

# Product / article relations exchange format

Extension to the product- & article file (PAB 2.0)

(Dutch: "Koppeltabel")

Version: 1.3

Release data: 2016-06-08
Status: Definitive
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### **Version / revision history**

In this chapter, changes in relation to the previous format and history of the document can be found. The last changes are mentioned as last.

The version number of the format exists of two parts <main number>.<sub number> for example 1.8. In the case of small changes, only the sub number will be increased. In the case of major changes the main number will be increased and the sub number set to 0. Also in the case of an increase of the main number, the history table below will be updated.

Document- revision	Format- version	Remark
2008-02-15	1.0	Initial version on basics CCS (29-03-2007). <kreijenbroek, "proposal="" (2007)="" an="" article="" as="" ccs,="" en="" extension="" file"<="" m="" p="" product="" product-="" relations="" td="" the="" to="" zwakhals,=""></kreijenbroek,>
2008-03-08	1.01	Corrections after internal checks by 2BA
2008-03-12	1.02	Corrections after internal checks by 2BA
2016-06-08	1.03	English translation by 2BA.

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### 1 Introduction

From several costumers we have received requests to make it possible to associate different product and articles.

#### 1.1 Occasion

Of course it is possible to associate products with each other products on the basis of the technical characteristics from the ETIM product classification. Apart from the fact that not every product is classified on the basis of ETIM, there is also missing data which is important for one or more layers out of the supply chain. For example a toilet seat which fit on a toilet bowl will not always have the same appearance.

#### 1.2 Current situation

The combination Brand-Series-Type offers an opportunity but is also not sufficient. Manufacturers often have more information about relations between products which cannot be exchanged with the use of current data exchange files. Current situation:

In the current model there are two possibilities:

- 1. Product level: Predecessor and successor.
- 2. Article level: references to a product, predecessor and successor.



### 2 Data structure

We distinguish three types of references:

PP Product - Product

AA Article - Article

PA Product - Article

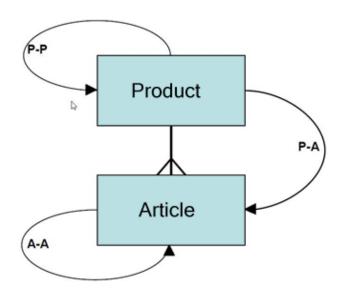


Figure 1 – Scheme with possible references



### 3 File structure

The File attachment index is a text file according ASCII (ISO-8859-1 / Latin1) coding, in which the fields are separated by a [TAB]-code (ASCII character 9). In this format there is no mandatory field length, but all fields have to end with an enter (ASCI character 13 and 10).

### 3.1 Format definition

This chapter describes the format of the ASCII text files. Each file has the following definitions:

Veldnaam	Fieldname	ne The maximum length of the field	
Formaat	Format	The format of the field:  > A = Alphanumeric  > N = A round number (without preprocessing zero)  > D = Decimal number. D 6.4 means max 6 numbers in front of the decimal symbol and maximum 4 after it. The maximum value for this number is "999999.9999". The length of this number is 1, including the decimal symbol. It is not necessary to fill out this number with zero's.	
		Decimal symbol = "." A separation stabbing at 1.000 is not allowed.	
V/O	V/O	V = Mandatory (verplicht) and O = Optional	
Toelichting	Explanation	Short explanation of the field.	

### 3.2 File definition "Koppelingen.txt"

Veldnaam (Dutch)	Fieldname	Length	Туре	V/O	Description
IDType	IDType	2	Α	V	PP, PA or AA (ref. chapter 2)
ID1 GLN Leverancier	ID1 GLN Supplier	13	N	V	ID1
GTIN product/artikel	GTIN product/article	14	N	0	ID1
Product-/artikelcode	Product-/article number	20	Α	V	ID1, if unknown specify GTIN
Koppeltype	Relation type	3	Α	V	Rel. chapter 4
ID2 GLN Leverancier	ID2 GLN Supplier	13	N	V	ID2
GTIN product/artikel	GTIN product/article	14	N	0	ID2
Product-/artikelcode	Product-/article number	20	Α	V	ID2 if unknown specify GTIN
Aantal ingesloten	Count of included	16 (12,3)	D	0	Default =1
Eenheid aantal ingesl.	Unit of number included	3	Α	0	List A (ref. chapter 5)
GLN eigenaar koppeling	GLN owner relation record	13	N	V	
Datum koppeling	Initial date relation record	8	N	V	Format: CCYYMMDD

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### **IDtype**

We distinguish three ID-types (PP, PA and AA). We assume that these three types are distributed in one uniform table.

Character 1 is the type of ID1 and character 2 is the type of ID2.

If ID1 is a reference to a product and ID2 is a reference to an article then the ID type we use is PA.

#### ID1 and ID2

ID1 and ID2 identify the products/articles through GLN and product- or article number. The join-type identifies if ID1 and ID2 should be read as products or as articles. In the format of the PALF the order is defined by time and from big to small. ID1 is older than ID 2; ID1 is bigger than ID2.

### **Multiple sources**

Because of the possibility of multiple sources of a reference, in this model is chosen that every reference has an owner. All sides can offer a reference. When a manufacturer or importer, being the responsible party of this product, offers the reference, this one will be leading above other references.



### 4 Reference types

In this document we distinguish the following reference types:

Code	Code name	PP	PA	AA	ID1 > ID2	ID2 > ID1
PRE	Precedes	<b>&gt;</b>		~	Predecessor	Successor
COM	Comparable	<b>&gt;</b>		~	Comparable and alternative	
CNO	Comparable Norm product	<b>&gt;</b>	~		meets requirements norms	
CON	Contains	<b>&gt;</b>	~	~	Contains part	is part of
BE2	Belongs to	>	~	<b>&gt;</b>	from the same series / part of	
FI2	Fits to	>	<b>&gt;</b>	>	fits on / closes it on to	
PCH	Parent Child		~	~	is product of	Is article with

### 4.1 Compare

#### **Precedes**

Precedes is a special compare in witch ID 1 and ID2 are supplied by the same supplier in which ID1 is marked as "End-of-life" (in Artlev.txt). For example product X (ID1) is predecessor of product Y (ID2) from the same manufacturer. Product Y is probably changed in size and version.

### Comparable

Two products with the same characteristics. Not necessarily from the same manufacturer.

### **Comparable Norm product**

The characteristics of norm product P1 (ID1) are 100% applicable to product X (ID2).

### 4.2 Group

### **Contains**

Some products contain components which are orderable as parts. For example a boiler and a burner.

#### **Belongs to**

Products that belong together based on their appearance.

#### Fits to

Products that fit on each other, like a bolt and nut.

#### 4.3 Related

#### Parent - Child

For third-parties to supply a relation between a product and article information.



# 5 Unit enclosed article or product

The list below is from ASCII PAB 2.03 standard.

# List A (Content unit etc.)

Code	Description
CMT	Centimeter
GRM	Gram
KGM	Kilogram
LTR	Liter
MMT	Millimeter
MTK	Square meter
MTQ	Cubic meter
MTR	Meter
PCE	Piece
TNE	Ton