

# Syndicate Relationships in MDM 5.5



## Applies to:

SAP MDM 5.5

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

## Summary

This document contains the steps required to Syndicate the Sibling relationship information out from MDM system.

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## Author Bio



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## Business Requirement

Your master data is placed in SAP MDM either through import from different source systems or created centrally using MDM Data Manager. You have already maintained the relationship between the records, now your business demands to syndicate the data to different target systems along with relationship information. However it is directly not possible to syndicate relationship information along with master data maintained in MDM.

## Prerequisite

You have already created the Sibling relationship in your repository to maintain the relationship between the records.

## Detailed Steps to syndicate relationship information

### Step 1: Create a field of type Text or Text Large

Unload the repository and create the new field of type text or text Large to store relationship information. Below figure shows the Text Large field with name Relationship

The screenshot displays the SAP MDM console interface. On the left is the 'Console Hierarchy' tree, showing the path: SAP MDM Servers > 127.0.0.1 > Material > Products. The main area is divided into two panes. The top pane, titled 'Fields', shows a list of fields with columns for Position, Name, Type, Keyword, DF, and UF. The field 'Relationship' at position [54] is highlighted. The bottom pane, titled 'Field Detail', shows the configuration for the 'Relationship' field: Name: Relationship | | | | | | | | | |, Code: Relationship, Description: (empty), Type: Text Large, Required: No, Writable Once: No, Matrix: Normal, Multi-Lingual: No, Keyword: None, Display Field: No, Unique Field: No, Sort Index: None, Calculated: No, and Calculation: (empty).

Pos.	Name	Type	Keyword	DF	UF
[37]	EAN/UPC	Text	None		
[2]	Material Number	Text	None	[1]	
[39]	Maintenance Status	Text	None		
[3]	Description	Text	None		
[6]	External Material Group	Text	None		
[10]	Production Memo	Text	None		
[54]	Relationship	Text Large	None		
[46]	Update Date	Time Stamp	None		

Field Detail	
Name	Relationship
Code	Relationship
Description	
Type	Text Large
Required	No
Writable Once	No
Matrix	Normal
Multi-Lingual	No
Keyword	None
Display Field	No
Unique Field	No
Sort Index	None
Calculated	No
Calculation	

**Note:** In this Article, standard shipped Material repository has been used which contains Material Number as the display field.

### Step 2: Create the new Assignment

In order to populate the newly created field (which should store relationship information), we need to create a new assignment with the expression <Relationship Name>.Material Number as shown below. Note that the relationship name used in this example is Substitute Item(s)

The screenshot shows the SAP MDM interface. At the top, there is a table with columns: Material Number, Description, Material Type, and Material. The table contains the following data:

Material Number	Description	Material Type	Material
100	14 Inch Floppy	DEIN	Floppy Drives
101	High Storage Media	FERT	CD Drive
200	1.8 MHZ Core 2 Duo	FERT	CPU
201	2.0 MHZ Core 2 Duo	FERT	CPU
202	2.0 MHZ Dual Core	HALB	CPU

Below the table, there are tabs for Record Detail, Language Detail, Validations, **Assignments**, Workflows, and Search Selections. The 'Assignments' tab is active, showing a configuration for 'Copy\_Relationship'.

The configuration is split into two sections: Assignments and Properties.

**Assignments:** Copy\_Relationship

**Properties:**

Name	Value
Name	Copy_Relationship
Description	
Table	Products
Branch Value	
Assignment	[Assignment Expression]
Table Field	Relationship

The 'Table Field' value 'Relationship' is highlighted with a red box. Below it, the expression 'Substitute Item(s).Material Number' is shown in a red box.

### Step 3: Create the syndication map

Open the MDM Syndicator; create the destination fields to be syndicated to the remote system and perform the mapping as shown in below fig. Save the syndication map with same meaningful name.

The screenshot shows the SAP MDM Item Mapping interface. It has tabs for Item Mapping, Map Properties, Destination Items, Custom Items, Merge Items, Search Selections, and Destination Preview. The 'Item Mapping' tab is active.

The interface is divided into two main sections: Source Items and Destination Items.

**Source Items:**

Mapped	Name	Type	Destination
	Id	Auto ID	
✓	Material Number [DF]	Text [40]	Material Number
✓	Description	Text [40] (Multilin...	Description
✓	Material Type	Lookup [Flat]	Material Type
✓	Material Group	Lookup [Flat]	Material Group
	External Material Group	Text [18]	
	UNSPSC Category	Lookup [Hierarchy]	

**Destination Items:**

Order	Mapped	Include	Name	Type	Source
[1]	✓	✓	Material Number	Text	Material Number [DF]
[2]	✓	✓	Material Type	Text	Material Type
[3]	✓	✓	Material Group	Text	Material Group
[4]	✓	✓	Description	Text	Description
[5]	✓	✓	Order Unit	Text	Order Unit
[6]	✓	✓	Substitute Item(s)	Text	Relationship

### Step 4: Create the new outbound port

Unload the repository, navigate to Ports table and create the new port of type Outbound with Processing type = Manual, assign the remote system (to which records are to be send) and the pass the map name saved in above step.

