

sparesfinder
beyond data cleaning

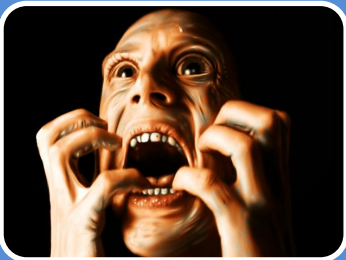


Future-proofing a material master
data project

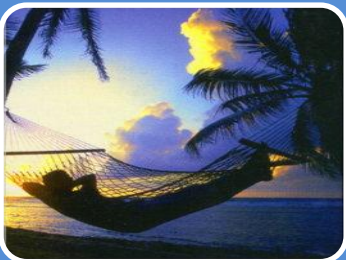
14th October 2010



sparesFinder overview



The data-cleaning project



Data-governance

Company profile



Operating globally ex UK since 1998

Users in >90 countries

Material master experts

Leading dictionary

Cloud computing

Partnerships with leading firms



Software tools

- sparesFinder offer a comprehensive suite of fully hosted software tools that are used by leading multinational companies in over 90 countries to **create**, **manage**, **distribute**, **search** and **leverage** spare parts and other material information.

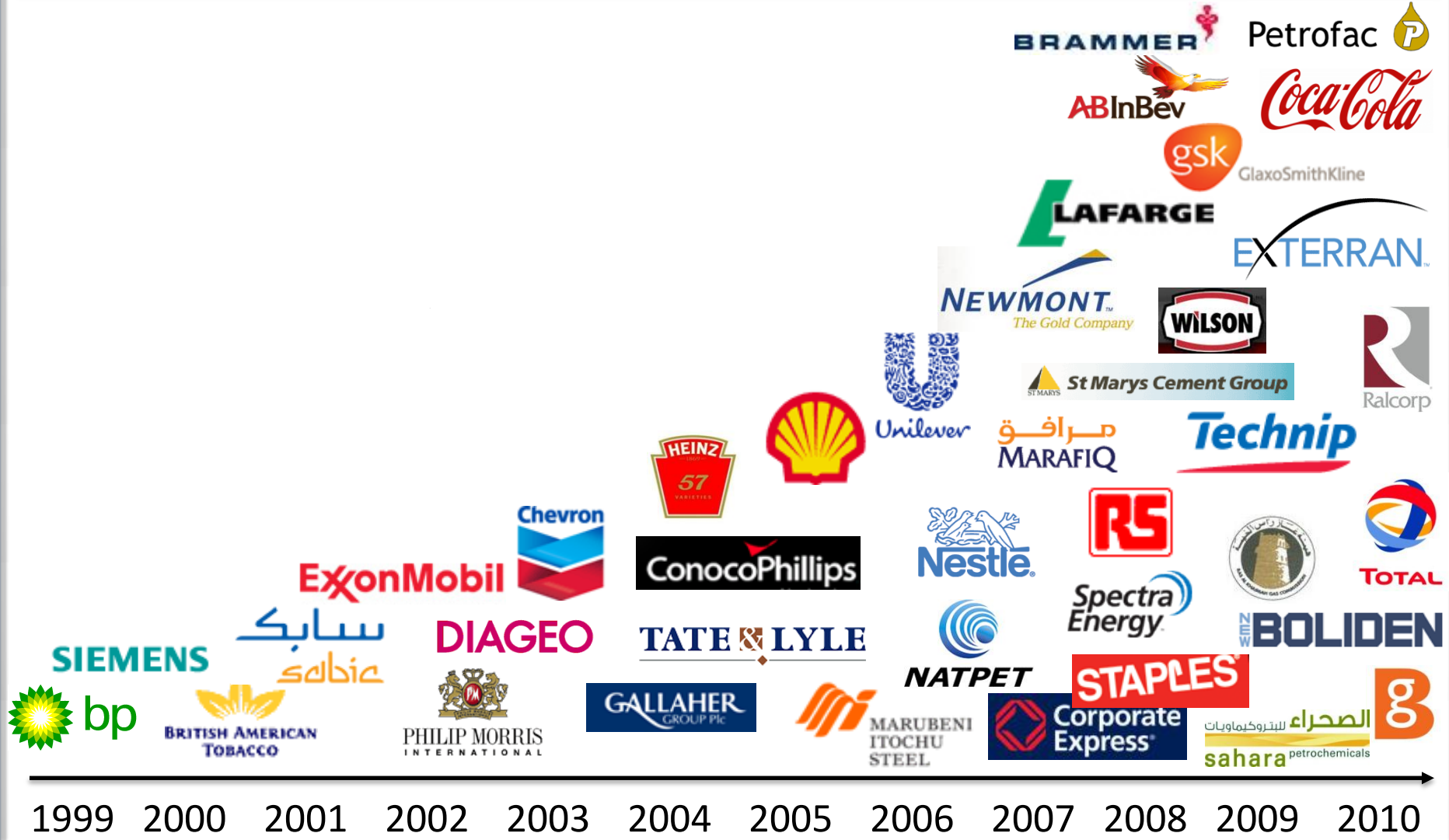
Content

- Our data management tools are pre-configured with over 2,500 detailed dictionary templates for MRO items, that can be translated to most languages.

Services

- sparesFinder provide specific knowledge around the building of technical material master dictionaries
- sparesFinder has extensive experience in the management and delivery of large multi-site materials data cleaning projects.

sparesFinder customers





The data-cleaning project

“Beyond data cleaning”

Provide the material master data foundation

- Establish a single master record for each unique spare across a company – **“a single version of the truth”**
- Implement the software and data governance organisation to manage spares master data to prevent duplication, manage part supersession and obsolescence, and provide quick, accurate data to multiple client systems

Establish inventory visibility

- Deliver visibility of all inventory options (own, corporate, VMI, VOI, vendor catalogues) in one place and establish processes for intra-company trading of spares

Leverage the information

- Improve search functionality from better structured and accessible data
- Provide reports to drive inventory reduction and support procurement initiatives
- Enable better, cheaper compliance with 3rd party requirements (e.g. ISO standards, Tax codes, UNSPSC, ECCMA)

Before you start...

Is your company ready for clean data?

- Many inefficiencies will be uncovered, and some organisations are not ready for change. Information is power and central control of the data creation process is not always easy to attain.

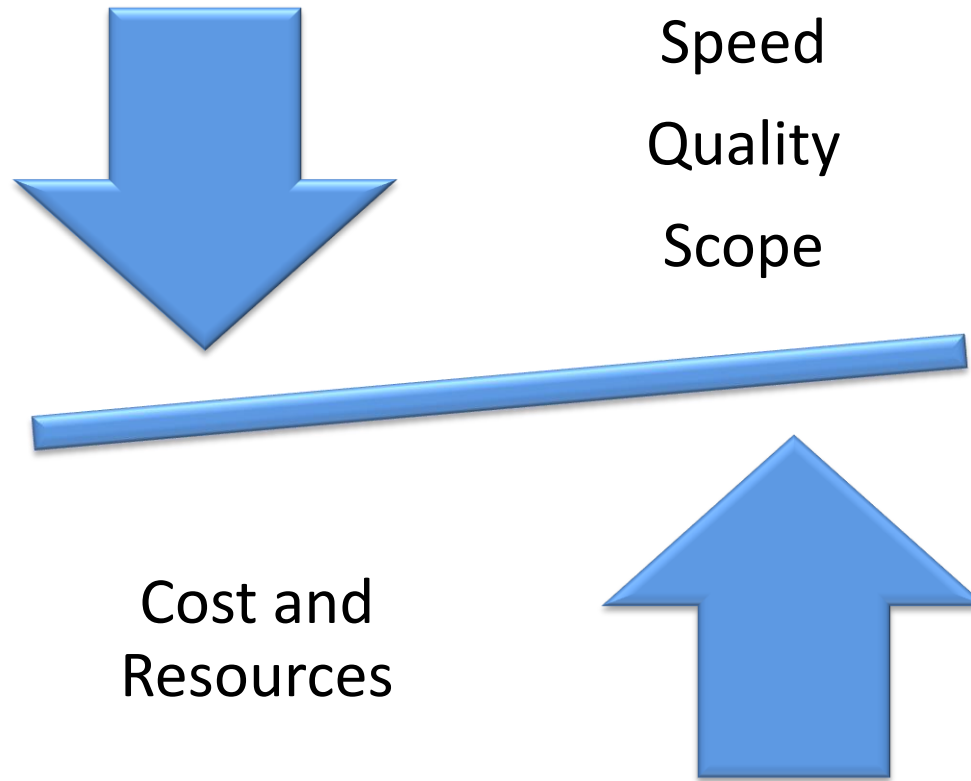
Do you have a robust business case?

- Data cleaning projects are complex, difficult, can take up a lot of resource and force change. Without a strong business case and senior level support, they become an easy target for cuts.
- How will you judge and monitor the success of the project?

Do you have the right team?

- Do you have IT support for export / import of data, & sustainment system integration?
- Do you have the resources to do the cleansing internally, or will you outsource?
- Who will answer the specialist questions and quality approve results?
- Is there a strong, knowledgeable project manager?

Budget, time, resources



Depth of Cleansing

- Classify (Noun Modifier)
- Cleanse (Normalised legacy data)
- Enhance (Research from 3rd party source)
- Verify (Physical inspection at warehouse)

Width of cleansing

- Basic Procurement (spend classification, correct part manufacturers and accurate part numbers)
- Sourcing / Engineering (detailed functional data for structured search and competitive sourcing)
- Suppliers and manufacturers catalogues
- Bill of Materials (relating spares to assets)
- Logistics (Export codes and logistics data)
- IT (how many ERP systems need integration)

What you need to do

Appoint a data-steward

- Knowledge of industry standards and dictionary structures
- Technical and engineering background, not IT

People resources

- Understand what is required of you during the data-cleaning project
- How many man-hours are to be allocated to the project
- Who is going to approve the results


Expectations

- Expectation on software automation need to be managed
- Some lines cannot be improved
- No alchemy is available!

