

Master Data Management - Syndicator - Restrictive & Selective Syndication - Part 1: Free-Form Search



Applies to:

SAP Master Data Management (MDM). For more information, visit the [Master Data Management homepage](#).

Summary

This article strives to solve the requirement of restrictive/selective syndication with the help of Free-Form Search functionality.

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Author Bio



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Introduction

In the globalized world, it is a requirement for any organization to build and run their IT systems to cater multiple functionalities and geographies. IT landscape consists of different systems like marketing, analytics, financial, sales, design etc in multiple geographies.

Master data is not an exception to this: SAP MDM maintains the single version of truth (golden record) and syndicates (send back) the respective system specific data only to the connected systems.

Many Organizations maintain their master data in the global head quarter and sends it to all the countries systems. In such scenario, the master data belonging to country US will be send to US systems only and EU and APJ data will send to their respective systems. Not all the countries should receive all the master data if not required.

Similarly, the Organizations have multiple manufacturing units, and these manufacturing units cater to only their respective products only. Some plants manufacture special type of products and some plants manufacture more than one type of products. Thus, the global master data of products should be sent to their respective plants only.

Similarly, the different systems or organization require master data according to their requirements. Marketing system requires master data of finished products only. Testing and Quality requires master data of Parts, unfinished products etc. Analytics and planning require all the products master data.

The business requirements are multiple as per business processes. To cater these requirements, it is not recommended to build separate MDM hub for all the different requirements. MDM solution should be able to cater to all of such business requirements while syndicating the data to respective systems.

Tip – This comes handy for the requirements of testing, reconciliation or special subset of records.

Note: InQuera repository is used for this example.

Pre-requisite

1. First we have to create a simple syndicator map and map the fields. Please refer to below link for step by step guide to create the syndicator map [Syndicator Maps](#) .

These are the fields mapped for this article.

Item Mapping				
Map Properties		Destination Items		Me
Source items:				
Name	Type	Mapped	Destination	
[-] Products	Main			
[-] Manufacturer	Lookup [Hierarchy]		Manufacturer	
[-] Part Number [DF]	Text [75]		Part No	
[-] Name	Lookup [Flat]		Name	
[-] Category	Lookup [Taxonomy]		Category	
[-] Category [All Attributes]	Attributes			
[-] Category [Individual Attri	Attributes			
[-] UPC	Text [15]		UPC	
[-] Alternate Part Number	Text [50]			
[-] Images	Lookup [Image] (...			
[-] Image Details	Lookup [Qualified ...			
[-] Spec Sheets	Lookup [PDF] (mul...			
[-] Description	Lookup [Text Bloc...			
[-] Features	Lookup [Text Bloc...			
[-] Includes	Lookup [Text Bloc...			
[-] Note	Lookup [Text Bloc...			
[-] Tests and Approvals	Lookup [Text Bloc...			
[-] Warranty	Lookup [Text Bloc...			
[-] Technical Information	Lookup [Text HTM...			
[-] Certification	Lookup [Image] (...			
[-] Made In	Lookup [Image]			
[-] Visual Appearance	Lookup [Image] (...			
[-] UNSPSC	Lookup [Hierarch...			
[-] Creation Date	Create Stamp			
[-] Update Date	Time Stamp			
[-] Updated By	User Stamp			
[-] Item Status	Boolean		Item Status	
[-] Pricing	Lookup [Qualified ...			

Solution

There are various functionalities available for selective and restrictive syndication in MDM. Ports functionality helps in achieving selective syndication. The other is free-form search functionality of syndicator. Both have their usage, advantages and limitations. Clear understanding the business process requirement will help in selecting the required functionality.

Category

1. After creating the syndicator map, open the **Free-Form Search** tab. In the **Category** field, enter the value **Additives**.

SAP MDM Syndicator - SAP Inquera [localhost] - Additives

File View Search Item Properties Syndication Configuration Source Items Help

Products

Search Parameters

Manufacturer
Name
Category
Image Details
UNSPSC
Item Status
Pricing
Masks
Record Type
Free-Form Search
Keyword
Expression
Alternate Part Number
Category

Manufacturer	Part Number	Name	Category	UPC	Item Status
Loctite Corporation	21349	7075 Accelerator	Additives	12	Active
Loctite Corporation	22671	7075 Accelerator	Additives		Active
Rust-Oleum Corporation	5301	Rust-O-PoxyT Sys...	Additives		Active
Rust-Oleum Corporation	5303	Rust-O-PoxyT Sys...	Additives	11	Active

Item Mapping Map Properties Destination Items Custom Items Merge Items S

Source Items:

2. The result will be that only the records which belong to category **Additives** are selected.
3. We will get this status on lower right hand corner of MDM Syndicator Screen confirming that only 4 records belong to category **Additives**.

