



Manual Transfer Schemes COS MDM

Version 4.2

File	COS_MDM_Manual_Transfer_Schemes
Revision & date	26-11-2024

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1 Introduction

Transfer Schemes can be used to *transfer* (copy) existing records from a source to a destination. More commonly transfer schemes are known as ETL-schemes. *ETL* is short for *Extract, Transform, Load*; three database functions that are combined into one tool to pull data out of one database and place it into another database.

- *Extract* is the process of reading data from a database. In this stage, the data is collected, often from multiple and different types of sources.
- *Transform* is the process of converting the extracted data from its previous form into the form it needs to be in so that it can be placed into another database. Transformation occurs by using rules or lookup tables or by combining the data with other data.
- Load is the process of writing the data into the target database.

The purpose of Transfer Schemes within Compano is to create and update a selection of Sales Items or Products automatically from a *source* of existing records to a *destination* such as a sales assortment or a central data environment.

Examples

- Items are copied from an import buffer to a central purchase assortment.
- Products are copied from one environment to another, for instance from a *Centrally Maintained Assortment* to *a Locally Maintained Assortment*.
- Recipes to a recipe system (not implemented, yet)

Within a Transfer Scheme *filters* and *conversion rules* can be configured. These filters and rules define which records and fields are copied. During copying, values in the source data can be transformed resulting in data that is amended, expanded or otherwise different than the source **data.** The transformations are applied to the 'destination' data, the original source data is kept intact.

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1.1 MDM-concept Compano

Within the MDM-concept of Compano, four types of transfer schemes can be distinguished:

- Buffer (Import) to Central (cross-database)
- Purchase to Sales (limited to one database)
- CIP to COA (cross-database)
- Artikelbeheer.nl (Compano data pool) to Central



Figure 1. Layered environment

These different types of schemes each represent a specific scenario. Which type of scheme should be used depends mainly on the source and destination for the transfers.

For instance, when using a single environment, the Purchase to Sales scheme can be used to transfer supplier data to meet your specific needs. The other three options imply the use of a *layered environment*, as depicted in *Figure 1. Layered environment*.

1.2 Concepts

Each transfer is configured in a *Transfer Scheme*. Multiple schemes can be configured and applied separately, for instance to different suppliers or assortments.

A scheme contains:

- Filters: Extract source main selection and extract source sub selection
- Fields: Extract fields
- Transformation rules: Data conversions



Figure 2. Structure of a Transfer Scheme

1.2.1 Filters

Filters, or selections, are used to determine the source data to which transformations will be applied.

There are two types of filters:

- Extract source (sub)selections: Filters to *select* records to be copied
- Extract fields: Filters to *define* which fields should undergo a *value transformation*

1.2.2 Rule groups

A *Rule Group* is a *set of filters.* Within a scheme a Rule Group can be created to prevent having to define a filter for each transformation rule. Rule groups can be considered a *subselection* of the main selection and will be addressed as such in the remainder of this document.

1.2.3 Transfer

A data transfer consists of four steps:

- 1. Determine which records are selected to be copied
- 2. *Determine* which *fields* are selected to be copied
- 3. Determine which fields should undergo a value transformation
- 4. Execute the value transformation(s)

1.3 Entities

Transfer schemes have been implemented for the following Entities:

- Product: only <u>one</u> (1) Transfer Scheme can be set for Products, which will be applied to all products of all manufacturers.
- Item: per Assortment, <u>one</u> (1) scheme can be set, which will be applied to all the items in the assortment.

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These transfer schemes can be created and configured *for each environment* within your MDM-application, be it Buffer, Central or Local.

Transfer schemes can be set to one of four *Types*¹:

- Buffer to COA
- Purchase to Sales
- CIP to COA
- Artikelbeheer.nl (AB) to COA



1.4 Components

A Transfer scheme consists of four parts:

- Extract Main Selections
- Extract Subselections
- Extract Fields
- Transformation Rules



1.4.1 Extract main selection

The function *Extract Main Selection* deals with a first selection of Items, based on common features, such as Item Group, Condition Group, Product Class, etc.).

Depending on the type of scheme, several different Filter options will be available for further filtering, for example:

Main selection		
Transfer scheme	Copy product to central environment	
ssortment code	NEFIT	
lain selection type	Condition Group	
lain selection code	C002	
nclude in selection	● Yes ○ No	
	Save	Cancel

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<u>Note</u>: *Multiple Main Selections* can be defined in a transfer scheme. However, ;please be mindful that extraction rules defined in the main selections can affect each other. Positive filters (Include in selection = Yes) are applied first to extract a set of records, after which Negative filters (Include in selection = No) can exclude certain records form the set.