Select data quality software




- 80% of companies were not confident in their material data



- 73% found it difficult or impractical to standardise it



- 66% had tried to manually clean



- 75% of those who did manually clean data were not happy with the result



Software building blocks

Dictionary

- Open standard
- Multiple classification schemas (UNSPSC, eOTD, FPAL, in-house schema)
- Dictionary build workflow
- Edit dictionary during the cleaning
- Customised for your business needs

Data-cleaning

- Project management workflow
- Centralised control, decentralised working environment
- Scalable
- Dealing with exceptions
- Multiple languages
- Reference supplier and manufacturer catalogues

Output

- Clean catalogue
- De-duplicated
- Ability to edit the clean catalogue
- Clean manufacturers list
- Dynamic description build
- Output to multiple ERPs

Dictionary

Taxonomy

- Existing content
- Ownership by customer
- Value control and management
- Attribute range control
- Pictures and help
- Definitions of terms
- ISO 8000 compliant

Classification

- Mapped to taxonomy
- Multiple schemas
- Multiple levels
- Rule construction for specials – automate everything!

Multi Language

- Unlimited
- Double-byte sets
- Synonyms
- Common usage
- Translation context

Structured templates

- Nouns The main name of the item
- Modifiers A word or phrase that modifies the Noun
- Attributes The required characteristic detail (set by Noun Modifier, with order and priority)
- Attribute Values Pre-loaded lists of valid values / numeric ranges

Full range of templates

- PVF - Pipe, Valves and Fittings
- BBS - Bearings, Belts and Seals
- HVAC - Heating, Venting and Air Conditioning
- Electrical - Switches, Lamps, Fuses, Cable and Conduit
- Electronic - PCB (Printed Circuit Boards) and Modules, Diodes, Capacitors
- Motors, Gears, Fasteners, Filters, Compressors, Pumps, Gaskets, Pneumatic
- Instrumentation - Pressure Transmitters and Transducers, Gauges, Meters, Relays
- General Maintenance - Abrasives, Tools, Lubricants and Sealants, Welding Supplies and Gases
- Industry specific templates - e.g. OCTG, Pup Joints for Oil & Gas
- Miscellaneous - Consumables, Office Supplies, Chemicals, Lab Equipment

Multiple Language Support

- Integrated multi language capability for automated translations and operations

Classification mapping

My Actions | Cross-Reference | Dictionary | Catalogues | Reports | Outputs | Upload | Admin

Dictionary | Classification Admin | Classification Code Mappings

Search

| Noun | Modifier | Code Type | Code | Level 1 Desc | Level 2 Desc | Level 3 Desc | Level 4 Desc | Approved By | Approved On |
|----------|----------|-----------|---|---|---|------------------------------|--------------------|--------------|-------------|
| ABRASIVE | BELT | UNSPSC | 31191507 - Abrasive belts | Manufacturing Components and Supplies | Grinding and polishing and smoothing materials | Abrasives and abrasive media | Abrasive belts | | 14/01/2009 |
| BELT | ANY | UNSPSC | belt | Material Handling and Conditioning and Storage | Material handling machinery and equipment | | belting | David Stroud | 19/08/2009 |
| BELT | CONVEYOR | UNSPSC | 24101715 - Conveyor belting 24101718 - Conveyor belt lacing or fasteners | Material Handling and Conditioning and Storage | Material handling machinery and equipment | | belting | David Stroud | 19/08/2009 |
| BELT | ELEVATOR | UNSPSC | 24112403 - Tool belts | Material Handling and Conditioning and Storage | Material handling machinery and equipment | | belting | David Stroud | 19/08/2009 |
| BELT | SAFETY | UNSPSC | 26111801 - V belts 26111802 - Geared timing belts | Defense and Law Enforcement and Security and Safety | Personal safety and protection | | harnesses or belts | | 14/01/2009 |
| BELT | TOOL | UNSPSC | 31191507 - Abrasive belts 46182306 - Safety harnesses or belts | Material Handling and Conditioning and Storage | Containers and storage | | | | 14/01/2009 |
| BELT | | UNSPSC | 53102501 - Belts or suspenders | Power Generation and Distribution Machinery and Accessories | Batteries and generators and kinetic power transmission | | timing belts | | 14/01/2009 |
| BELT | | UNSPSC | 26111801 - V belts | Power Generation and Distribution Machinery and Accessories | Batteries and generators and kinetic power transmission | Drive components | V belts | | 14/01/2009 |
| BELT | | UNSPSC | 24101715 - Conveyor belting | Material Handling and Conditioning and Storage | Material handling machinery and equipment | Conveyors and accessories | Conveyor belting | | 14/01/2009 |
| DRE | | UNSPSC | 10170000 - Fertilizers and plant nutrients and herbicides | Live Plant and Animal Material and Accessories and Supplies | Fertilizers and plant nutrients and herbicides | | | David Stroud | 04/09/2009 |
| FAS | | UNSPSC | 26111802 - Geared timing belts | Power Generation and Distribution Machinery and Accessories | Batteries and generators and kinetic power transmission | Drive | belts | David Stroud | 04/09/2009 |
| LACING | BELT | UNSPSC | 24101718 - Conveyor belt lacing or fasteners | Material Handling and Conditioning and Storage | Material handling machinery and equipment | Conve | lacing or | | 14/01/2009 |
| SCRAPER | BELT | UNSPSC | 24101700 - Conveyors and accessories | Material Handling and Conditioning and Storage | Material handling machinery and equipment | Conve | | | 14/01/2009 |

Advanced drop down controls with formatting and AJAX callback for improved page speed, and inbuilt data validation

Excel-like features including:
- multi column sort
- autoFilter
- column re-ordering
- column locking
- autofill (for editable)

Save page layouts for different tasks and export data to excel

1 Go 1 of 1 (13) 20 Default

The dictionary

| Common Usage | Noun | Modifier | Qualifier | Image |
|--------------|-------|-----------|-----------|-------|
| | MOTOR | AC | ANY | |
| | MOTOR | AC BRAKED | ANY | |
| | MOTOR | DC | ANY | |
| | MOTOR | DC BRAKED | ANY | |

1 of 1 (4)

2500 dictionary templates, each with ability to define required attributes, including:

- field type
- attribute order
- units of measure
- text / numeric types with validation

| | ! | ⚠ | ⊘ | Attribute Name | UOM | Entry Type |
|--|--------------------------|-------------------------------------|-------------------------------------|---------------------|-----|------------|
| | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | TYPE | | Open Text |
| | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | OUTPUT POWER | kW | Open Text |
| | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | POLE | P | Open Text |
| | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | FRAME SIZE | mm | Open Text |
| | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | MOUNT | | Open Text |
| | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | ENCLOSURE | | Open Text |
| | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | VOLTAGE | V | Open Text |
| | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | FREQUENCY | Hz | Open Text |
| | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | HAZARD PROTECTION | | Open Text |
| | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | FRAME MATERIAL | | Open Text |
| | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | INSULATION CLASS | | Open Text |
| | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | SHAFT SIZE (DIA/LG) | | Group |
| | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | TERMINAL POSITION | | Open Text |
| | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | ROTATIONAL SPEED | rpm | Open Text |
| | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | CONSTRUCTION | | Open Text |

Group

| Attribute Value | Count | |
|-----------------|-------|--|
| CLASS B | 8 | |
| CLASS E | 1 | |
| CLASS F | 19 | |
| CLASS F/B | 27 | |
| T4 | 0 | |

Replace Attribute Value

New attribute values can be reviewed and approved for use or replaced / merged

Multi-language

The screenshot shows a multi-language interface for the word 'BEARING'. It features three main panels: 'Word', 'Language', and 'Synonym'. A red box highlights a sub-menu for 'BEARING BALL', which contains a list of related terms and their translations in various languages.

| Word | Type |
|---------|------|
| BEARING | NMQ |

1 of 1 (1)

| Language | Translation |
|------------|-------------|
| English | BEARING |
| French | ROULEMENT |
| Russian | ПОДШИПНИК |
| Chinese | 轴承 |
| English | BEARING |
| German | LAGER |
| Portuguese | ROLAMENTO |
| Finnish | LAAKERI |

| Synonym | |
|----------|--|
| BEARIN | |
| BEARINGS | |
| BEARING | |
| BEARNING | |
| BEARRING | |
| BERING | |
| BRG | |

| NMQ | Language | Common Usage |
|----------------------|------------|--------------------|
| ADAPTER BEARING | English | |
| BALL BEARING | French | ROULEMENT A BILLES |
| BAR | Russian | |
| BEARING | Chinese | |
| BEARING BALL | English | |
| BEARING CAM FOLLOWER | German | KUGELAGER |
| BEARING CONE | Portuguese | |
| BEARING CUP | Finnish | KUULALAAKERI |
| BEARING CUP/CONE | Swedish | |
| BEARING FLANGE | Dutch | |

| | |
|---------|-------|
| Finnish | PALLO |
| Swedish | BALL |
| Dutch | BAL |

Detail, help and classification

DRESSER : 1234-ABCD

Temporary Internal Catalogue

ABRASIVE;BELT: SANDING, 10X60X0.5mm, ZIRCONIA ALUMINA, 36

18

Plant Item Selection

QA Status Assigned U

Item Detail

Requests

Master Data

Noun Modifier

TYPE

WIDTH

LENGTH

THICKNESS

MATERIAL

GRIT

CONSTRUCTION

Standard

Specification

Brand

Base UOM

| UNSPSC | |
|--------------|--|
| Code | 31191507 |
| Level 1 Desc | Manufacturing Components and Supplies |
| Level 2 Desc | Grinding and polishing and smoothing materials |
| Level 3 Desc | Abrasives and abrasive media |
| Level 4 Desc | Abrasive belts |

| Material Group | |
|----------------|------------------|
| Code | G14 |
| Level 1 Desc | GENERAL SUPPLIES |

Automated mapping to multiple classification schema from plain language selection of Noun and Modifier

- Related Documents
- Related Catalogue Items
- Tag Numbers
- Drawing Numbers

Attributes held at granular levels enables:


- auto description build
- reduced duplication
- better parametric searching

User help embedded within system to ensure correct item selection

Descriptions

| | | |
|-------------------|--|----|
| Clean Short Desc. | ABRASIVE;BELT: SANDING, 10X60X0.5mm, ZIRCONIA ALUMINA, 36 | 57 |
| Clean Long Desc. | Noun: ABRASIVE Modifier: BELT Type: SANDING Dimensions: 10X60X0.5mm Material: ZIRCONIA ALUMINA Grit: 36 Part Manufacturer: DRESSER Part Number: 1234-ABCD | 0 |

Noun Modifier Help



A band with a single layer of flexible, granule coated cloth or paper for sanding, buffing, or cleaning a surface.

| | |
|-----------|----------|
| Noun | ABRASIVE |
| Modifier | BELT |
| Qualifier | ANY |
| Notes | |

ISO 8000 Information

| | |
|----------------|---------------|
| ESC Identifier | 086046 |
| ESC Name | BELT:ABRASIVE |

Similar Noun Modifiers

| | |
|------|---|
| BELT | IF THE WORDS BELT AND ABRASIVE, ALUMINUM OXIDE, CARBORUNDUM OR ZIRCONIA ALUMINA ARE CONTAINED IN THE DESCRIPTION, CLEANSE TO ABRASIVE, BELT |
|------|---|

Control your attribute values

Dictionary > UAV Admin

Search

Noun Modifier: All
Attribute: All
Attribute Value: All
Status: Unapproved
Created By: All
Created Date: On
Exclude Zero Count:

Search Clear

Search criteria

Project control

| Noun Modifier | Noun Modifier Quality | Attribute Name | Attribute Value | Replace | Translation | Parts Usage | Catalogue Usage | Approved | Created By | Created On | Approved By | Approved On |
|-------------------|-----------------------|----------------|----------------------|---------|-------------|-------------|-----------------|-------------------------------------|--------------------|------------|-------------------|-------------|
| KIT | ✓ | TYPE | AIR | | | 58 | 0 | <input type="checkbox"/> | Jonathan Melunsky | 04/06/2010 | | |
| SEAT VALVE | ✓ | TYPE | ASSEMBLY | | | 1 | 1 | <input checked="" type="checkbox"/> | Hilarie Kennedy ✓ | 16/08/2010 | Jonathan Melunsky | 28/09/2010 |
| CIRCUIT BREAKER | ✓ | TYPE | C | | | 1 | 0 | <input type="checkbox"/> | David Stroud ✓ | 03/08/2009 | | |
| ABRASIVE PAD | ✓ | TYPE | COMPRESSOR | | | 2 | 1 | <input type="checkbox"/> | Jonathan Melunsky | 28/09/2010 | | |
| NEEDLE INDUSTRIAL | ✓ | TYPE | DIGITAL DIFFERENTIAL | | | 0 | 1 | <input type="checkbox"/> | David Stroud ✓ | 21/12/2009 | | |
| ANGLE STRUCTURAL | ✓ | TYPE | EQUAL | | | 78 | 0 | <input type="checkbox"/> | Kaja Mohadeen | 11/12/2009 | | |
| BEARING BALL | ✓ | TYPE | MAIN | | | 7 | 1 | <input type="checkbox"/> | David Stroud ✓ | 17/12/2009 | | |
| BEAD ABRASIVE | ⚠ | TYPE | MAIN | | | 2 | 2 | <input type="checkbox"/> | Alister Coates ✓ | 26/05/2010 | | |
| WASHER THRUST | ✓ | TYPE | SPLIT | | | 1 | 1 | <input checked="" type="checkbox"/> | Hilarie Kennedy ✓ | 16/08/2010 | Jonathan Melunsky | 28/09/2010 |
| YOKE | ✓ | TYPE | STAINLESS STEEL | | | 1 | 1 | <input type="checkbox"/> | Andrew Stroud - sF | 13/09/2010 | | |

Catalogue

External

Direct import of data from manufacturer or other trusted source

Supersession management

Internal

Grouping of cleansed data by part numbers with each matching legacy line inheriting functional data

Functional

Grouping of cleansed data by functional attributes

(no Manufacturer / Part Number combination)

Plant Item Selection

| Select | Location | Orig. Mat. No. | Orig. Man. Name | Orig. Part No. | Orig. Brand | Short Description | UOM | Tag | Select | |
|--------|-------------|----------------|-----------------|----------------|-------------|---|-----|-----|--------|-------------------------------------|
| | ATHENS (LN) | 105800 | | | | THERMOMETER, 6", 50-170 DEG F BACK CONNECTION 6' CAPILLARY TUBING & BULB 21S172J FOR SUCTION OIL TEMPERATURE ON SEAL OIL PUMP | EA | | | <input checked="" type="checkbox"/> |

QA Status Assigned User

Item Detail

Requests

Master Data

This item description has not been authorised.

Noun Modifier THERMOMETER

TYPE

DIAL SIZE 6 in

CONNECTION SIZE

CONNECTION TYPE

TEMPERATURE RANGE 50-170 deg

CASE MATERIAL

CONNECTION MATERIAL

CONNECTION LOCATION BACK

STEM DIAMETER

STEM LENGTH

ACCURACY

CONSTRUCTION

sF Masterpiece V3 --- Webpage Dialog

http://jaguar.sparesfinder.net/AddTags.aspx?Popup=True&PartID=15298&RequestT

Tag Name

| Tag Name | Count | Assigned By | Assigned On | |
|------------------------|-------|-------------------|-------------|--|
| NHS SPECIAL | 1 | David Stroud | 15/07/2010 | |
| REVIEW CONNECTION TYPE | 1 | Jonathan Melunsky | 27/09/2010 | |

http://jaguar. Internet | Protected Mode: Off

Add multiple free text tags to line items

Audit trail

| Location | Orig. Mat. No. | Orig. Man. Name | Orig. Part No. | Orig Desc | Orig Long Desc |
|----------|----------------|-----------------|----------------|------------------------|--|
| Barton | 3763808 | | | COLLAR, SEAL, 4.506*** | MATERIAL = SIZE = 4.506*** TYPE = SEAL |

Description History Other Data

| | 28/09/2010 15:26:58 | 28/09/2010 15:23:24 | 28/09/2010 15:22:06 | 28/09/2010 15:21:06 | 28/09/2010 15:20:41 | 28/09/2010 15:20:08 | 28/09/2010 15:19:53 | 28/09/2010 15:19:29 | 13/09/2010 14:34:48 |
|---------------------------|------------------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|
| Changed By | Jonathan Melunsky | Jonathan Melunsky | Jonathan Melunsky | Jonathan Melunsky | Jonathan Melunsky | Jonathan Melunsky | Jonathan Melunsky | Jonathan Melunsky | Alister Coates |
| Brand/Manufacturer | AEROQUIP CORPORATION | AEROQUIP CORPORATION | AEROQUIP CORPORATION | AEROQUIP CORPORATION | | | | | |
| Clean Part No | 9876789 | 9876789 | 9876789 | 9876789 | | | | | |
| Noun Modifier | ABRASIVE PAD | ABRASIVE PAD | ABRASIVE PAD | ABRASIVE PAD | ABRASIVE PAD | ABRASIVE BELT | ABRASIVE BELT | ABRASIVE BELT | ABRASIVE BELT |
| TYPE | COMPRESSOR | COMPRESSOR | COMPRESSOR | COMPRESSOR | COMPRESSOR | COMPRESSOR | BLUE | BLUE | |
| WIDTH | 1/2 (mm) | 1/2 (mm) | 1/2 (mm) | 1 (mm) | 1 (mm) | 1 (mm) | 1 (mm) | 1 (mm) | |
| DIAMETER | 1-1/8 (mm) | 1-1/8 (mm) | 1-1/8 (mm) | 1-1/2 (mm) | 1-1/2 (mm) | | | | |
| LENGTH | 10 (mm) | 10 (mm) | 10 (mm) | 10 (mm) | 10 (mm) | 10 (mm) | 10 (mm) | 10 (mm) | |
| THICKNESS | 1/32 (mm) | 1/32 (mm) | 1/16 (mm) | 1/16 (mm) | 1/16 (mm) | 1/16 (mm) | 1/16 (mm) | | |
| MATERIAL | ALUMINIUM OXIDE | ALUMINIUM OXIDE | ALUMINIUM OXIDE | ALUMINIUM OXIDE | ALUMINIUM OXIDE | | | | |
| GRIT | 120 | 120 | 120 | 120 | 120 | 120 | 120 | | |
| COLOUR | AMBER | AMBER | CANARY YELLOW | CANARY YELLOW | CANARY YELLOW | | | | |
| CONSTRUCTION | NOT THAT SOLID | NOT THAT SOLID | NOT THAT SOLID | NOT THAT SOLID | NOT THAT SOLID | NOT THAT SOLID | VERY SOLID | VERY SOLID | |
| Model Number | | | | | | | | | |
| General Notes | | | | | | | | | |
| Equipment Notes | FOR THAT BIG MACHINE IN THE CORNER | | | | | | | | |
| Purchasing Notes | | | | | | | | | |

