

David

Technical description

(Manufacturer database solution)

Table of contents

1	The purpose of the document.....	3
2	Resumé of the solution description.....	3
2.1	Clarification of concepts	3
2.2	Simplified flow	4
2.3	Simplified sequence diagram	5
3	The aim	5
3.1	EnqueryResponse	5
3.2	Field descriptions	6
4	Data model.....	9
5	Import files.....	11
5.1	Content of import files	11
5.1.1	Buyers.csv	11
5.1.2	Items.csv	12
5.1.3	Fees.csv.....	12
5.1.4	NetPrices.csv	12
5.1.5	ItemAvailability.csv	12
6	Conditions	13
7	Contact details, EG	13

1 The purpose of the document

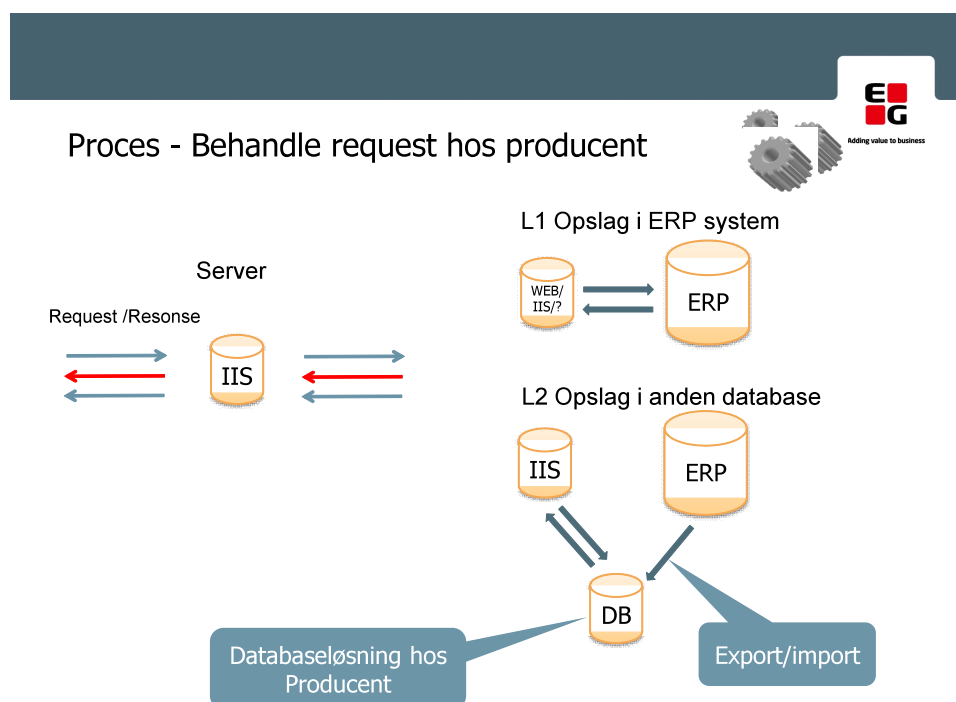
The purpose of this document is to outline the technical aspects of the solution described in section 4.2.3 of the document "DAVID – enquiries relating to special order goods V2.0", often referred to as "the manufacturer's database solution".

This document outlines the details regarding the data model as well as the format of import/export files, which the manufacturer undertakes to make available.

2 Résumé of the solution description

A simplified résumé of the solution, based on section 4.2.3 of the document "DAVID – enquiries relating to special order goods V2.0", follows:

In cases where integration directly with the manufacturer's ERP system is not possible, a database solution is used which contains information relevant to the solution description. The diagram below concerns L2.