1.4.1.1 Inclusive - Exclusive

Main Extraction filters can be set to either *Include* or *Exclude* the filtered records:

Selection (A,B,C,D) with filter 'B', *Include in selection = Yes*: the result will be 'B' Selection (A,B,C,D) with filter 'B', *Include in selection = No*: the result will be 'ACD'

1.4.2 Extract subselection

The function *Extract Subselection* is an additional option to extract a subselection of records and group Transformation Rules for this subset. For instance, when using a subselection, all transformation rules for brand, series and type can be grouped, or all transformation rules that deal with dimensions can be grouped. Subselections are configured through a Filter.

To select, for example, all items with a datafield value above a certain threshold, a subselection can be created as follows:

Subselection	Filter			
ransfer scheme		Copy product to central environment		•
escription		All product with at least 1 attachement		
			Save	Cancel

Add - New extract subsel	ection to	transfer scheme Cop	y product to central environment		
Subselection		Filter			
Product					^
Code		start 🗸			- 8
GTIN		start 🗸			- 8
Product description		start 🗸			
Brand		start 🗸			
Series	(1)	start 🗸			
Туре	(1)	start 🗸			
Number of accessories		= value 🗸			
Archive time (product)		equal 🗸	() () ()		
Amount of attachments		≥ value 🗸 🗸	1		
Batteries included			⊖ Yes ⊖ No		
BIM status			None	🗌 🖴 Under construction	
			🗌 📟 Ready	🗆 🖬 Test	
Classification Quality			Fill ETIM Product Class	All Required fields filled	_
			Fill ETIM features	Ready, this product is clas Save Cancel	•

1.4.3 Extract fields

The function *Extract Fields* is used to select data fields and determine how they are manipulated. Manipulation options are:

- Overwrite target value: Write the new value into the target data field
- Keep non-empty target value: Do not write an empty value into the target data field
- Keep any target value: If the target data field already contains a value, do not overwrite it
- Only overwrite if new record: Only overwrite the data field if the target record was newly created; i.e. do not update data fields of existing target records.

For example:

Extract the field Commercial description and overwrite its value:

Extract field			
Transfer scheme	CIP-to-COA Selected field		
Field	Code		- 💥
Transfer type	Overwrite target value	~	
	Overwrite target value		
	Keep non-empty target value Keep any target value Only overwrite if new record	Туре	of transfer
_		Save	Cancel

1.4.4 Transformation rule

The function *Transformation rules* is used to define the transformation to the value of a selected Field. Transformation options include:

- Generate a number: Generate of a (new) number according to a number template.
- Set a fixed (new) value: Enter a (new) value.
- Use an Expression: Values can be calculated or manipulated using (mathematical) operators, functions and/or other data fields.

Transformation rule	Expression	
Extract subselection	Purchase to Sales scheme - Items Is an item for sale and in stock	
Extract field	Item description #Always	-
Rule type	Use expression	
Description	Default description	
Filter settings	is sales item is Yes and stock item is Yes	
	Save	

🖻 Wijzigen					
Transformation rule Expression					
🔁 🐡 Ω • 👗 🐁 🐁 🕙 • ભ • 🗐 🥵 🛍 🚷					
B I ∐ abe ■ 書 書 ■ 麗 x* ×	<u>.</u> 😣 😣				
Arial, Helveti • 13px • A • 🗞 • Apply CSS Cl •					
📓 🚰 📓 🥥 💿 💌 Insert field 📲 💷 🖷 🕮 🕮 👘 🏥 📰 📳 🔡 📰 🛣					
CONCAT(TEXT([ltemRecord.Code/]),"S"))	CONCAT(TEXT([<u>itemRecord.Code</u> /])."S"))				
	Save	Cancel			

1.5 Setting a Transfer scheme

Transfer schemes can be set for Products or Assortments (Items). <u>Note</u>: The assortment for which a scheme is set, is the *target* assortment; any extractions and transformation are applied to the items of the *source* assortment which are then copied (including any transformations) to the target assortment.

1.5.1 Transfer scheme on Products

At the moment, only <u>one</u> (1) Transfer scheme can be set for Products, which will be applied to all targeted products of all targeted manufacturers.

<u>Note</u>: If you want the product scheme to be applied, there must be a reference (via the Product field) to products in the item scheme.

Minimum afname in B	E MinOrderQuantity	Doelwaarde overschrijven	Artikel algemeen	PRD.
Omschrijving	Description	Doelwaarde overschrijven	Artikel algemeen	PRD
Omschrijving kort	ShortDescription	Doelwaarde overschrijven	Artikel algemeen	PRD.
Product	Product	Doelwaarde overschrijven	Artikel algemeen	PRD.
Stapgrootte afname	StepQuantity	Doelwaarde overschrijven	Artikel algemeen	PRD
Tekening	Drawing	Doelwaarde overschrijven	Artikel algemeen	DDD

1.5.2 Transfer scheme on Assortment (Items)

Per Assortment, <u>one</u> (1) scheme can be set, which will be applied to all the items in the assortment. This allows for setting a different scheme for each assortment.