Who added the values, and when

Excel usability with control

Cleaning > Search

Search

| Orig. Mat. No. | Orig. Man. | Orig. Part No. | Short Description | Long Description | UOM | Match | Brand / Manufactu | Clean Part No | Clean UOM | Noun Modifier | Clean Short Desc. | sF Master Number | Clean | Tags | Research Notes | Audit |
|----------------|------------|----------------|--------------------------------------|-------------------------------|------|-------|-------------------|----------------|-----------|--------------------------|---|------------------|-------|------|--------------------------|-------|
| 25000000015780 | | A60123405 | Print Block Anvil | | EA | | BLOCK | A60123405 | EACH | BLOCK | BLOCK;BLOCK,A6012 | | | | ADVICE "NMQ" | |
| 5000029091332 | | G06-012.0-1.5V | O RING END OF PROBE PART | O RING END OF PROBE | EACH | | | G06-012.0-1.5V | EACH | O-RING | O-RING;G06-012.0-1.5V | 11675 | | | | |
| 50000201000107 | | | NP - O RING EP W SEAT | E P O RING CODE | EACH | | JOHN CRANE | 3260/123/135 | EACH | O-RING | O-RING;EPR, JOHN CRANE, 3260/123/13 | 14024 | | | | |
| 50000301690004 | | | FILTER VOKES ABS | VOKES ABS:FILTER | EACH | | VOKES AIR | B96012/5/R | EACH | FILTER PANEL | FILTER:FILTER;ABS015313 STEEL, > | | | | | |
| 50000272670002 | | | NP - AIR FILTER | ELEMENT AIR FILTER | EACH | | BROOMWADE | C16012/52 | EACH | FILTER ELEMENT | FILTER:ELEMENT;AIF17115 | | | | IN SOURCE VALUE GIVEN AS | |
| 50000301685027 | | 96012/ | FILTER VOKES AIR 24 X 24 X | VOKES AIR FILTER 24" X | EACH | | VOKES AIR | 96012/5/S | EACH | FILTER PANEL | FILTER:FILTER;MTL,217985 | | | | | |
| 50000301690320 | | | FILTER VOKES 24X 6(609 X609 77MA/4/S | VOKES 24X 6(609 X609 77MA/4/S | EACH | | VOKES AIR | 96012/4/5 | EACH | FILTER PANEL | FILTER:FILTER;ABS018013 | | | | | |
| 50000276880157 | | 6.01.21630 | NP - SPARE LIPS PTFE | LIPS SPARE PTFE | EACH | | HOWARD FILTER | 6.01.21630 | EACH | SEAL SHAFT | SEAL:SHAFT;PTFE,H19380 FILTER, 6.01.21630 | | | | | |
| 50000271490034 | | | NP - BEARING 6012 POSITION | BEARING 6012 POSITION NO. | EACH | | SKF | 6012 | EACH | BEARING DEEP GROOVE BALL | BEARING:DP GRV BALL;60X95X 18mm,S | 21152 | | | | |
| 50000273320098 | | | NP - BEARING BALL SKF 6012 | BALL BEARING SKF 6012 FOR | EACH | | SKF | 6012 | EACH | BEARING DEEP GROOVE BALL | BEARING:DP GRV BALL;60X95X 18mm,S | 21152 | | | | |
| 55000000002718 | | 00000798 | BEARING 6012-P5 | BEARING 6012-P5. | EACH | | SKF | 6012-P5 | EACH | BEARING DEEP GROOVE BALL | BEARING:DP GRV BALL;60X95X 18mm,S | 23148 | | | | |
| 50000308585088 | | 6012.2RS | BEARING REF 6012.2RS FOR | BEARING REF: 6012.2RS FOR | EACH | | SKF | 6012-2RS1 | EACH | BEARING DEEP GROOVE BALL | BEARING:DP GRV BALL;60X95X 18mm,D | 23598 | | | | |
| 20000007003707 | | | BEARING REF 6012-ZZ | >>>> BEARINGS | EA | | SKF | 6012-ZZ | EACH | BEARING DEEP GROOVE BALL | BEARING:DP GRV BALL;60X95X 18mm,D | 24344 | | | | |
| 50000276880165 | | 6.01.23015 | NP - BELT V 703.16.01.16 | BELT V 703.16.01.16 | EACH | | | 6.01.23015 | EACH | BELT WEDGE | BELT:WEDGE;NARRC24587 WRAPPED,SPZ,9.7mi | | | | | |
| 50000273830004 | | 2260/123/135 | O RING EPDM 2260/123/135 | EPDM O RING PART NO. | EACH | | JOHN CRANE | 2260/123/135 | EACH | O-RING | O-RING;EPDM,JOHN CRANE,2260/123/13 | 31038 | | | | |
| 50000303001408 | | 3560/123/280 | O RING PTFE ENCAPSULATED | PTFE ENCAPSULATED | EACH | | | 3560/123/282 | EACH | O-RING | O-RING;PTFE ENCAPSULATED,3560 | 32334 | | | | |
| 50000246400009 | | | NP - CYL VESSEL QVF | VESSEL CYLINDRICAL | EACH | | QVF | GMVZ 60/12 | EACH | VESSEL | VESSEL;CYLDRCL,12 35050 > | | | | | |
| 50000007016544 | | 6.01 | O RING | 74245 POSITION | EA | | FLUIDA | 6.01.24245 | EACH | O-RING | O- | 36608 | | | | |

Data entry

ALLEN BRADLEY : 509-DOD Active Internal Catalogue

▼ Plant Item Selection

| Location | Plant Mat No | OEM Name | OEM Part No | Brand | Original Short Description | UOM |
|----------------------|--------------|---------------|-------------|-------|--|-----|
| Ralston Battle Creek | 35168 | ALLEN BRADLEY | 509-DOD | | STARTER MOTOR SIZE 3 | EA |
| Post Battle Creek | 50081011 | | 509-DOD | | ELEC MTR STARTER 509-DOD AB 120 V | |
| Post Battle Creek | K63432171067 | ALLEN BRADLEY | 509DOD | | STARTER A/B 509DOD, SIZE 3, 3PHASE, INCL | |

QA Status: Quality Approved | Assigned User: David Stroud

▼ Item Detail

Master Data

Noun Modifier: STARTER MOTOR

TYPE: abc [dropdown]

NEMA SIZE: abc NEMA 3

VOLTAGE: abc 120 V

CURRENT TYPE: abc [dropdown]

CURRENT: abc [dropdown]

COIL VOLTAGE: abc [dropdown]

POWER: abc [dropdown]

POLE: abc [dropdown]

PHASE: 123 3 PH

CONTACTS: abc [dropdown]

FREQUENCY: abc [dropdown]

CONSTRUCTION: abc [dropdown]

Brand: [dropdown]

Other Master Catalogue Data

Base UOM: [dropdown]

Related Documents

▼ Descriptions

| | | |
|------------|--|----|
| Short Desc | STARTER:MOTOR; NEMA 3, 120V, 3PH | 30 |
| Long Desc | Noun: STARTER Modifier: MOTOR; Nema Size: NEMA 3 Voltage: 120V Phase: 3PH OEM: ALLEN BRADLEY PN: 509-DOD | 98 |

Group of matches. All records linked to single master

Descriptions automatically built from attribute data

Project overview

Multiple profiles

Track quality states

Multiple languages

masterpiece sparefinder

Jonathan Melunsky Log-off

My Actions Cleaning Dictionary Master Reports Outputs Source Admin

Cleaning > Grids > Location

Display Project QA profile grid (paged), grouped by Location which Contains

| Location | Total | Loaded | Scanned | In Progress | Checked | Quality Controlled | Quality Approved | Accepted | Pending | Rework |
|------------------|-------|--------|---------|-------------|---------|--------------------|------------------|----------|---------|--------|
| Accident | 21 | 0 | 7 | 7 | 4 | 0 | 0 | 1 | 0 | 2 |
| ACCIDENT (LN) | 209 | 0 | 201 | 7 | 1 | 0 | 0 | 0 | 0 | 0 |
| Accident 2 | 30 | 0 | 29 | 1 | 0 | 0 | 0 | 0 | 0 | 0 |
| Armagh | 5 | 0 | 1 | 2 | 0 | 0 | 0 | 0 | 0 | 2 |
| ARMAGH (LN) | 17 | 0 | 13 | 3 | 0 | 0 | 0 | 0 | 1 | 0 |
| Athens | 5 | 0 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| ATHENS (LN) | 111 | 0 | 102 | 8 | 0 | 1 | 0 | 0 | 0 | 0 |
| BAILEYVILLE (LN) | 4 | 0 | 0 | 3 | 1 | 0 | 0 | 0 | 0 | 0 |
| Bald Knob | 6 | 0 | 4 | 0 | 2 | 0 | 0 | 0 | 0 | 0 |
| BALD KNOB (LN) | 24 | 0 | 24 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Barton | 14 | 0 | 0 | 5 | 4 | 2 | 1 | 2 | 0 | 0 |
| BARTON (LN) | 158 | 0 | 131 | 20 | 6 | 0 | 0 | 0 | 0 | 1 |
| BATESVILLE (LN) | 3 | 0 | 0 | 0 | 1 | 0 | 0 | 1 | 0 | 1 |
| Baytown | 25 | 0 | 25 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| BAYTOWN (LN) | 9 | 0 | 2 | 7 | 0 | 0 | 0 | 0 | 0 | 0 |
| Bechtelsville | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

Drill-downs

Link to cleaning grids



ASP, On-demand, Software as a Service,
Cloud-computing



Centralised control & management



Decentralised execution (production, QA,
suppliers)



Dictionary updates automatically applied
to entire data-set



Catalogue data constantly updated and
always live

Data cleansing process



- Legacy data is automatically scanned for dictionary key words and nouns, modifiers and attribute values assigned
- High count missing words provided for tuning

- Part numbers are extracted from descriptive text and automatically matched with each other / catalogue using sophisticated algorithms
- Continuous process as data is saved during cleansing

- Assignment of work to users
- Audit trail of activities
- Real time view of project progress with drill down to individual items
- “Excel-like” screens and integration

- Automated routines for bulk QA checks
- Screens designed for rapid review and correction of errors
- Web links to 3rd party research information when used

Description settings

- All output data is automatically built from detailed underlying data
- Flexible settings to allow for multiple formats including
 - Field size length and multiple lines
 - Description component inclusion and order
 - Capitalization and delimiters
- Specific attributes can be grouped to reflect industry conventions
 - E.g. Dimension = “12x14x8mm” not “12mm, 14mm, 8mm”