**Console Hierarchy**

- Units
- Valuation Areas
- Valuation Categories
- Valuation Classes
- Valuation Types
- Variable Order Unit
- Yes/No Indicator
- UNSPSC Categories
- Product Class
- Location Data
- Material Valuation
- Sales Data
- Unit of Measure EA
- Images
- Image Variants
- Sounds
- Videos
- Binary Objects
- Text Blocks
- Copy Blocks
- Text HTMLs
- PDFs
- Masks
- Relationships
- Workflows
- Named Searches
- Admin
  - Roles
  - Users
  - Connections
  - Change Tracking
  - Remote System
  - Ports**

Sequence	Name	Code	Type	Format	XML Schema	Remote System	Map
	Out to R3	Out_to_R3	Outbound			MDC R/3	out

**Port Detail**

Name	Out to R3
Code	Out_to_R3
Type	Outbound
Remote System	MDC R/3
Map	out
Format	
Columns	
Delimiter	
XML Schema	
Processing Type	Manual

### Step 5: Add the new workflow in Workflows table

Create the new workflow in the workflows table using MDM Data Manager with the properties and flow shown in below figures.

**Search Parameters**

Keyword	Operator	Value
(progressive)		
Active	equals	
Autolaunch	contains	
Code	contains	
Created	=	
Created By	contains	
Description	contains	
Max Records	=	
Max Time	=	
Modified	ABS =	
Modified By	contains	
Name	contains	
Owner	contains	
Trigger Actions	contains	

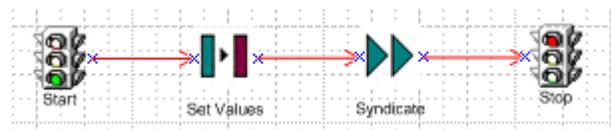
**Records**

Name	Code	Description	Table
Syndicate Materials	syndicate_materials		Products

**Record Detail**

Name	Syndicate Materials
Code	syndicate_materials
Description	
Table	Products
Workflow	(Microsoft Visio Document)
Owner	Admin
Active	Yes
Trigger Actions	Manual
Autolaunch	Immediate
Max Records	100
Max Time	1 d
Created By	Admin
Created	08/12/2009 12:58:41
Modified By	Admin
Modified	08/12/2009 13:17:07

Assign the assignment Copy\_Relationship in the step Set Values and the Port created earlier in Syndicate step.



### Step 6: Move the records to be syndicated into the workflow

Add the records to be syndicated to the workflow created in above step. Prior to this make sure that Syndication server is in running state.

Id	Material Number	Description	Material Type	Material Group
197	100	14 Inch Floppy	DEIN	Floppy Drives
198	101	High Storage Media	FERT	CD Drive
199	200	1.8 MHZ Core 2 Duo	FERT	CPU
200	201	2.0 MHZ Core 2 Duo	FERT	CPU
201	202	2.0 MHZ Dual Core	HALB	CPU

**Note:** In this example, workflow trigger action is set to Manual; it can be set to Record Add, Record Update and Record Import depending upon business requirement.

### Step 7: Check the output file

Below figure shows that the record with Material Number 200 is related to records with Material Number 201 and 202, same can be seen in the output file.

Id	Material Number	Description	Material Type	Material Group
197	100	14 Inch Floppy	DEIN	Floppy Drives
198	101	High Storage Media	FERT	CD Drive
199	200	1.8 MHZ Core 2 Duo	FERT	CPU
200	201	2.0 MHZ Core 2 Duo	FERT	CPU
201	202	2.0 MHZ Dual Core	HALB	CPU

Id	Material Number	Description	Material Type
199	200	1.8 MHZ Core 2 Duo	FERT
200	201	2.0 MHZ Core 2 Duo	FERT
201	202	2.0 MHZ Dual Core	HALB

Check the output file and note the last column which contains number of records related along with the Material Number(s).

E.g. 1:100; -> Number of records related = 1  
 Material Number(s) = 101

```

Material Number Material Type Material Group Description Order Unit Substitute Item(s)
100 DEIN Floppy Drives 14 Inch Floppy EA 1:101;
200 FERT CPU 1.8 MHZ Core 2 Duo EA 2:201;202;
    
```

## Related Content

[http://help.sap.com/saphelp\\_mdmgds55/helpdata/EN/43/D7AED5058201B4E1000000A11466F/frameset.htm](http://help.sap.com/saphelp_mdmgds55/helpdata/EN/43/D7AED5058201B4E1000000A11466F/frameset.htm)

<http://www.sdn.sap.com/irj/sdn/nw-mdm?rid=/webcontent/uuid/c039d0df-0901-0010-16b4-8fdc4bf639e3>

<https://forums.sdn.sap.com/forum.jspa?forumID=55&start=0>

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

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