1.6 Example configuration

A purchasing association is working with the following setup of a Master Data Management system:



- CIP: Central import portal
- COA: Centrally maintained assortment
- Artikelbeheer.nl: Data pool

The CIP is used for import of 'raw' data from suppliers. Both the CIP and Artikelbeheer.nl data pool

provide data to the COA. Data is then transferred from the CIP to the COA using two Transfer schemes, one for Item data and one for Product data. These schemes will be discussed in the paragraph below.



Within the COA a further Transfer scheme is active for transfer of Items from the Purchase assortment to the Sales assortment. This scheme will *not* be discussed in this example section.

The CIP-to-COA scheme for Product data, consists of one main selection, three field extractions and two transformation rules.

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1.6.1 CIP-COA (Product) scheme

The transfer scheme for product data:

Edit - CIP-to-COA (products)					
Transfer scheme					
Description	CIP-to-COA (products)				
Entity	Product	•			
Туре	CIP to COA	v			
	Save	Cancel			

- Description: Description of the transfer scheme
- Entity: Entity on which the transfer scheme is active
- Type Type of transfer scheme

1.6.2 Extract Main Selection

Within the CIP-to-COA scheme, one *main selection* is active:

Add - New extract main selection	on to transfer scheme AB to Central scheme - Products	
Main selection		
Transfer scheme	AB to Central scheme - Products	-
Assortment code	AEV	
Main selection type	Product class 🗸 🗸	
Main selection code	EC000005	
Assigned class	ETIM Dynamic EC000005 Cable end sleeve	- X
Include in selection	O Yes 🔍 No	
	Save	Cancel

• Transfer scheme: Name of parent transfer scheme

- Assortment code: Code of the assortment from which records are to be selected
- Main selection type: Type of records to be selected. Options are:
 - o Item number
 - o Item group
 - o Condition group
 - o Product class
 - o Manufacturer
- Main selection code: Code of the selection type, can be either an item number, item group code, condition group code, product class EC-code, or manufacturer code.
- Assigned class: Selects all records with the selected ETIM product class. <u>Note</u>: Only available for the main selection type *Product Class*.
- Include in selection: Set to *Yes/No* to either *include* or *exclude* the specified records.

1.6.3 Extract Fields

Within the CIP-to-COA scheme, three *field extractions* are active:

Extract fields Menu	/iew Edit Print	» Transfer scheme :CIP-to-COA (p	rod
> •			•
Navigation 🛞	Field	Field Name	#TransferType
Transformation rules (1)	Commercial descr	ription CommercialDescription	Overwrite target value
Transfer scheme:CIP-t	Available	ShortDescription Status	Overwrite target value Overwrite target value

The third rule extracts the field *Available* and overwrites its value. This transformation action is described in the next paragraph.

Extract field		_
Transfer scheme	CIP-to-COA (products)	•
Field	Available	- 🗙
Fransfer type	Overwrite target value	~

1.6.4 Transformation Rules

Within the CIP-to-COA scheme, two transformation rules are active:

Transformation rules	enu View Edit Print »Trar	nsfer scheme:CIP-to-COA (p	rod	
▶.	- 🔍 📃 🚺 🛛 🕎	. 0		
Filter	Search All Details Manage Scree	en layouts Help		
Navigation 😣	 Field Name 	Transfer type	Line Type	Description
	CommercialDescription	Overwrite target value	Use expression	Generate a commercial description
Iransfer scheme:CIP-t	Status	Overwrite target value	Set value	Set availability

The second transformation rule sets the availability of a product to *Run in:*

Edit - Iransformation rule	
Transformation rule Filte	r
Extract subselection	- ×+
Extract field	Available #Always
Line Type	Set value 🖌
Description	Set availability
Value	Run in
	Save Cancel

1.7 Applying a Transfer scheme

Transfer schemes for *Items* are applied at the level of Assortments. A transfer should always be started manually, using the *Transfer* function:

Functions	۲
Transfer	
Quality Control	
Update Update	
From archive	

For now, the transfer scheme for *Products* need not be applied manually. If present, the scheme will automatically transfer requested product information if this is called for by another transfer scheme. <u>Note</u>: The product scheme *must* be set at *My company settings*.

1.8 Communicating Transfer schemes

While any user with full access to the Compano system is allowed to create Transfer schemes, most often a Compano consultant will implement these schemes.

To facilitate implementation, communicating desired schemes should be according to the following format:

As [user-type], I need [action] to be performed with this [result].

Example:

As data manager, I need items with a price in pounds to have a VAT of 20% added.

This kind of format allows the Compano consultant to implement the correct Transfer scheme.