2.1 Clarification of concepts

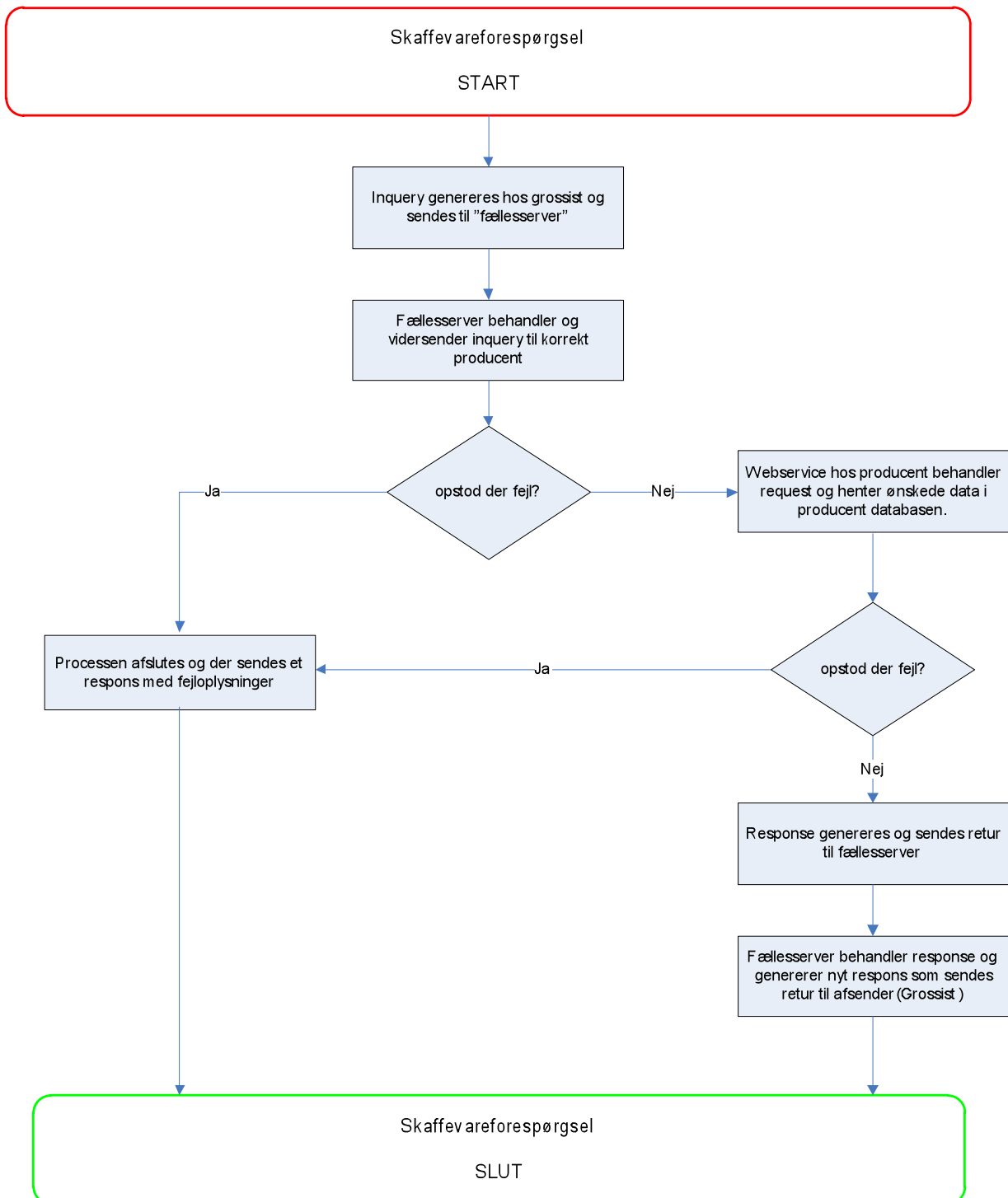
An enquiry relating to special order goods is defined by an HVAC order object (described in the current special order goods solution between individual wholesalers and manufacturers – see section 13, EDI guideline). The HVAC order object consists of an xml structure, which can include an enquiry object – this object constitutes the actual enquiry relating to special order goods.