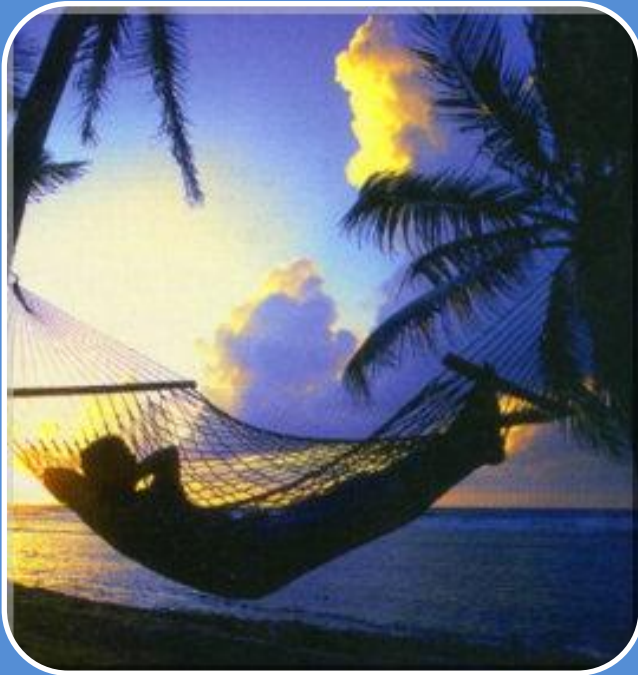
Output data management

- Specific files formats created for every customer
- Tracking of data delivery for later modification / update management
- Integration options
 - ERP protocols e.g. SAP PI
 - W3C web services using XML / SOAP
 - Txt file to secure FTP

The data-cleaning project

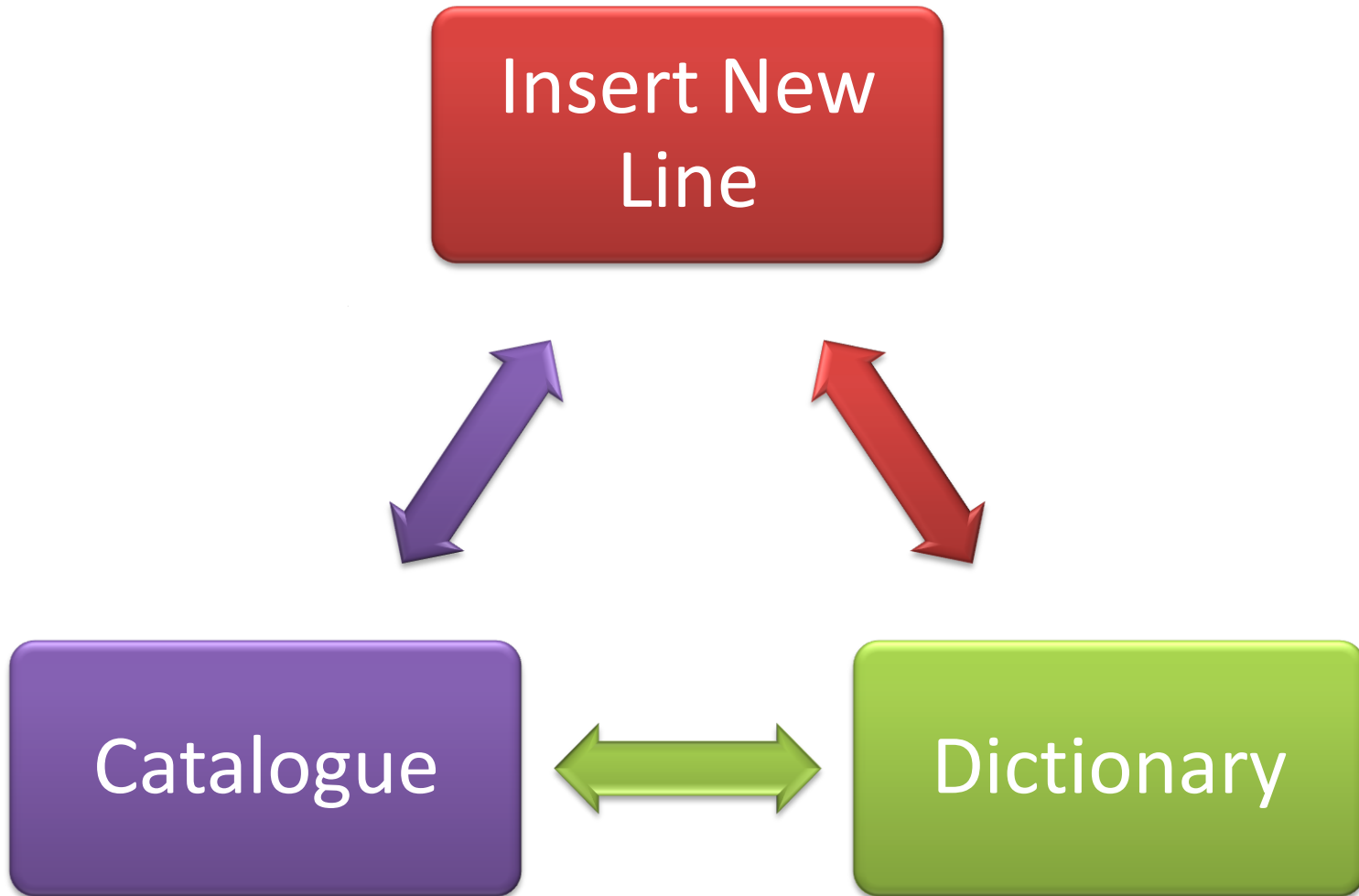


The scary bit is
over.



Data-governance

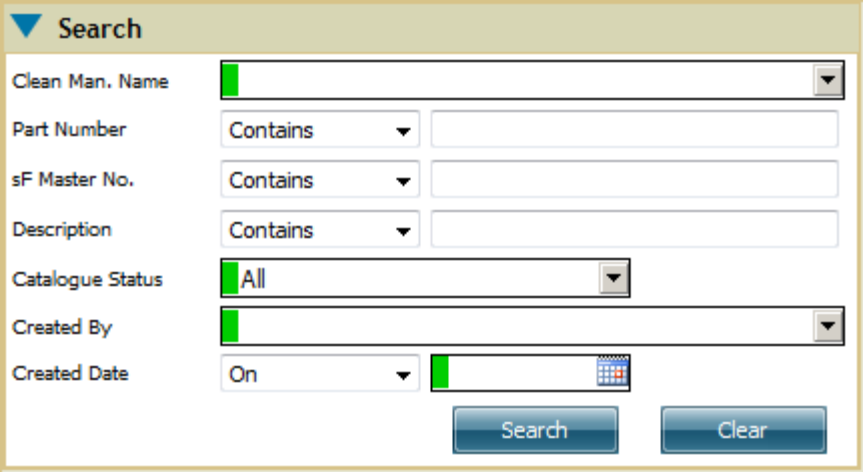
The legacy project is over



- General Search

- Free Text

- Single search string entry box
- Searches index of:
 - Manufacturer name
 - Part number
 - All descriptive words and their abbreviations & synonyms, and all translations
 - Noun, modifier, attribute value
- Can be deployed within Intranet



The screenshot shows a search interface with the following fields and controls:

- Search** (dropdown arrow)
- Clean Man. Name**: Text input field with a green highlight.
- Part Number**: Contains (dropdown) and text input field.
- sF Master No.**: Contains (dropdown) and text input field.
- Description**: Contains (dropdown) and text input field.
- Catalogue Status**: All (dropdown) with a green highlight.
- Created By**: Text input field with a green highlight.
- Created Date**: On (dropdown), text input field with a green highlight, and a calendar icon.
- Search** (button)
- Clear** (button)

Adding a new item

New Item Details

Brand / Manufacturer Name:

Part Number:

Item Description:

Simple initial data capture



My Actions | Cleaning | Dictionary | Master | Reports | Outputs | Source | Admin

Master | Insert New Line

New Item Details

Brand / Manufacturer Name: Noun Modifier: Only Extracted NMQs

Part Number: TYPE:

Item Description: POWER RATING:

FRAME:

ROTATIONAL SPEED:

HORSEPOWER RATING:

PRESSURE RATING:

CONSTRUCTION:

Existing Catalogue Items

ERP Data Level: Plant: Material Type:

| Catalogue Name | Part Number | Item Description | Info | UOM | sF Master Number | Item Status | Requests | Clone | Material Number | Add Request | Man. Name | P/N | Attrs |
|--------------------|-------------|--|------|------|------------------|-------------|----------|-------|-----------------|-------------|-----------|-----|-------|
| ANDERSON GREENWOOD | 1234567 | MOTOR; PNEU:CMPSR, 10W, 750rpm, 125psi | | Each | 38210 | Provisional | 2 | | Pending... | | = | = | |
| AITKEN | 1234567 | ABRASIVE; STONE:CUT-OFF, 1/8", 40 COARSE | | Each | 162 | Provisional | 2 | | | | | = | |
| SKF | 1234567 | ABRASIVE; BEAD:SAND BLASTING, GLASS, 36> | | Each | 161 | Provisional | 0 | | | | | = | |
| NORGREN | 12-34.567 | BEARING; NEEDLE:SINGLE ROW, 12X23X10mm,> | | Each | 46337 | Provisional | 1 | | | | | ≈ | |

1 Go 1 of 1 (4) 100

Duplicate prevention



*** TEST ***

Davi

Master | Insert New Line

New Item Details

OEM Catalogue Name

Master Part Number

Proceed

Existing Catalogue Items

Warning: An item with an Identical Part Number exists in this catalogue.

Continue

| | Clean Man. | Part Number | Description | Info | UOM | sF Material Number | Status | Matches | Clone |
|--|------------|-------------|-------------------|------|-----|--------------------|-------------|---------|-------|
| | SEW | R 60LEW | GEARMOTORELECTRIC | | | 238 | PROVISIONAL | 2 | |

Microsoft Internet Explorer



A catalogue item with identical features cannot be created. Please alter at least one field or Cancel the item creation.