Guidelines for notation of ETL rules:

• Transfer schemes are supported for Products or Items. This basic, first selection will determine which data fields are available for further selection and processing.

- Fields can be processed in four distinct ways:
 - o Overwrite target value \rightarrow Write the new value into the target data field
 - o Keep non-empty target value → Do not write an empty value into the target data field
 - Keep any target value → If the target data field already contains a value, do not overwrite it
 - Only add if new record \rightarrow Do *not update* existing records, but add new ones.
 - o nieuwe records aanmaken geen records updaten, maar toevoegen

1.8.1 Example 1

As data manager, I need the Packaging Form for an Item to change from NE to BX as this is our standard packaging form.

Resulting Transfer scheme:

- Entity: Item
- Extract main selection: none
- Extract subselection: none
- Extract fields: *Packaging Form*, overwrite target value
- Transformation rule: "If Packaging Form is NE, then change Packing Form to BX" (Expression)

1.8.2 Example 2

As purchasing manager, for Items of Manufacturer X, I need to increase the Gross Price by 10% if the original gross price is less than €5,-.

Resulting Transfer scheme:

- Entity: Item
- Extract main selection: Items of *Manufacturer* X
- Extract subselection: filter on *Price per PU and PQ* < 5.00
- Extract fields: Gross Price, overwrite target value
- Transformation rule: "Add 10% to Gross Price" (Expression)

1.8.3 Example 3

As data manager, I need to add a default text to Products in ETIM class EC000815. The default text should be a description of the class in question.

Resulting Transfer scheme:

- Entity: Product
- Extract main selection: Products in ETIM class *EC000815*
- Extract subselection: none
- Extract fields: *Technical Description*, overwrite target value
- Transformation rule: "Add the following default text: Auto-antenne".

1.8.4 Example 4

As data manager, I need to make sure that all Products have valid GTIN code.

Resulting Transfer scheme:

- Entity: Product
- Extract main selection: none
- Extract subselection: none
- Extract fields: GTIN, keep non-empty target value
- Transform rule: none

1.8.5 Example 5

As marketeer, I need to supplement each Product Description with a link to our website.

Resulting Transfer scheme:

- Entity: Productf
- Extract main selection: none
- Extract subselection: none
- Extract fields: Description, overwrite target value
- Transform rule: "Add a link at the end of the description to the website: *http://www.compano.com.*"

2 Implementing a Transfer Scheme

2.1 Creating schemes

Detailed *Transfer Schemes*, including Filters, Rules and Transformations can be created through the Configuration screen of your Compano application.

2.1.1 Add new scheme

To add a new schema

1. Through the Menu go to *System > Configuration* and click on *Transfer Schemes*.

Configuration Menu V	riew Edit Functions Print	
».	Search All Details Manage Screen Javourts Heln	
Edit	Image overview Description	Used by
Line edit on	Accessory items	Item
Functions	Accessory, products	Product
Manipulate	Alternatives	
Print	Attachment Type	Attachment
Print	Periodic tasks	
Printing options	Product.oroups	Attachment, Product, Product group, Publication
Managing detail lay-outs	Product list	# ProductListItem
Managing list lay-outs	Iransfer schemes	Assortments
		Accessories item, Product accessories, Bonus specification, Bonus specification, Contract Line, Item, Product, Eguipment Type, Calculationine, User defined field, Stock-Requirements List line, Invoice Line, Surcharen, Work-Tyne, Standard, Benne Control, Lunatation Line, Material Requirements Contro

2. In the next screen, under Edit, click on +Add.

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Transfer schemes Menu	View Edit Print
▶.	
Filter	Search All Details Manage Screen layouts Help
Navigation	Description
Extract main selections (0)	AB to Central scheme - Products
	Purchase to Sales scheme - Items
Extract subselections (0)	CIP-to-COA
Extract fields (0)	Copy product to central environment
Transformation rules (0)	
Configuration	
Edit	
Add	<u>_</u>
Modify	
Delete record (s)	

3. In the pop-up window:

Transfer scheme		
Description	Copy product to central environment	
Entity	Product	- 🗙
Туре	Buffer to COA 🗸 🗸	

- a. Description: Type a description for the transfer scheme
- b. Entity: Select the entity (Product or Item) to which the scheme applies
- c. Type: Select the type of transfer scheme:
 - i. Buffer to COA
 - ii. Purchase to Sales
 - iii. CIP to COA
 - iv. AB to COA

Once the new scheme is created you can extract selections, fields and add transformation rules.

