,GRAPHITE, 26...	Gasket, body flange gasket Gar...	None	3112024-05	
378695	GASKET	FLANGE	GARLOCK	In Progress	GASKET, MANWAY, GRAPHITE...	Gasket, manway flange gasket ...	None	3112024-04	
378696	GASKET	FLANGE	GARLOCK	In Progress	GASKET,FLANGE,GRAPHITE, 20...	Gasket, body flange gasket Gar...	None	3112024-03	
378697	ACTUATOR	NO MODIFIER	AIRTORQUE PT300 PT300-508-H-F...	In Progress	Actuator,Airtorque, PT300 PT30...	ACTUATOR,AIRTORQUE, PT300	None	3112024-02	
378698	KIT	REDRESS	VELAN SKS8-F16-SSE	In Progress	PO TEXT: ZZV 10 in Velan #SKS...	VALVE,VELAN,10" REPAIR KIT,S...	None	3112024-08	
378699	BEND	TUBE	SWAGELOK	In Progress	TOOLS OTHER METALLIC HAN...	TUBE BENDERS,SIZE:1/8" ODMA...	None	3112024-13	



Customer Facing Review Portal

Mass Approval > Equipment and BOMs

BoM 5

Default

MANUFACTURER
WATTS

PART NUMBER
LFN45B-M1

EQUIPMENT NUMBER: 20156988

INSTRUMENT OTHER

ID	B. ↓	Comments	Status	Manufacturer 1 Name	Manufacturer 1 Model Nu...	Catalog Prof...	Final Class	Cat	Batch	Equipment
64			1	Awaiting Cleanse	PRIMARY FLOW SIGNAL	PRIMARY	E_FLOW_NOZZLE	I		20158042
65			1	Awaiting Cleanse	APPLETON	LOGIC	E_INSTR_OTHER	I		20159464
66			1	Awaiting Cleanse	WATTS	CONTROL	E_INSTR_OTHER	I	1 - NEW BAT...	20154718
67			1	Awaiting Cleanse	APPLETON	LOGIC	E_ANLZ_OTHER	I	1 - NEW BAT...	20154719
68			2	Needs More Info	WATTS	CONTROL	E_INSTR_OTHER	I	1 - NEW BAT...	20154731
69			2	Needs More Info	WATTS	CONTROL	E_INSTR_OTHER	I	1 - NEW BAT...	20154794
70			2	Needs More Info	WATTS	CONTROL	E_INSTR_OTHER	I	1 - NEW BAT...	20154843
71			2	Needs More Info	WATTS	CONTROL	E_INSTR_OTHER	I	1 - NEW BAT...	20154845
72			2	Needs More Info	CONAX	PRIMARY	E_TEMP_RTD	I	1 - NEW BAT...	20154895
73			1	Awaiting Cleanse	WATTS	CONTROL	E_INSTR_OTHER	I	1 - NEW BAT...	20154812
42			1	Awaiting Cleanse	ASCO	LOGIC	E_INSTR_OTHER	I	1 - NEW BAT...	20160007
74			2	Awaiting Cleanse	FEDERAL SIGNAL	ANNUNCIA	E_INSTR_OTHER	I	1 - NEW BAT...	20155359
43			1	Awaiting Cleanse	EMERSON-FISHER	CONTROL	E_INSTR_OTHER	I	1 - NEW BAT...	20158227
75			2	Awaiting Cleanse	GENPOWER	CORERE	E_CORE	M	1 - NEW BAT...	20155475
12			5	Awaiting Cleanse		PRIMARY	E_TEMP_T_C	I		20158125
44			1	Awaiting Cleanse	VIRGO	VALVEC	E_VALVE_POWE...	I		20158276
76			1	Awaiting Cleanse	WATTS	CONTROL	E_INSTR_OTHER	I		20155631
45			1	Awaiting Cleanse	VIRGO	VALVEC	E_VALVE_POWE...	I		20158310
77			1	Awaiting Cleanse	WOODWARD	CONTROL	E_INSTR_OTHER	I		20155679
46			1	Awaiting Cleanse	FISHER	VALVEC	E_HAND_CONT...	I		20158320
78			1	Awaiting Cleanse	VIRGO	VALVEC	E_INSTR_OTHER	I		20155832
47			2	Awaiting Cleanse	EMERSON	PRIMARY	E_TEMP_RTD	I		20158561

rows 82

Attribute | Value

P_SIGNAL_TYPE

P_PROCESS_CONNECTION

P_PID | L2CC-079-25-PI-1018

P_HAZARDOUS_AREA_CLAS...