OK

Checking functional matches

My Actions | Cleaning | Dictionary | Master | Reports | Outputs | Source | Admin

Master | Insert New Line

New Item Details

Brand / Manufacturer Name: ANDERSON GREENWOOD
 Part Number: 1234567
 Item Description: newmatic motor 10w 750rpm 125psi

Noun Modifier: Only Extracted NMQs ? MOTOR PNEUMATIC

TYPE: abc VANE
 POWER RATING: abc 10 W
 FRAME: abc
 ROTATIONAL SPEED: abc 750 rpm
 HORSEPOWER RATING: abc
 PRESSURE RATING: abc 125 psi
 CONSTRUCTION: abc

Clear All | Back

Existing Catalogue Items

ERP Data Level: Plant | Plant: Vancouver (Canada) | Material Type: Spare Parts (ERSA) | Create Request

| Catalogue Name | Part Number | Item Description | Info | UOM | sF Master Number | Item Status | Requests | Clone | Material Number | Add Request | Man. Name | P/N | Attrs |
|--------------------|-------------|--|------|------|------------------|-------------|----------|-------|-----------------|-------------|-----------|-----|-------|
| ANDERSON GREENWOOD | 1234567 | MOTOR; PNEU:CMPSR, 10W, 750rpm, 125psi | | Each | 38210 | Provisional | 2 | | Pending... | | = | = | ≈ |
| AIR-X-CHANGER | 34566 | MOTOR; PNEU:VANE, 10W, 750rpm, 125psi | | Each | 46336 | Provisional | 2 | | Pending... | | | | = |
| AITKEN | 1234567 | ABRASIVE; STONE:CUT-OFF, 1/8", 40 COARSE | | Each | 162 | Provisional | 2 | | | | | = | |
| SKF | 1234567 | ABRASIVE; BEAD:SAND BLASTING, GLASS, 36> | | Each | 161 | Provisional | 0 | | | | | = | |

1 | Go | 1 of 1 (9) | 100 | Default

With further attribute added, the system checks master catalogue using attribute data only

User's default request location is used to display whether each catalogue item is already available in their system

Part Screen

Requests

All Requests | Mapping Requests Only

| Data Level | ERP Instance \ Plant \ Warehouse | Material Type | Requested By | Priority | Required By Date | Status | Material | Material Description | Material Unit | Material Price | Material Stock | Material Sync |
|------------|----------------------------------|--------------------|--------------|----------|------------------|--------------------|----------|----------------------|---------------|----------------|----------------|---------------|
| ERP | UK | Spare Parts (ERSA) | David Stroud | Normal | 25/05/2010 | Request Authorised | | | | | | |
| ERP | Spain | Spare Parts (ERSA) | David Stroud | Normal | 25/05/2010 | Request Authorised | | | | | | |

Request Reason:

Reject Reason:

Open Requests Only

SAP
Client 1: Material No XX

API Pro
UK DB: Item No AAC

Cross references to API Pro / SAP / Ariba

Master Data

This item description has not been authorised.

BEARING BALL

ANGULAR CONTACT

STRAIGHT

INSIDE DIAMETER: 12 mm

OUTSIDE DIAMETER: 17 mm

WIDTH: 8 mm

CAGE MATERIAL: BRASS

ROW: []

RADIAL CLEARANCE: C3

STYLE: []

SERIES: []

UFI NUMBER: []

Manufacturer Part Number

Structured data to auto build descriptions for each system (in required languages)

Other Master Catalogue Data

Related Documents

Related Catalogue Items

| Select | sf Master No | Name | Part No | Type | Plant | Quantity | Material Sync |
|--------|--------------|---------------|------------|-----------------|------------------|----------|---------------|
| ERP | 87017 | KRONES | M43 PACKER | Higher Assembly | | 3 | |
| ERP | 57855 | RS COMPONENTS | 285-065 | Supplier | All | 0 | |
| ERP | 53037 | GRAINGER | 10029 | Supplier | plant 1 (France) | 0 | |

Tag Mappings

Drawing Numbers

Primary Supplier

Alternate Supplier

Mappings to multiple suppliers

Descriptive Data

- Global
 - Manufacturer name, part number
 - Functional descriptions
 - Documents, Bills of materials
 - Part supersession and obsolescence management
- Local
 - Supplier information

ERP data

- Specific non- descriptive fields with values set by:
 - ERP Type e.g. SAP, JDE
 - ERP Instance e.g. North America, Europe
 - Data Type e.g. Spares parts, direct materials, office supplies
 - Level of data
 - Global e.g. Hazardous transport codes
 - ERP e.g. Specific accounting codes
 - Plant e.g. Min stock level, Re-order point, lead time
 - Warehouse e.g. Bin location

ERP Attribute Management

Dictionary | ERP Field Admin

Data Level: [Warehouse] ERP Type: [MAXIMO] Material Type: [Coupons] Authority Group: [Finance] ERP Attribute Name: [VALUATION CLASS] ERP Attribute Value: [FINISHED GOODS]

| Data Level | ERP Type | Material Type | Authority Group |
|------------|----------|---------------|-----------------|
| Warehouse | MAXIMO | Coupons | Finance |
| ERP | MAXIMO | Spare Parts | Finance |
| Plant | MAXIMO | Spare Parts | Warehouse |
| Global | n/a | n/a | Logistics |
| Global | n/a | n/a | Warehouse |
| ERP | SAP | Spare Parts | Finance |

| ERP Attribute Name | UOM | Entry Type |
|---|-----|-------------|
| <input checked="" type="checkbox"/> VALUATION CLASS | | Closed Text |
| <input type="checkbox"/> PRICE CONTROL | | Closed Text |
| <input type="checkbox"/> STANDARD PRICE | | Open Number |

| ERP Attribute Value | Code | Count |
|--|------|-------|
| <input checked="" type="checkbox"/> FINISHED GOODS | FG | 10 |
| <input checked="" type="checkbox"/> RAW MATERIALS | RW | 13 |
| <input checked="" type="checkbox"/> SPARE PARTS | SP | 0 |

1 of 1 (6)

Other Master Catalogue Data

| Authority Group | Global | ERP | Plant |
|----------------------|--------|-----|-------|
| Master Data | | | |
| Finance | | | |
| Logistics | | | |
| Purchasing | | | |
| Warehouse Management | | | |

INDUSTRY SECTOR: CHEMICAL INDUSTRY

OLD MATERIAL NUMBER:

AUTHORIZATION GROUP:

Corporate ERP Structures



David Stroud
Log-off

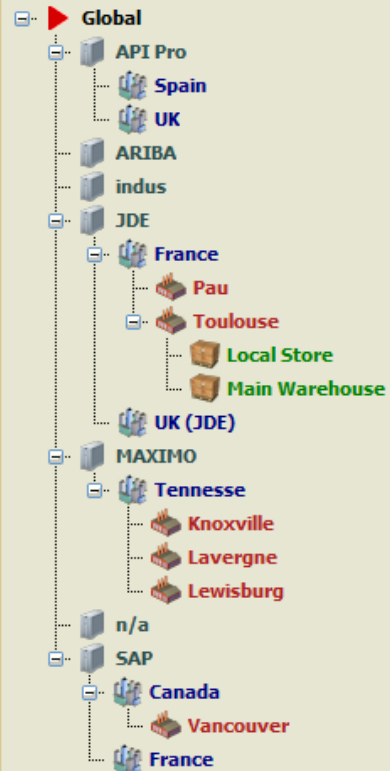


My Actions Cleaning Dictionary Master Reports Outputs

Admin | ERP Structure Management

Global

ERP Type



Material Type

Mapped Users

Authority Group User Roles

| Full Name | Catalogue Description Data | Logistics | Warehouse |
|-----------------|----------------------------|-----------|-----------|
| Tom Cave | [Icons] | [Icons] | [Icons] |
| Alister Coates | [Icons] | [Icons] | [Icons] |
| Alessio Ferreri | [Icons] | [Icons] | [Icons] |
| David Stroud | [Icons] | [Icons] | [Icons] |

Prioritise and track requests

sF Masterpiece V3 - Add Catalogue Request -- Webpage Dialog

Brand / Manufacturer Name: NORGREN

Part Number: 12-34.567

Clean Short Desc.: BEARING; NEEDLE:SINGLE ROW, 12X23X 10mm, >

ERP Data Level: Plant

Plant: Lavergne (Tennessee)

Noun Modifier: BEARING NEEDLE

Material Type: Spare Parts (ERSA)