<u>Important</u>: If you want the product schedule to be applied, there must be a reference (via the Product field) to products in the article schedule

2.1.2 Extract main selection

To extract a main selection for the scheme:

1. Through the Menu go to *System > Configuration > Transfer schemes* and select the scheme you need to edit:



2. Under Navigation, click on *Extract main selections*, and in the next window click on +Add.

🔦 Extract main selections 🗌	Ienu View	Edit Print	» Transfer scheme	e:Copy product
▶	9	1	2	
Filter	Search All	Details Manage S	Creen layouts Help	
Navigation 🛞	Assortment	code #Filter	CodeType a	#FilterCode
Transfer scheme:Copy				
Edit 🛞				
Add				
Modify				
Delete record (s)				

3. In the pop-up window:

Main selection		
Transfer scheme	Copy product to central environment	-
ssortment code	NEFIT	
lain selection type	Condition Group	
Nain selection code	C002	
include in selection	● Yes ○ No	

- a. Transfer schema: Transfer scheme to which the selection is applied (automatically selected).
- b. Assortment code: Code of the assortment from which the selection is made.
- c. Main selection type: Type of entity to which the selection is to be applied:



i. *Item Number*²: Selection concern one item.

² This filter option is *not* available for Product entity schemes.

- ii. Item group²: Selection concerns items in a group.
- iii. Condition Group²: Selection concerns items in a condition group.
- iv. Product class. Selection concerns products of a product class.
- v. Manufacturer: Selection concerns products of a manufacturer.
- d. Main selection code: Dependent on the *Main selection type*, this can be an item number, item group code, condition group code, product class code or manufacturer code.
- e. Include in selection: When set to *Yes*, records that conform to the *Main selection* criteria will be included in the selection, when set to *No* these records will be excluded.
- 4. Click on *Save*, to save the Main selection.

2.1.2.1 Purchase-to-Sales: Extract main selection (item)

In a Purchase-to-Sales scheme, item selection offers additional filtering option:

1. Through the Menu go to *System > Configuration > Transfer schemes* and select *Purchase to Sales* scheme:



2. Under Navigation, click on Extract main selections, and in the next window click on +Add.



3. In the pop-up window, set *Include in selection* to *Yes/No*, and go to the Filter tab:

Add - New extract main selection to transfer scheme Purchase to Sales scheme - Items				
Main selection	Filter			
Transfer scheme		Purchase to Sales scheme - Items	· · · · · ·	
Include in selection		● Yes ○ No		
		Save	Cancel	

4. On the Filter tab, use the filter options to select a set Items to be selected:

Main selection		Filter				
#Filter						
Assortment	(1)	equal	~	Albrand (albr123)		•
Assortment code		start	~	ABR01		
Item Number	(1)	between	~	1200	1500	
Item description	(1)	start	~			
Group Code	(1)	start	~	GR01		
Condition group code		start	~			
Code		start	~			

- a. Assortment: Select an assortment from the drop-down menu
- b. Assortment code: Select an assortment, based on the assortment code
- c. Item Number: Select specific Items based on (a range of) item numbers
- d. Item description: Select specific Items based on the item description
- e. Group code: Select specific Items based on the item group code
- f. Condition group code: Select specific Items based on the condition group code
- g. Code: Select specific Items based on the code of the manufacturer of the related product
- 5. Click on *Save* to save the main selection.

2.1.3 Extract subselection

To extract a subselection for the scheme:

1. Through the Menu go to *System > Configuration > Transfer schemes* and select the scheme you need to edit:



2. Under Navigation, click on *Extract subselections*, and in the next window click on +Add.



3. In the pop-up window:

Subselection	Filter		
Transfer scheme		Copy product to central environment	•
Description		All product with at least 1 attachement	

- a. Tab Subselection:
 - i. Transfer scheme: Transfer scheme to which the selection is applied (automatically selected).
 - ii. Description: Type a description for the subselection.

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#EditForm_TransferRule	Group	Filter				
Product						
Code	(1)	start	~			
GTIN	i	start	~			
Product description	i	start	~			
Brand	(start	~			
Series	(1)	start	~			
Туре	i	start	~			
Number of accessories		= value	~			
Archive time (product)		equal	~			
Amount of attachments		≥ value	~	1		
Batteries included				🔾 Yes 🔾 No 🔍 All		
BIM status				None	🗆 📟 Under construction	
				🗌 📟 Ready	🗌 💻 Test	
Classification Quality				Fill ETIM Product Class	All Required fields filled	

- b. Tab Filter: Use any (combination of) filter criteria to define the subselection. For instance, Amount of attachments ≥ 1
- 4. Click on *Save*, to save the subselection.