P_COMPONENT_LOCATION | EW/SS TO EWSS-04 CV

P_COMPONENT_TYPE

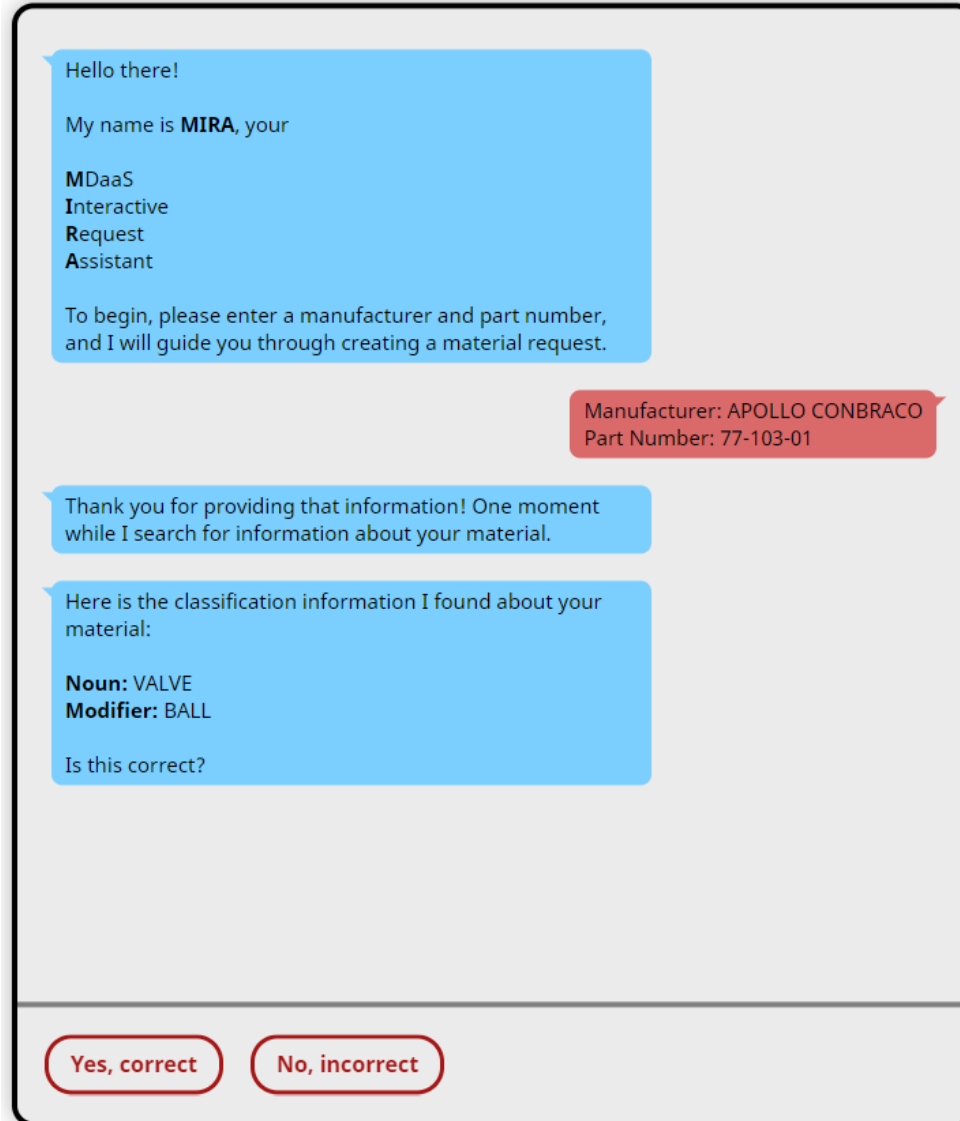
P_FAILURE_MODE



AI!