Enquiry = enquiry relating to special order goods

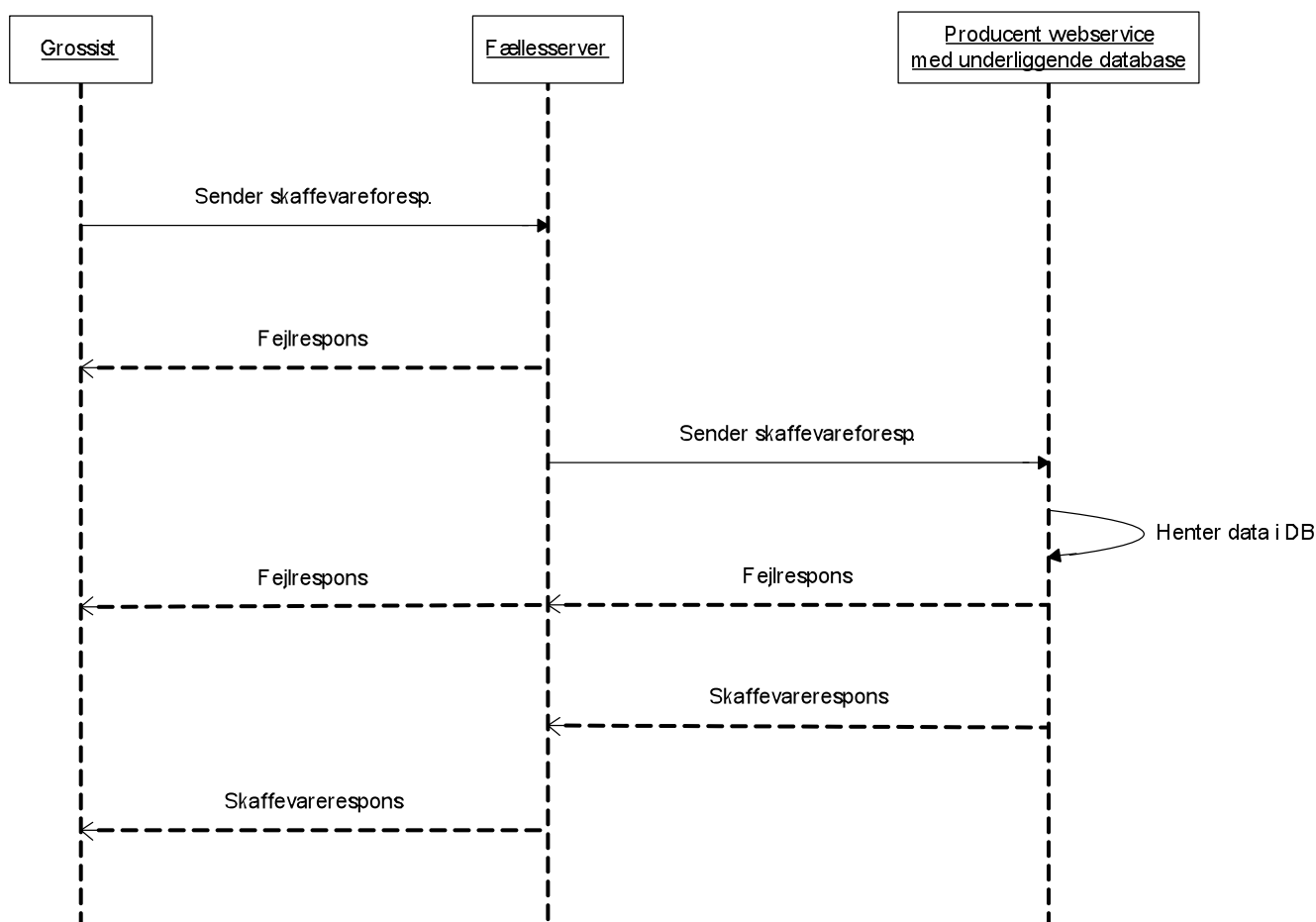
The response to an enquiry relating to special order goods is called an Enquiry Response and is also packaged in an HVAC order object. See attached XSD for further reference.