2.1.4 Extract fields

To extract fields for the scheme:

1. Through the Menu go to *System > Configuration > Transfer schemes* and select the scheme you need to edit:



2. Under Navigation, click on *Extract fields*, and in the next window click on +Add.



3. In the pop-up window:

Extract field		
Transfer scheme	CIP-to-COA	
Field	Product	- *
Transfer type	Overwrite target value	v
Create missing parent record	⊖ Yes ● No	

- a. Transfer scheme: Transfer scheme to which the selection is applied (automatically selected).
- b. Field: Select the Field to be extracted. Note: You can type (part of) the field named.
- c. Transfer type: Select how the Field is to be modified upon transfer
 - i. Overwrite target value: Always overwrite the value in the target field.
 - ii. Keep non-empty target value: Only overwrite target field if it is currently empty.
 - iii. Keep any target value: Do not overwrite the target field.
 - iv. Only overwrite if new record: Only overwrite the data field if the target record was newly created; i.e. do not update data fields of existing target records.
- d. Create missing parent record³: Set to *Yes* to create a copy of the missing parent record in the target environment. Set to *No* to omit creating a copy of the missing parent record in the target environment. Example: If an item is transferred, but the coupled product is missing in the target environment, then create a copy of the missing product in the target environment.
- 4. Click on *Save*, to save the Field extraction.

2.1.4.1 Add multiple fields

To quickly add multiple fields, use the +Add multiple fields option:

1. Through the Menu go to *System > Configuration > Transfer schemes* and select the scheme you need to edit:

Transfer schemes Menu View Edit Print						
Filter	Search All Details Manage Screen layouts Help					
Navigation 🛞	Description					
Extract main selections (1)	AB to Central scheme - Products					
	Purchase to Sales scheme - Items					
Extract subselections (1)	CIP-to-COA					
Extract fields (0)	Copy product to central environment					
Transformation rules (0)						
Configuration						

2. Under Navigation, click on *Extract fields*, and in the next window click on *+Add multiple fields*.

³ This setting is only available for parent fields which have a coupled field, such as Product, Assortment, Unit, etc.

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3. You will be presented with an overview of all available fields, which you can select (1), move to the 'shopping basket' (2) and finally transfer (3) to the scheme.

Field selection	View	3
Manage Filters	Search	All Manage Screen layouts Select Field Deselect Clear Transfer Stop Help
Description		
#MainProduct		
Additional description		
asdfasdfaf		
Available		
Batteries included		
BIM status		
Brand	Sel	ect fields
Breedte		
Brief description		
Code		
Code successor		
Commercial description	n	
Company-specific prod	uct code	
Contract categorie		
Country of origin		
Dangerous goods class	;	+Select Field
Date fully classified		
deci test etim kenmer	¢	
Description		
Dick		
Diepte		
Drawing		
End Date		
ERP code		
Model layer	Name	Description
Model	Status	Available
Model	BatteriesIncluded	Batteries included
Model	BIMStatus	BIM status
Model	Brand	Brand 'Shopping basket'
Userdefined field	Breedte	Breedte
Model	ShortDescription	Brief description
Model	Code	Code

4. <u>Important</u>: The default Transfer Type for all fields selected this way will be: *Overwrite target value*. Please make changes as needed.

2.1.4.2 Auto-add transferable fields

For *Items schemes only*, all transferable item fields can be added automatically:



1. Through the Menu go to *System > Configuration > Transfer schemes* and select the scheme you need to edit:



2. Under Navigation, click on *Extract fields*, and in the next window click on *+Add item fields*.

Extract fields Menu Vie	w	Edit Print » Tra	ansfer scheme:Purchase to Sale
▶		2 🗐 🗊	2.
Filter	Se	arch All Details M	anage Screen layouts Help
Navigation 🛞	^	Field	Field Name
Transformation rules (1)	•	Item Number	Code
Transfer scheme: Purch		Description	Description
		Commercial description	CommercialDescription
Edit 🛞		Technical description	TechnicalDescription
H Add		Group Code	GroupCode
#AddFields		Condition group code	ConditionGroupCode
Modify		Gross price info (with new startdate)	NewGrossPriceInfo
Delete record (s)		VAT type	VATType
Deate		Delivery Time	DeliveryTimeQuantity
Paste		Disposal	ClearanceSurcharge
Add all item fields		GTIN	GTIN

3. <u>Important</u>: The default Transfer Type for all fields selected this way will be: *Overwrite target value*. Please make changes as needed.

2.1.5 Transformation rules

To add transformation rules to a scheme:

1. Through the Menu go to *System > Configuration > Transfer schemes* and select the scheme you need to edit:



2. Under Navigation, click on *Transformation rules*, and in the next window click on +Add.

🔦 Transformation rules 🏾 M	enu View Edit Print » Transfer scheme: Purchas
▶.	⊇<\ 0 2 0 ↓
Filter	Search All Details Manage Screen layouts Help
Navigation 🔕	Field Name
Transfer scheme:Purch	> Code
Edit 🛞	
Add	
Modify	
Delete record (s)	

3. In the pop-up window:

📻 Wijzigen		
Transformation rule		
Extract subselection	Purchase to Sales scheme - Items Is an item for sale and in stock	*+ /
Extract field	Item description #Always	-
Rule type	Set value	
Description	Default description	
Value	This item is for sale and in stock	
Filter settings	is sales item is Yes and stock item is Yes	
	Save	Cancel

- a. Extract subselection (optional): Select a subselection to which this transformation rule should be applied. Using the buttons next to this field, a new subselection can be created (+), or selected subselections can be edited (pencil) or unselected (X).
- b. Extract field (mandatory): Select the extracted field to which this transformation rule should be applied.
- c. Rule type: Select the type of rule to be applied:
 - i. Generate number: Generate a (new) number for the extracted field.
 - ii. Set value: Set a (new) value for the extracted field.