Priority: Urgent

Required By Date: 19/03/2010

Request Reason: This is required soon

Requestor sets priorities for material request

http://jaguar.spari Internet | Protected Mode: Off



Master | Catalogue Request Grid

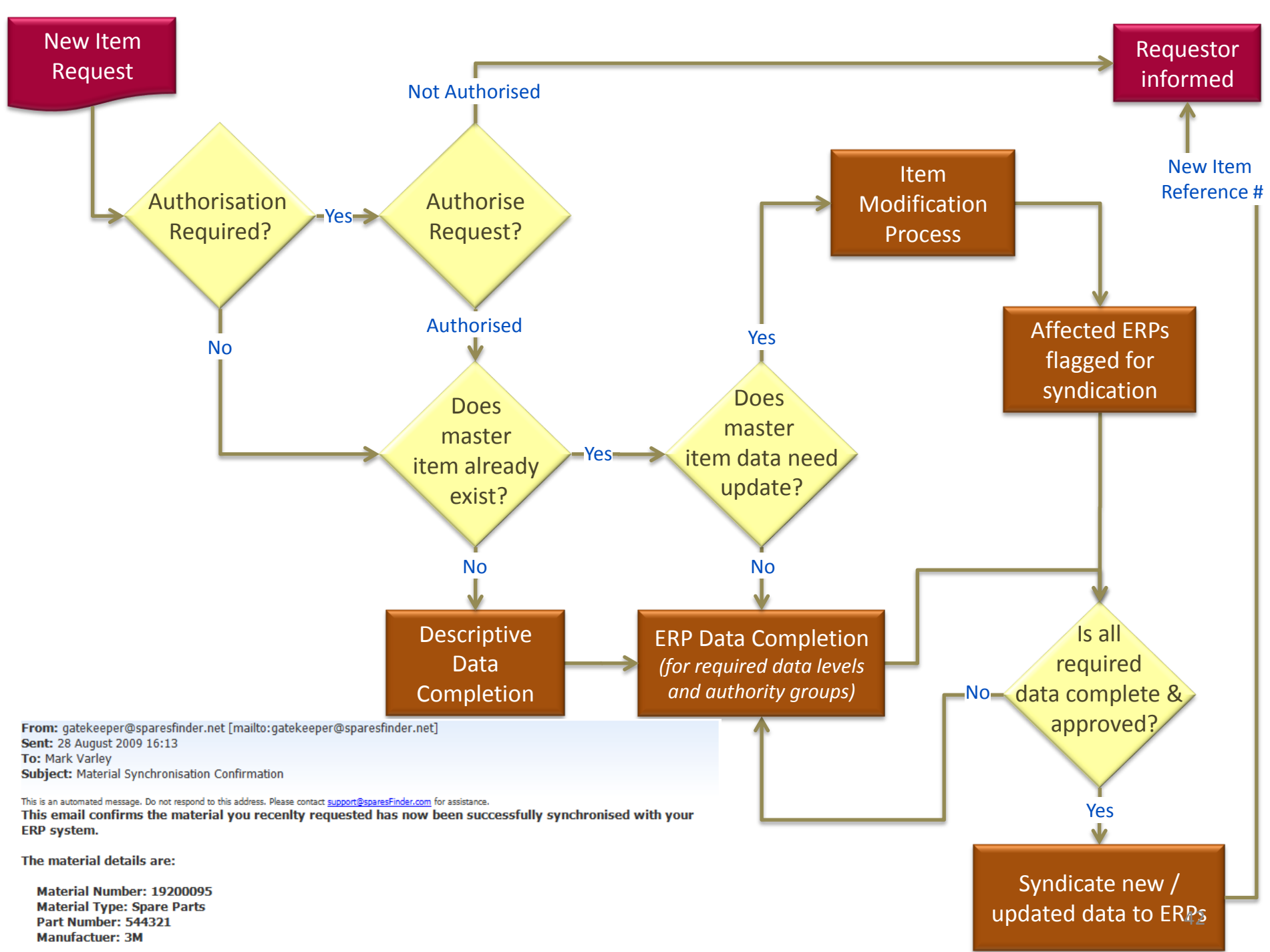
Group By Plant



Drill Down On

Warehouse

| Plant | Total | Authorisation Required | Catalogue Description Data Required | Warehouse Required | Finance Required | Logistics Required | Awaiting Synchronisation Required | Synchronised |
|-----------------------|-------|------------------------|-------------------------------------|--------------------|------------------|--------------------|-----------------------------------|--------------|
| No Plant (ERP) | 20 | 1 | 13 | 0 | 3 | 0 | 3 | 0 |
| No Plant (Global) | 17 | 8 | 4 | 0 | 2 | 0 | 3 | 0 |
| Knoxville (Tennessee) | 5 | 0 | 2 | 1 | 0 | 0 | 2 | 0 |
| Lavergne (Tennessee) | 13 | 0 | 4 | 0 | 0 | 0 | 9 | 0 |
| Lewisburg (Tennessee) | 3 | 2 | 0 | 0 | 0 | 0 | 1 | 0 |
| Vancouver (Canada) | 24 | 1 | 11 | 1 | 2 | 0 | 9 | 0 |
| plant 1 (France) | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 |
| Total (7) | 83 | 12 | 35 | 2 | 7 | 0 | 27 | 0 |

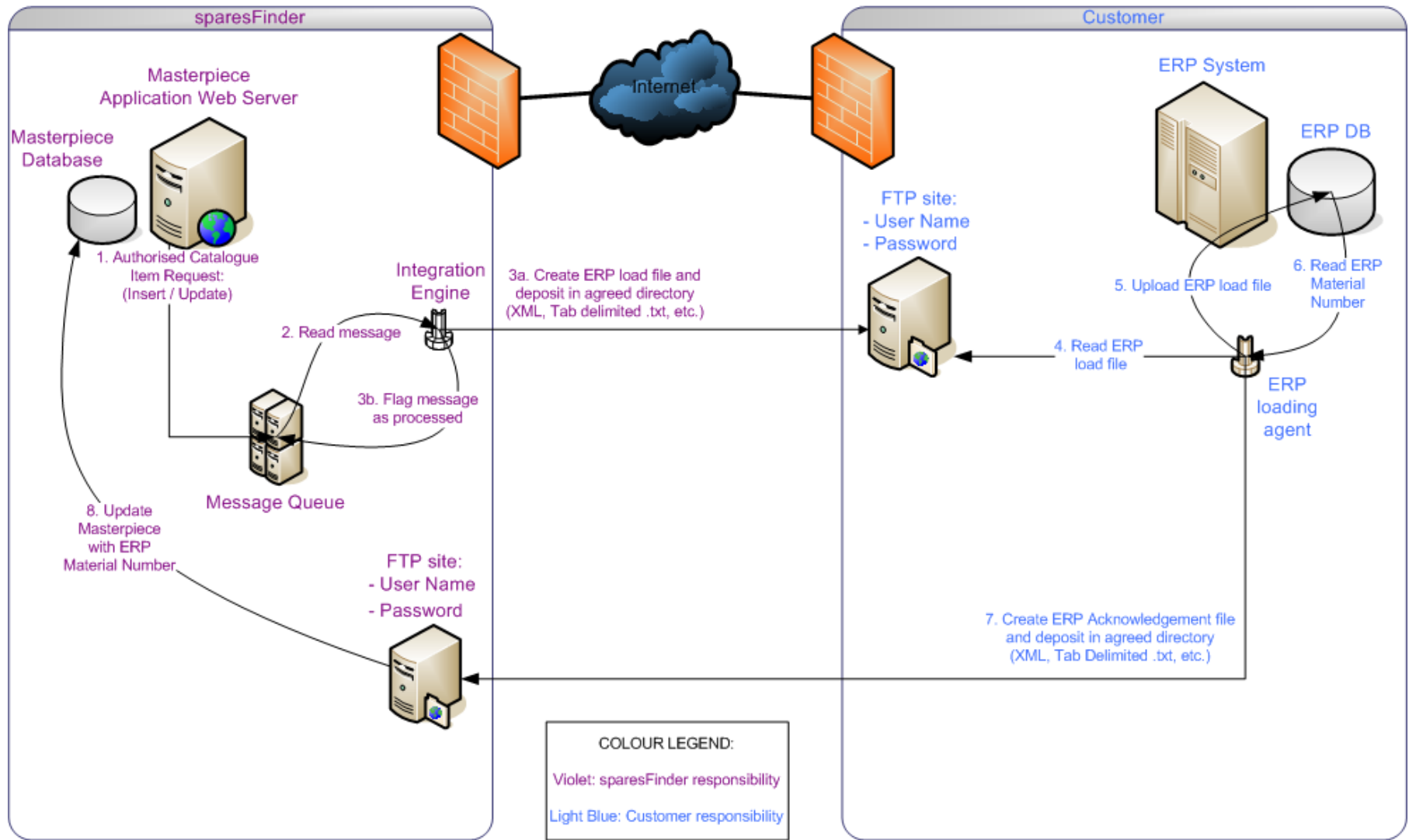


From: gatekeeper@sparesfinder.net [mailto:gatekeeper@sparesfinder.net]
Sent: 28 August 2009 16:13
To: Mark Varley
Subject: Material Synchronisation Confirmation

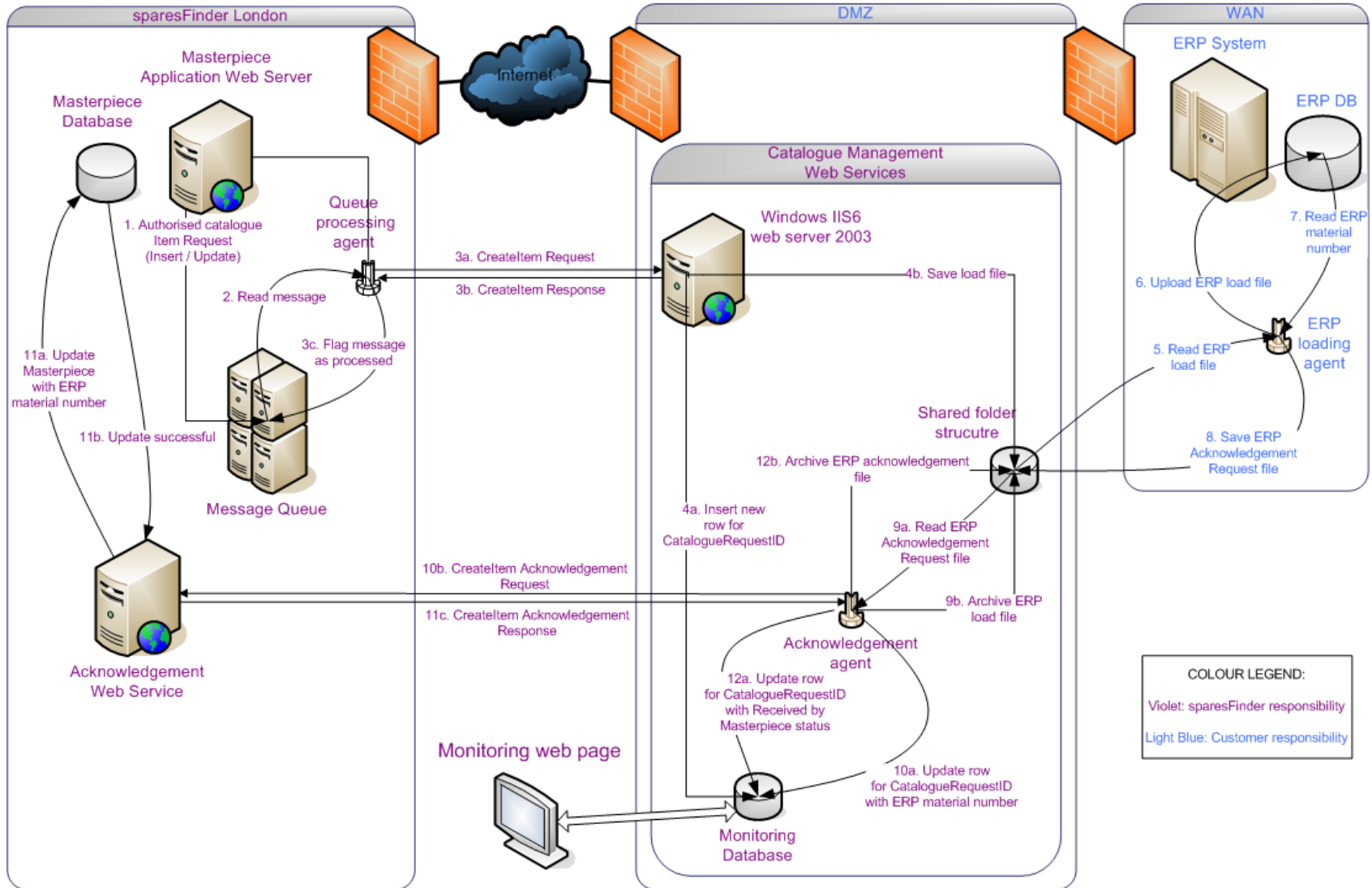
This is an automated message. Do not respond to this address. Please contact support@sparesfinder.com for assistance.
This email confirms the material you recently requested has now been successfully synchronised with your ERP system.