Material Request With AI



The screenshot shows a chat interface with a light gray background. On the left, there are three blue message bubbles. The first bubble contains the text: "Hello there! My name is **MIRA**, your MDaaS Interactive Request Assistant. To begin, please enter a manufacturer and part number, and I will guide you through creating a material request." The second bubble contains: "Thank you for providing that information! One moment while I search for information about your material." The third bubble contains: "Here is the classification information I found about your material: **Noun:** VALVE **Modifier:** BALL. Is this correct?". On the right, there is a red message bubble containing: "Manufacturer: APOLLO CONBRACO Part Number: 77-103-01". At the bottom of the chat area, there are two red-outlined buttons: "Yes, correct" and "No, incorrect".

Hello there!

My name is **MIRA**, your
MDaaS
Interactive
Request
Assistant

To begin, please enter a manufacturer and part number,
and I will guide you through creating a material request.

Manufacturer: APOLLO CONBRACO
Part Number: 77-103-01

Thank you for providing that information! One moment
while I search for information about your material.

Here is the classification information I found about your
material:

Noun: VALVE
Modifier: BALL

Is this correct?

Yes, correct No, incorrect



Material Request With AI

Thank you for providing that information! One moment while I search for information about your material.

Here is the classification information I found about your material:

Noun: VALVE
Modifier: BALL

Is this correct?

Yes, correct

Fantastic! Another moment while I search for attributes for your material.

Here is specification information I found on your material

NOMINAL SIZE: 1/2IN
END CONNECTION: FNPT
PORT TYPE: FULL
CONFIGURATION: 2-PIECE
PRESSURE CLASS/RATING: 600 PSIG
DESIGN PRESSURE RANGE: 600 PSIG CWP
ACTUATION TYPE: MANUAL
BODY MATERIAL: BRONZE
TRIM MATERIAL: C37700 BALL
CERTIFICATION/STANDARD: ARRA COMPLIANT, CRN OC10908.5C, FEDERAL SPECIFICATIONS WW-V-35C TYPE II COMPOSITION BZ STYLE 3, MSS SP-110


If you are satisfied with the provided data. You can create an inquiry, or edit the data.




CREATE NEW
INQUIRY

EDIT NEW
INQUIRY



Cleansing of Records

☰  Cleansing Page ☑ Enable Background Refresh 👁 Act

  Filter: No filter x | v Customer: Client Feb 28 2024 v AI Records to Process: 334 

☰ Drag here to set row groups

#	Original Short Text	Original Long Text	Noun	Modifier	Part #
368585	VALVE,BALL,SS, 3/4",FLANGED ...	0 ZZA 3/4 VELAN F01413-SSEA ...	VALVE	BALL	VELAN F01413-SSEA
368586	FUSE, PEAK CC TD, LPCC-5	FUSE Peak CC TD LPCC-5			FUSE:CARTRIDGE
368587	FUSE, J TD, LPJ1 6/10SP, 600V	FUSE 600V J TD -LPJ1 6/10SP-			FUSE:CARTRIDGE
368588	FUSE, J TD, LPJ100SP, 600V	FUSE 600V J TD -LPJ100SP-			FUSE:CARTRIDGE
368589	FUSE, J TD, LPJ10SP, 600V	FUSE 600V J TD -LPJ10SP-			FUSE:CARTRIDGE



BOM Building

Hierarchy
Equipment Analysis
Back to Search
Project Mode
Approve Project
ST

Plant: 1000 | Functional Location: S1 | Display Level: 5

Name ↑

- └ S1
 - └ S1-B
 - └ S1-B01
 - └ S1-B01-1
 - 10118296
 - S1-B01-2
 - └ S1-B02
 - S1-B02-1
 - S1-B02-2
 - S1-B02-2A
 - 10118297
 - S1-B02-2C
 - └ S1-HZA
 - S1-HZA-D1
 - S1-HZA-D2
 - └ S1-ZPW
 - S1-ZPW-1
 - 10118298
 - 10118299
 - 10118300
 - S1-ZPW-2