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- iii. Use expression: Use an expression to calculate the value that will be set for the extracted field. See: <u>2.1.5.1 Use expression</u>.
- d. Description: Enter a description for this transformation rule.
- e. Value: Enter the value that should be set for the extracted field. This option is only available when the Rule type *Set value* has been selected.
- f. Filter settings: Overview of the filter options that have been set for the selected subselection.
- 4. Click on *Save*, to save the transformation rule.

2.1.5.1 Use expression

An expression can be used to calculate the value for an extracted field. Once the Rule type *Use expression* is selected (see <u>2.1.5 Transformation rules</u>), an additional tab appears for entering the expression:

📄 Wijzigen		•
Transformation rule	pression	
Extract subselection	Purchase to Sales scheme - Items Is an item for sale and in stock	
Extract field	Item description #Always	•
Rule type	Use expression 🗸	
Description	Default description	
Filter settings	is sales item is Yes and stock item is Yes	
	Save Cancel	

- 1. Rule type: Select the option Use expression.
- 2. Next, go to the *Expression* tab:

E Wijzigen	
Transformation rule Expression	
🔁 🐡 Ω - 🐇 ங 😩 🤊 - 😋 - 😫 🤀 🛍 📾	
- B Ⅰ 型 abe 臣 吾 吾 重 ■ x² ×₂ 柵 🏠 法 律 詳 伝 伝 🔯 😣 😣 Arial, Helveti ▼ 13px ▼ A ▼ 🖏 ▼ Apply	CSS Cl •
📓 🚰 📓 🥥 🕑 💌 Insert field 📲 💷 🖷 🕮 👘 👘 🗊 👘 👘 👘 👘 👘	
This is the default description of item no. [ItemRecord Code/]	

- 3. Enter an Expression into the text field. Either of the following options can be used:
 - a. Type a text, for instance for a description, brand, series, type or other text field
 - b. Use a (mathematical) expression, such as:

12-(360/60)

c. Use an expression in combination with standard data fields:

(32+(1.8*[ProductRecord.MaxMediumTemp/]))

- d. Use an expression in combination with user-defined fields.
- 4. Click on Save, to save the Transformation rule.

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For more information on the use of Expressions, see the Manual Expressions.

2.2 Navigating schemes

Schemes can be navigated through the Navigation menu in the left side panel. The navigation structure is as follows:

• Transfer scheme

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- o Main selection
- o Subselection
 - Transformation rules active per subselection
 - Extract fields
 - Transformation rules active per field
- o Transformation Rules: all transformation rules active under this transfer scheme

2.3 Set Product scheme

Only *one* Transfer scheme can be set for Products. After creating the scheme, go to *Menu > My Company Settings > Item Manager tab* to select it:



Important:

- The product field *must be included* in the item scheme; if you want the product scheme to be applied, there must be a reference (via the Product field) to products in the item scheme.
- There *must be cross-environment transfer*, otherwise it is simply a matter of assigning the same product from the source item to the target item. Note that an assignment of product to an item is an item change, not a product change. In most case, this will be true for a *CIP to COA scheme*.
- A (new) *product must be created.* This means, the Product field in the item scheme must be set to *Create missing parent record.* Or the previously allocated local product must deviate from the source product. But that must be a field that is included in the product schedule. Otherwise that field will not be included. See also first bullet.

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- <u>Note</u>: For now, the filter *Include in selection (Yes/No*) on the Product scheme is <u>not</u> active; Extract Fields and Transformation Rules of the scheme are always applied.

2.4 Set Assortment schemes

Per Assortment, *one* scheme can be set, which will be applied to all the items in the assortment. After creating the scheme, go to *Menu > Assortment > Item Manager tab* to select it:

npanos Companos		Sales	1			
🗐 Edit - A.O. Smith (AOSmith)						
Assortment Item Manager	Countries Memo UDF Translations					
Settings						
Queued	🚺 🔾 Yes 🖲 No					
Transfer	🚺 🔾 Yes 🖲 No					
Visible	● Yes ○ No					
Mutation E-mail	🚺 🖲 Yes 🔾 No					
Transfer scheme items	Purchase to Sales scheme - Items	- X				
data						
Transfer Date						
Number Pattern Items						
Item Number						
		Save Cancel				
		Save Cancel				

2.5 Applying a transfer scheme

Transfer schemes for *Items* are applied at the level of Assortments. A transfer should always be started manually, using the *Transfer* function:

Functions	\otimes
Transfer	
Quality Control	
Update Update	
From archive	

The transfer scheme for *Products* need not be applied manually. If present, the scheme will automatically transfer requested product information if this is called for by another transfer scheme.