The material details are:
Material Number: 19200095
Material Type: Spare Parts
Part Number: 544321
Manufacturer: 3M

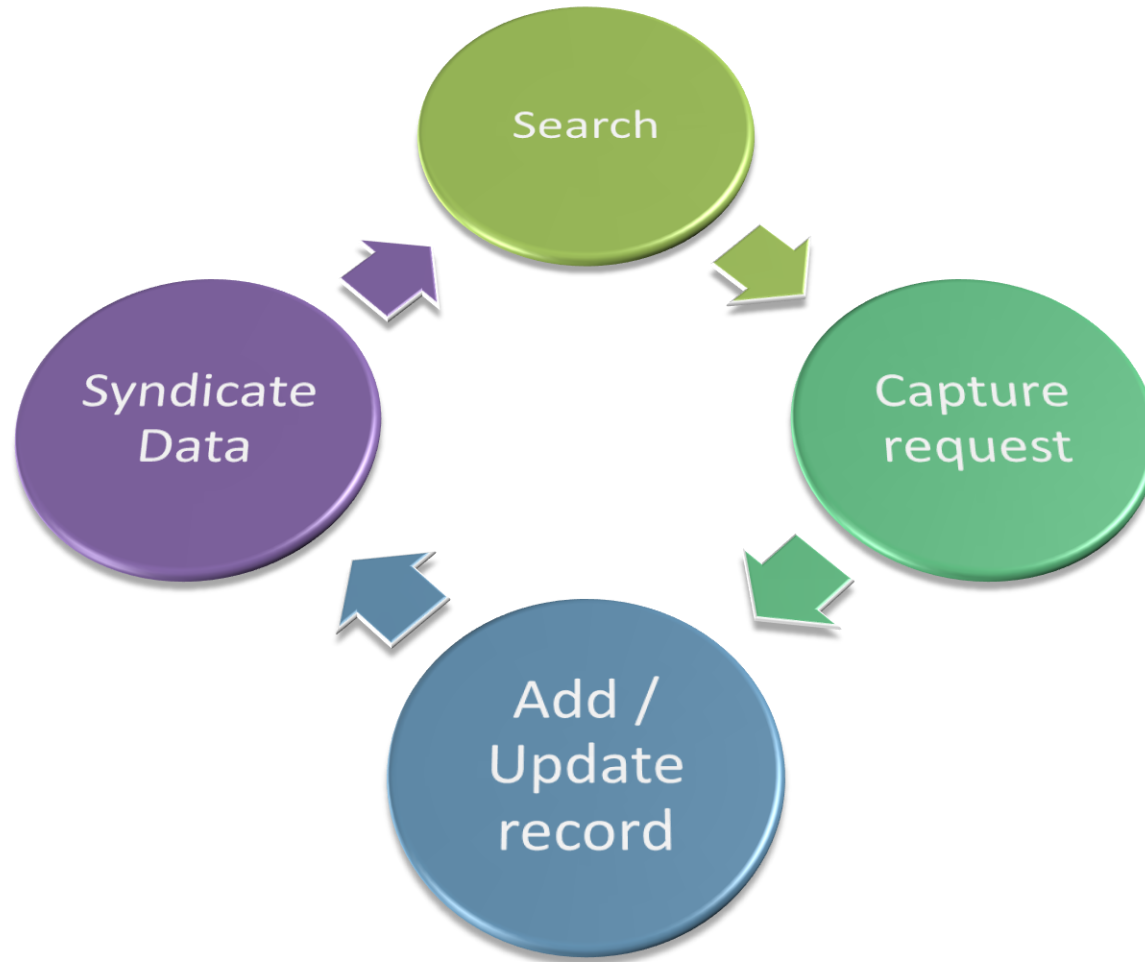
Integration (FTP)



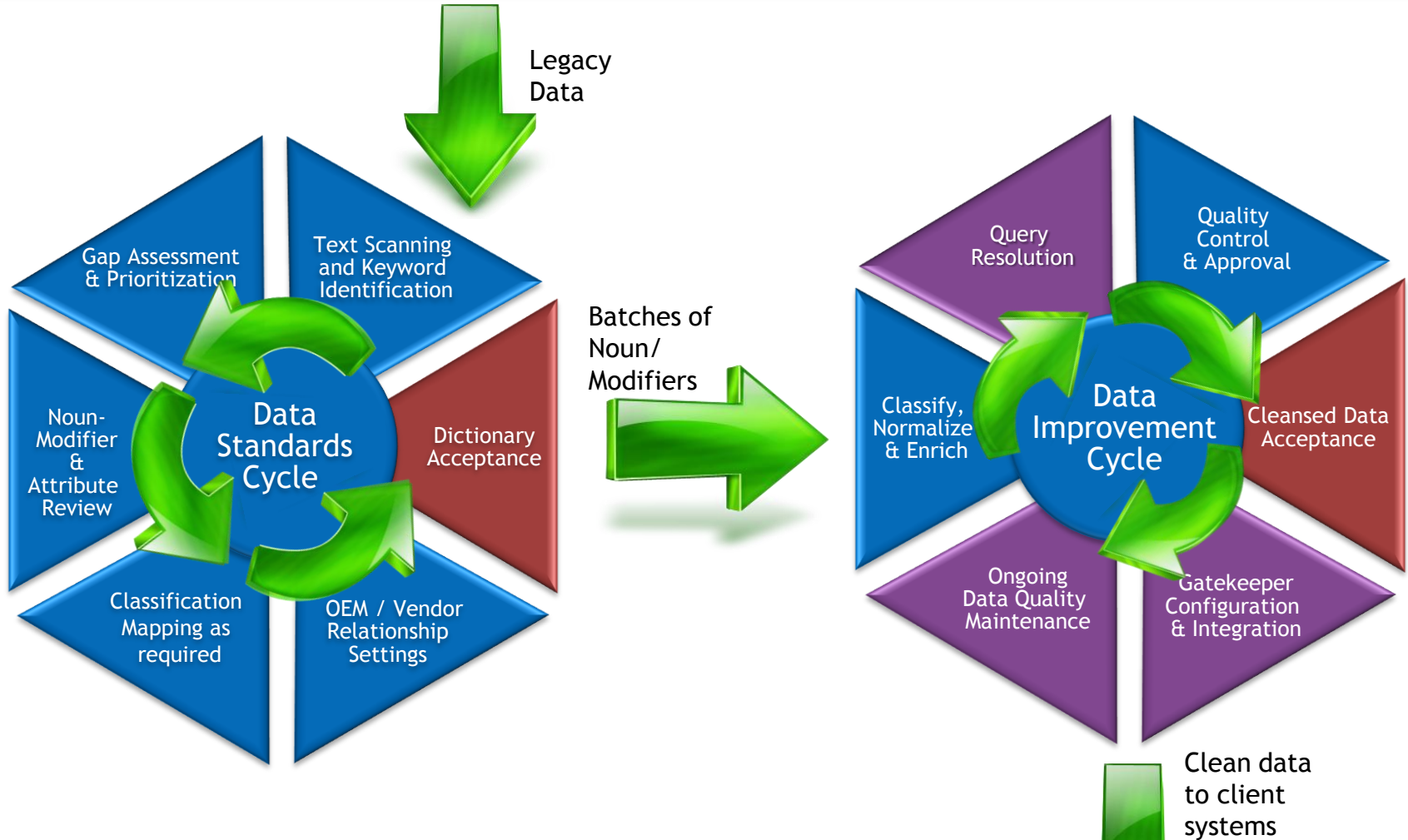
Integration: web services

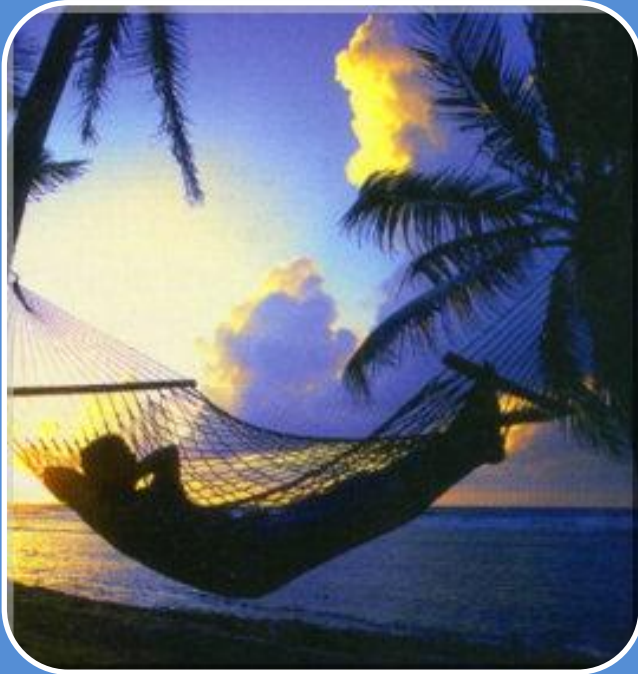


MDM functionality



Data life cycle process





A future-proofed
project.

Easy, isn't it?