4 of 6360 records found

4. Save the syndicator map again. This is important to save the map for every change.
5. After syndication, this will be result. Only 4 records are sent out which belongs to **Additives** category. If we add/import more records later, records belonging to Additives category will syndicated.

Selective Syndication + Additives - Notepad

File Edit Format View Help

Manufacturer	Part No	Name	Category	UPC	Item Status
Loctite Corporation	21349	7075 Accelerator	Additives	12	Active
Loctite Corporation	22671	7075 Accelerator	Additives		Active
Rust-Oleum Corporation	5301	Rust-O-PoxyT System 5300	Additives		Active
Rust-Oleum Corporation	5303	Rust-O-PoxyT System 5300	Additives	11	Active

Item Status

1. After creating the syndicator map, open the **Free-Form Search** tab. In the **Item Status** field, select the value **Obsolete**.
2. The result will be that only the records selected which have **Obsolete** status.

SAP MDM Syndicator - SAP Inquera [localhost] - Obsolete

File View Search Item Properties Syndication Configuration Source Items Help

Products

Search Parameters

Manufacturer

Name

Category

Image Details

UNSPSC

Item Status

Pricing

Masks

Record Type

Free-Form Search

	Operator	Value
Keyword		
Expression	is TRUE	
Alternate Part Number	contains	
Category	contains	
Certification	is NULL	
Creation Date	=	
Description	(progressive)	
Features	(progressive)	
Image Details	contains	
Images	is NULL	
Includes	(progressive)	
Item Status	equals	Obsolete

Records

	Manufacturer	Part Number	Name	Category	UPC	Item Status
▶	The Armstrong Tool Comp.	27-945	Ignition Wrench Set	Multi-Purpo...		Obsolete
	The Armstrong Tool Comp.	15-070	Basic Tool Set	Multi-Purpo...		Obsolete
	The Armstrong Tool Comp.	43-054	Metric Mechanic's ...	Multi-Purpo...		Obsolete
	The Armstrong Tool Comp.	43-053	Metric Mechanic's ...	Multi-Purpo...		Obsolete
	Proto®	3200C	Ignition Set	Assembly ...		Obsolete
	Estwing Manufacturing C...	#6	Clear Safety Gogg...	Hand Ham...	0341...	Obsolete
	Estwing Manufacturing C...	1016C	Wooden Handle Cl...	Hand Ham...	0341...	Obsolete
	Wiha Quality Tools	8888002	Carrier Series RKT...	Tool Carrie...		Obsolete
	Wiha Quality Tools	8888001	Carrier Series RKT...	Tool Carrie...		Obsolete
	Wiha Quality Tools	8888000	Carrier Series RKT...	Tool Carrie...		Obsolete

3. We will get this status on lower right hand corner of MDM Syndicator Screen confirming that only 10 records have **Obsolete** status.

10 of 6360 records found

4. Save the syndicator map again. This is important to save the map for every change.
5. After syndication, this will be result. Only 10 records are sent out which have **Obsolete** status. If some more records get **Obsolete** status later, those records will also be syndicated.

Selective Syndication + Obsolete - Notepad

File Edit Format View Help

Manufacturer	Part No	Name	Category	UPC	Item Status
The Armstrong Tool Co	27-945	Ignition wrench set	Multi-Purpose Assortment Sets	100	obsolete
The Armstrong Tool Co	15-070	Basic Tool Set	Multi-Purpose Assortment Sets		obsolete
The Armstrong Tool Co	43-054	Metric Mechanic's Starter	Multi-Purpose Assortment Sets		obsolete
The Armstrong Tool Co	43-053	Metric Mechanic's Starter	Multi-Purpose Assortment Sets		obsolete
Proto®	3200C	Ignition Set	Assembly & Fastening Tool Sets		obsolete
Estwing Manufacturing	#6	Clear Safety Goggles	Hand Hammer Parts & Accessorie	03413	obsolete
Estwing Manufacturing	1016C	Wooden Handle Claw Hammer	Hand Hammer (units)	03413	obsolete
wiha quality Tools	8888002	Carrier Series RKT-202	Tool Carrier (units)		obsolete
wiha quality Tools	8888001	Carrier Series RKT-201	Tool Carrier (units)		obsolete
wiha quality Tools	8888000	Carrier Series RKT-200	Tool Carrier (units)		obsolete

6. Now we changed the Item status as **Obsolete** of 2 records.
7. After syndication, this will be result. Now 12 records are sent out which have **Obsolete** status.