2.2 Simplified flow

Skaffevareforespørgsel, producentdatabase – simpelt flow



2.3 Simplified sequence diagram



3 The aim

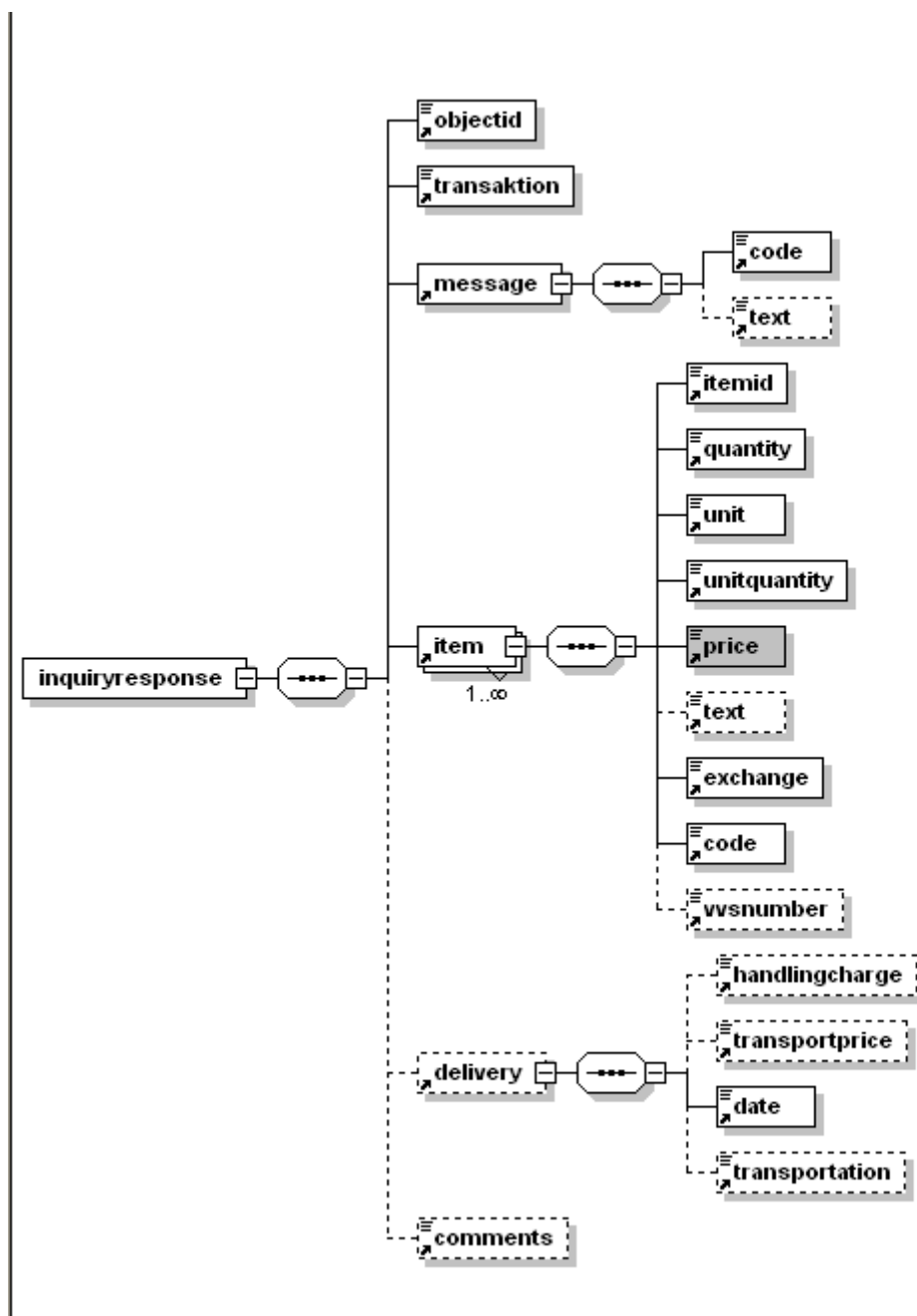
The aim is to be able to generate an Enquiry response to an Enquiry request generated by the wholesaler, cf. the modified specifications from DAVID – see Annex 3, "DAVID – enquiries relating to special order goods V2.0".