<u>Note</u>: The product scheme *must* be set at *My company settings*, and while it is possible to define multiple product schemes, only one (1) can be active at any given time.

2.5.1 Transfer report

Manually applying a transfer scheme will generate a report, which will be sent via e-mail to the main user of the application.

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Overzetten Assortiment: Door over te zetten zet u de artikelen/producten vanuit de brenger-omgeving over naar de centrale omgeving. Rapportage niveau Alle behalve de productklasse kenmerken Geen Alleen waarschuwingen Alle behalve de productklasse kenmerken Volledig	<u> </u>	
Assortiment: La lange lange overzetten. Door over te zetten zet u de artikelen/producten vanuit de brenger-omgeving over naar de centrale omgeving. Rapportage niveau Alle behalve de productklasse kenmerken Geen Alleen waarschuwingen Alle behalve de productklasse kenmerken Volledig	~	
Door over te zetten zet u de artikelen/producten vanuit de brenger-omgeving over naar de centrale omgeving. Rapportage niveau Alle behalve de productklasse kenmerken Geen Alleen waarschuwingen Alle behalve de productklasse kenmerken Volledig	~	
Rapportage niveau Geen Alleen waarschuwingen Alle behalve de productklasse kenmerken Volledig	~	
Geen Alleen waarschuwingen Alle behalve de productklasse kenmerken Volledig		
Alleen waarschuwingen Alle behalve de productklasse kenmerken Volledig		
Alle behalve de productklasse kenmerken Volledig		
Volledig		
Overzetten	Chultere	

The reporting level can be set to:

- None
- Only warnings
- Everything except product class features
- Everything

Depending on the reporting level settings, the report will list:

- All new Items
- Alle new Products
- All mutations on Items
- All mutations on Products, in- or excluding product class features

	Α	В	С	D	E	F	G	н	I.	J	К
1		Bron									
2		Gebruiker	Boris Jansen								
3		Datum	11-2-2021 16:54								
4											
5		Inleiding									
6											
7		In dit rapp	ort staat de impact van de hie	rboven genoen	nde actie in	detail uitgewe	erkt. Dit rappo	rt bestaat u	it verschillende o	nderdeler	1:
8											
9		1. Hierond	er de totalen van de mutaties	per bestand.							
10		2. Overzich	nt van de 224 nieuwe artikeler	1							
11		3. Overzich	nt van de 1082 gewijzigde artik	elen							
12		4. Overzich	nt van de 401 gewijzigde produ	ucten							
13											
14			Totalen								
15				Aangeboden	Verwerkt	Ongewijzigd	Toegevoegd	Gewijzigd	Totaal mutaties	Gevuld	Geleegd
16			Artikelen	1321	1321	15	224	1082	1306		
17			Bruto gewicht					1082		90	5
18			Product					2			2
19			Producten	401	401	0	0	401	401		
20			Archiveringstijdstip product					38			
21			Commerciële omschrijving					201			
22			Merk					396			
23			Product omschrijving					401			
24			Serie					388			
25			Туре					4			
26											
27											
28											
29											
30											
31											
32											
33											
34											
35											
36											
37											
38											
4	•	Samen	vatting Nieuwe Artikelen	Gewijzigde A	rtikelen	Gewijzigde Pr	oducten	+			

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2.6 Modifying schemes

Schemes, selections, and rules can be modified using the Modify function:



2.7 Deleting schemes

Schemes, selections, and rules can be deleted using the Delete record(s):

Edit	\otimes
Add	
Add multiple fields	
Modify	
Delete record (s)	
Paste	
Add all item fields	

2.8 ETL multilingual transformation

In a multilingual environment, transformations can now be done on language-specific fields. This applies to all multilingual fields on the ETL-supported entities (product and item).

Examples

- 1. Selective transfer of translations from the CIP to the COA environment: e.g. transfer multilingual source data (e.g. FR, DE, EN, NL) to the COA after reading into the CIP, whereby only part of the translations are copied, leaving only DE and EN descriptions.
- 2. Language-dependent content generation: based on a formula in the ETL, it is possible, for example, to generate a commercial description using a combination of fixed texts and product/article characteristics. In a multilingual environment, the result can be written in a language-specific field.
- 3. Populate language-specific fields with the value of other fields: For example: transfer the *long description to short description*.