Manufacturer	Part No	Name	Category	UPC	Item Status
The Armstrong Tool Co	27-945	Ignition wrench Set	Multi-Purpose Assortment Sets	100	Obsolete
The Armstrong Tool Co	15-070	Basic Tool Set	Multi-Purpose Assortment Sets		Obsolete
The Armstrong Tool Co	43-054	Metric Mechanic's Starter	Multi-Purpose Assortment Sets		obsolete
The Armstrong Tool Co	43-053	Metric Mechanic's Starter	Multi-Purpose Assortment Sets		obsolete
Proto®	3200C	Ignition Set	Assembly & Fastening Tool Sets		obsolete
Estwing Manufacturing	#6	Clear Safety Goggles	Hand Hammer Parts & Accessorie	03413	obsolete
Estwing Manufacturing	1016C	Wooden Handle Claw Hammer	Hand Hammer (units)	03413	obsolete
Wiha Quality Tools	8888002	Carrier Series RKT-202	Tool Carrier (units)		obsolete
Wiha Quality Tools	8888001	Carrier Series RKT-201	Tool Carrier (units)		obsolete
Wiha Quality Tools	8888000	Carrier Series RKT-200	Tool Carrier (units)		obsolete
Rust-Oleum Corporatio	5301	Rust-O-PoxyT System 5300	Additives		obsolete
Loctite Corporation	22671	7075 Accelerator	Additives		obsolete

Category & Item Status

We can combine the above 2 examples. i.e. we can select only those records which belong to combination of both the **Additives** category and **Obsolete** status. This we can achieve by selecting values for combination of both the fields in **Free-Form Search**. Result is only 2 records for this combination.

Manufacturer	Part Number	Name	Category	UPC	Item Status
Rust-Oleum Corporation	5301	Rust-O-PoxyT System ...	Additives		Obsolete
Loctite Corporation	22671	7075 Accelerator	Additives		Obsolete

Manufacturer	Part No	Name	Category	UPC	Item Status
Rust-Oleum Corporation	5301	Rust-O-PoxyT System 5300	Additives		Obsolete
Loctite Corporation	22671	7075 Accelerator	Additives		obsolete

Expression

However there are requirement that we would like to select more than one category in the map. For this we have to use **Expression** in the **Free-Form Search** tab.

This functionality makes the search a very powerful tool to search the records on multiple parameters.

1. After creating the syndicator map, open the **Free-Form Search** tab. In the **Item Status** field, In the **Expression**; enter the formula for category as **Additives** or **Earmuffs**.
2. The result will be that only the records selected which belong to either of the **Additives** or **Earmuff** category.

Free-Form Search		
Keyword	Operator	Value
Expression	is TRUE	Category.Category = Additives OR Category.Category = Earmuffs
Alternate Part Number	contains	

3. We will get this status on lower right hand corner of MDM Syndicator Screen confirming that only 6 records for both the categories.

6 of 6364 records found

4. Save the syndicator map again. This is important to save the map for every change.
5. After syndication, this will be result. Only 10 records are sent out which belong to either of the **Additives** or **Earmuff** category. If some more records get **Obsolete** status later, those records will also be syndicated.

Manufacturer	Part No	Name	Category	UPC	Item Status
Loctite Corporation	21349	7075 Accelerator	Additives	12	Active
Rust-Oleum Corporation	5301	Rust-O-PoxyT System 5300	Additives		Obsolete
Loctite Corporation	22671	7075 Accelerator	Additives		Obsolete
Rust-Oleum Corporation	5303	Rust-O-PoxyT System 5300	Additives	11	Active
Howard Leight Industries	OM-77L	optimuff® Earmuff	Earmuffs		Active
Howard Leight Industries	OM-77	optimuff® Earmuff	Earmuffs		Active

Exclusions

Ports feature is not part of this part.

Ports Functionality will be covered in part 2.

Conclusion

As we come to the end of this article, that I hope you found interesting, I would like to collect your feedback, queries and suggestions. Feel free to send me an [email](#).

Related Content

[Wiki – Ankur Goel Profile \(for all other previous docs\)](#)

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<https://www.sdn.sap.com/irj/scn/thread?threadID=1142294>

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