The look of the enquiry request is not important in relation to the manufacturer solution.

What is important is that the data model in the manufacturer's solution supports the generation of the correct Enquiry response.

3.1 Enquiry Response

The Enquiry Response object consists of an xml structure which can be graphically illustrated as follows:



3.2 Field descriptions

The following is an extract from section 4.2.3 of the document "DAVID – enquiries relating to special order goods V2.0":

N2	N3	N4	N5	L	%	Required	Tekst
Enquiry response						no	? Why no?
Enquiry re- sponse	Object ID					yes	Identification from wholesaler
Enquiry re-	transaction				%		Not used (only 0010)

sponse									
Enquiry re- sponse	message								yes
Enquiry re- sponse	message	code							yes
Enquiry re- sponse	message	text							no
Enquiry re- sponse	item+								yes
Enquiry re- sponse	item+	Item ID							yes
Enquiry re- sponse	item+	quantity							yes
Enquiry re- sponse	item+	unit							yes
Enquiry re- sponse	item+	unit quantity							yes
Enquiry re- sponse	item+	price							yes
Enquiry re- sponse	item+	list price	-{}-		new				no
Enquiry re- sponse	item+	text							no
Enquiry re- sponse	item+	exchange							yes
Enquiry re- sponse	item+	code							yes
Enquiry re- sponse	item+	itemdeldate			new				yes
Enquiry re- sponse	item+	comments			new				no
Enquiry re- sponse	item+	HVAC num- ber							no
Enquiry re- sponse	item+	itemeanumber			new				no
Enquiry re- sponse	delivery								no
Enquiry re- sponse	delivery	Handlingcharge							no
Enquiry re- sponse	delivery	transportprice							no
Enquiry re- sponse	delivery	allitemdeldate			new				yes

Return code which explains how things went at the manufacturer's. **Applies to all items.**

Text for clarification/supplement of return code

Recipient's (manufacturer) product number. Must be completed. **Either Item ID, HVAC number or EAN number must contain a product number**

Quantity of goods – required quantity in Enquiry request, possible quantity in Enquiry response. If a value has been filled out in item.price, this field must also show a value.

Item's unit quantity. If a value has been filled out in item.price, this field must also show a value.

States the quantity included in the item's unit. Helps to define the unit. E.g. Can you order 3 X '50' kg, where '50' is unit quantity and 3 is quantity.

Enquiry is blank. Enquiry response must show manufacturer's net price. This net price will then show in Order request.

list price – either list price or net price (price) must/should be completed

Item description for creation of EDIFACT order

Currency of the item. If a value has been filled out in item.price, this field must also show a value.

Return code containing the manufacturer's delivery date or -1. If there is a 1-n item with a delivery date, all these items should contain the same date, i.e. the date of the item with the longest delivery.

Value always -1 in request. **Code = 0 or -1 see <itemdeldate> ???**

<itemdeldate> is used instead of <code> to contain delivery date

Text for clarification/supplement of response (e.g. if code = -1 -> "Ring")

HVAC number

EAN number of item

Handling charge

Freight charges

Earliest date for delivery of all items

Enquiry re- sponse	delivery date		yes	Requested delivery date in Enquiry transaction. Must remain as requested delivery date in re- sponse from manufacturer.
Enquiry re- sponse	delivery transportation		no	Sender's details re. transport (freight company)
Enquiry re- sponse	comments		no	Comments

4 Data model

To support the data which will form the basis of the generation of Enquiry response, the following data model has been prepared:

Column Name	Condensed Type	Nullable	Description
buyerEAN_ref	varchar(13)	No	Grossistens EAN nummer reference
selersitemid_ref	varchar(25)	No	Angiver producentens varenummer reference
unit	varchar(3)	No	Angiver enhed på varen
price	decimal(18, 0)	No	Angiver nettopris for varen for den pågældende grossist i valutaens basisenh...
currency	varchar(3)	No	Angiver valutakode - eksempelvis DKK for danske kroner
TIMESTAMP	datetime	No	Tidsstempel som angiver hvornår en record sidst er opdateret

Column Name	Condensed Type	Nullable	Description
EANLocation	varchar(13)	No	EAN nummer tilhørende grossisten
name	varchar(100)	No	Navn på grossisten
[user]	varchar(15)	No	brugernavn som bruges ved login i forespørgsler
password	nchar(15)	No	Password som benyttes ved login i forespørgsler
TIMESTAMP	datetime	No	Tidsstempel som angiver hvornår en record sidst er opdat...