Matches for Equipment 10118300: Vereinte Mechanische Werke AG - P-I

Equipment #	Equipment Text	Functional Location	Maint. Plant
10005686	Electric pump 001	80LAC30AP001	1200
10006747	Electric pump 001	01-B01	1200
10003953	Pump 08	ICE-M2-M2-02	1000
TEQ-02	Electric pump 001	02-B02	1000
10007177	C123 H72	K1-B01	1200
TEQ-07	Electric pump 001	07-B02	1000
TEQ-15	Electric pump 001	15-B02	1000
TEW-02		02-BR2-11	1000
TEW-16		16-BR2-11	1000
TEX-07			1000
TEX-08			1000
TEX-13			1000
TEY-03	Electric pump 001	03-B01	1000
TEY-04	Electric pump 001	04-B01	1000
TEY-10	Electric pump 001	10-B01	1000
TEY-19	Electric pump 001	19-B01	1000
10003917	Pump 01	ICE-M1-01	1000
10003920	Pump 02	ICE-M1-02	1000
10007171	Wellpad	K1-B01	1200
KEN-TEST	Electric pump 012 - Testing	KEN--TST	1000
TEQ-01	Electric pump 001	01-B02	1000

TOTAL BOM ANALYSIS OR HISTORICAL WORK ORDER MATERIAL ANALYSIS OR BOM TEMPLATE ANALYSIS

MANUFACTURER: Vereinte Mechanische Werke AG

NUMBER: P-I

MANUF. COUNTRY: DE

CONSTRUCTION DATE: -

Attribute	Value
No Rows To Show	



Historical Work Orders

Historical Work Order Material Analysis

These materials appear on Work Orders written against Manufacturer: Vereinte Mechanische Werke AG Model: P-I

Status	Material #	Material Text	Number of Instances	Last Used on Work Order	Plants
<input type="checkbox"/>	100-100	GSKT,FLGSP: MANUF 1, MN1	481 (83.4%)	12/30/2027	1000, 1010, 1100, 1200, 2000, 2300, 3000, 3200, 3800, 6...
<input type="checkbox"/>	100-200	87/77"	316 (54.8%)	02/01/2024	1000, 1010, 1100, 1200, 2000, 2300, 3000, 3200, 3800, S...
<input type="checkbox"/>	C-1013	SUN Solaris	21 (3.6%)	06/09/2022	1000
<input type="checkbox"/>	KR117185	Distance plate	19 (3.3%)	09/09/2013	1000, 3000
<input type="checkbox"/>	C-1012	UNIX	10 (1.7%)	06/09/2022	1000
<input type="checkbox"/>	100-300	Hollow shaft & <	9 (1.6%)	08/10/2023	1000, 1200, 2000, 2300, 3000, 3800, SG01
<input type="checkbox"/>	1177	Bolt	7 (1.2%)	01/31/2024	1000
<input type="checkbox"/>	100-400	Electronic	6 (1.0%)	02/01/2024	1000, 2000, 2300, 3000, 3200, 3800, SG01
<input type="checkbox"/>	TEST_001	Material 001 a	5 (0.9%)	10/12/2023	1000
<input checked="" type="checkbox"/>	58	Ventilation, complete JEREMY	4 (0.7%)	01/24/2023	1000, 3000, 3010, 3100, 3200, SG01
<input checked="" type="checkbox"/>	59	Filter	3 (0.5%)	08/07/2023	1000, 3000, 3010, 3100, 3200, SG01
<input type="checkbox"/>	TEST_002	Material 002	3 (0.5%)	10/12/2023	1000
<input type="checkbox"/>	DG-1000	Rubber Seal	3 (0.5%)	08/21/2023	1000, 2000, 3000, 3200
<input type="checkbox"/>	M-1000	Motor, electrical pump 250kW	3 (0.5%)	03/26/2020	1000, 2000, 3000, 3200, 4700, SG01
<input type="checkbox"/>	G-1000	Gears, electrical pump	3 (0.5%)	11/13/2023	1000, 3000, 3200, 4700
<input type="checkbox"/>	100-121	Flat gasket	3 (0.5%)	01/23/2024	1000
<input type="checkbox"/>	100-431	Mains adaptor 100 - 240 V	3 (0.5%)	03/01/1995	1000, 1100, 2000, 3000, 3200
<input type="checkbox"/>	BATCH-TEST	Widget for BATCH	2 (0.3%)	08/21/2023	1000
<input type="checkbox"/>	P-2003	Pump, normal SIHI 200-200	2 (0.3%)	07/11/2022	1000
<input type="checkbox"/>	IL-1000	Impeller Type 1B, electrical pump	2 (0.3%)	05/04/2022	1000, 3000



In Summary

- A lot is happening with Prometheus Group and Master Data
- AI is unlocking new opportunities at a rapid pace

Thank You!

Questions?



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Stephen Taylor – Product Owner