Column Name	Condensed Type	Nullable	Description
selersitemid_ref	varchar(25)	No	Producent varenummer
availabilityDate	date	No	Angiver dato for lagerbeholdning
availableInventory	int	No	Angiver antal på lager på pågældende dato
TIMESTAMP	nchar(10)	No	Tidsstempel som angiver hvornår en record sidst er opdat...

Column Name	Condensed T...	Nulla...	Description
selersitemid	varchar(25)	No	Producent varenummer
ItemEANNumber	varchar(13)	Yes	Angiver EAN-13 varenummer
VVSNNumber	varchar(9)	Yes	Angiver VVS varenummer
ItemDescription	varchar(200)	Yes	Varebeskrivelse
baseUnit	varchar(3)	No	Angiver basis enheden (mindste enhed)
ItemWeight	int	Yes	Angiver vægten på varen i kg
ItemPrice	decimal(18, 0)	No	Angiver listeprisen
unitQuantity	int	Yes	Angiver det antal der indgår i varens enhed. Er med til at definerer enheden. Feks. Kan man bestille 3 a '50' kg, hvor '50' er unitquantity og 3 er qua...
stock	int	Yes	Angiver antal på lager lige nu
ItemFixedDelDate	int	Yes	Hvis oplyst - angiver en fast leveringsdato for den pågældende vare. Hvis ikke oplyst benyttes opl. fra ItemAvailability tabellen
TIMESTAMP	datetime	No	Tidsstempel som angiver hvornår en record sidst er opdateret

Column Name	Condensed T...	Nulla...	Description
Guld	uniqueidentf...	No	Global Unique Identifier - nogle der unikt identificerer præcist én record i tab...
ItemEANNumber	varchar(13)	Yes	Varens EAN nummer
selersitemid_ref	varchar(25)	Yes	Producentvarenummer
requestUnit	varchar(3)	Yes	enhed angivet i request
requestQuantity	int	Yes	Ønsket antal
requestTOD	date	Yes	requested time of delivery - ønsket leveringstidspunkt
responseQuant...	int	Yes	oplyst antal som kan leveres
responseTOD	nchar(10)	Yes	response Time Og Delivery - oplyst leveringstidspunkt
netPrice	decimal(18, 0)	Yes	nettopris
ItemPrice	decimal(18, 0)	Yes	Listepris
TIMESTAMP	datetime	No	Tidsstempel der angiver hvornår logningen blev foretaget

Column Name	Condensed Type	Nullable	Description
selersitemid_Ref	varchar(25)	No	Angiver producentens varenummer reference
FeeType_ref	int	No	Angiver gebyr typens reference - 1 = AmountDepending, 2 = WeightDepending
Interval	int	No	Angiver slutintervallet for det aktuelle gebyr. Eksempelvis 1, eller 5 eller 10 for vægtafhængigt gebyr. (100, 500 eller 1000 for beløbsafhængigt ge...
fee	decimal(18, 0)	No	Angiver selve
currency	varchar(3)	No	Angiver valutakode - eksempelvis DKK for danske kroner
TIMESTAMP	datetime	No	Tidsstempel som angiver hvornår en record sidst er opdateret

Column Name	Condensed Type	Nullable	Description
paramId	int	No	Internt nøglefelt
HandlingFeeAmount	decimal(18, 0)	Yes	Angiver ekspeditionsgebyr pr. vare
HandlingFeeEnabled	bit	Yes	Angiver om ekspeditionsgebyr skal beregnes eller ej
AddOneDelDayAfter	time(7)	Yes	Angiver seneste ordre tidspunkt før der tilføjes en ekstra dags lever
FreightCostsEnabled	bit	Yes	Angiver om fragtomkostninger skal beregnes
FreightCostsAmount	decimal(18, 0)	Yes	Angiver fragtomkostninger pr. vare
NetPricesEnabled	bit	Yes	Angiver om nettopriser kan såes op eller ej
DelDateCheckEnabled	bit	Yes	Angiver om leveringstid kan såes op
FixedDelDate	int	Yes	Angiver fast leveringstid for alle varer
AvailabilityCheckEnabled	bit	Yes	Angiver om disponibel beholdning kan oplyses

Column Name	Condensed Type	Nullable	Description
feeTypeId	int	No	
feeType	nvarchar(25)	No	

The manufacturers will supply data to the above data model.

As far as the **TIMESTAMP** fields are concerned, it is internal fields which are automatically defined by the system on import. This field must not therefore be included in the import files.

Should there be any disagreement between the chosen data types in the above model and the data types used by the manufacturers, these must be incorporated into the model.

5 Import files

By import files is meant the files supplied by the manufacturers to the above data model which are automatically "imported" into the model.


The import files are csv files, where ; is used as a delimiter.

The following import files are also suggested:



- Buyers.csv
- Items.csv
- Fees.csv, where Feetype_ref can assume the following values 1 = AmountDepending, 2 = WeightDepending
- NetPrices
- ItemAvailability.csv

5.1 Content of import files




5.1.1 Buyers.csv

	Column Name	Data Type	Allow Nulls
	EANLocation	varchar(13)	<input type="checkbox"/>
	name	varchar(100)	<input type="checkbox"/>
	[user]	varchar(15)	<input type="checkbox"/>
	password	nchar(15)	<input type="checkbox"/>




5.1.2 Items.csv

	Column Name	Data Type	Allow Nulls
	sellersItemId	varchar(25)	<input type="checkbox"/>
	itemEANNumber	varchar(13)	<input checked="" type="checkbox"/>
	VVSNumber	varchar(9)	<input checked="" type="checkbox"/>
	itemDescription	varchar(200)	<input checked="" type="checkbox"/>
	baseUnit	varchar(3)	<input type="checkbox"/>
	itemWeight	int	<input checked="" type="checkbox"/>
	itemPrice	decimal(18, 0)	<input type="checkbox"/>
	unitQuantity	int	<input checked="" type="checkbox"/>
	stock	int	<input checked="" type="checkbox"/>
	itemFixedDelDate	date	<input checked="" type="checkbox"/>



5.1.3 Fees.csv

	Column Name	Data Type	Allow Nulls
	sellersItemId_ref	varchar(25)	<input type="checkbox"/>
	FeeType_ref	int	<input type="checkbox"/>
	interval	int	<input type="checkbox"/>
	fee	decimal(18, 0)	<input type="checkbox"/>
	currency	varchar(3)	<input type="checkbox"/>

5.1.4 NetPrices.csv

	Column Name	Data Type	Allow Nulls
	buyerEAN_ref	varchar(13)	<input type="checkbox"/>
	sellersItemId_ref	varchar(25)	<input type="checkbox"/>
	unit	varchar(3)	<input type="checkbox"/>
	price	decimal(18, 0)	<input type="checkbox"/>
	currency	varchar(3)	<input type="checkbox"/>

5.1.5 ItemAvailability.csv

	Column Name	Data Type	Allow Nulls
	sellersItemId_ref	varchar(25)	<input type="checkbox"/>
	availabilityDate	date	<input type="checkbox"/>
	availableInventory	int	<input type="checkbox"/>

6 Conditions

- Import files are made accessible by the manufacturer
- Database and web service are set up and configured on servers which are accessible from web
- If the manufacturer does not have an existing MS SQL server, the data model is implemented on an MS SQL Server Express
- The manufacturer considers whether a certificate is to be set up on web server so that data interchange can take place via HTTPS in the entire flow.
- Web service is .net based and therefore runs on an IIS – ideally 6.0 or above.
- It must be possible to install a windows service to run once OS is started up.

7 Contact details, EG

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