

Interface Description



myinventory B2B
Standard ASCII B2B Interface

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Change Log

Ver.	By	Date	Comments
0.1	Thomas Fleisch	20.06.2007	Created
0.3	Dragan Jankovic	26.06.2007	Orders interface
1.0	Dragan Jankovic	12.07.2007	Completed
1.0	Dragan Jankovic	18.07.2007	Added widths definitions in Order file description
1.0	Dragan Jankovic	20.07.2007	Standard separator changed
1.0	Dragan Jankovic	03.08.2007	Vendor Name and ID added to order file too
1.0	Adam Johnson	04.09.2007	Tax % Field added to Invoice
1.0	Adam Johnson	07.09.2007	Tax Amount Field Added to Invoice
2.0	Thomas Fleisch	03.02.2010	
2.1	Thomas Flore	05.09.2012	Change Order – Move Vendor Name to Pos 1 and Vendor ID to POS 2

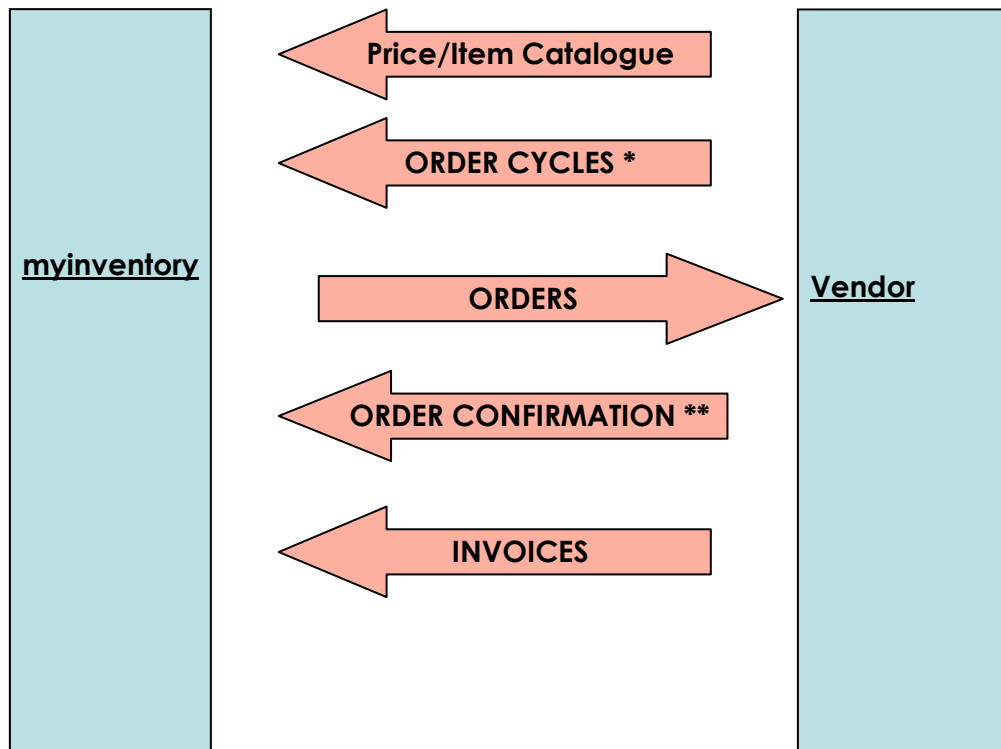
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ABSTRACT

This paper document describes the electronic business messaging from the myinventory application using a proprietary standard. Some of the features have yet to be completed; however these will be updated as the project progresses.

The diagram below showing how messages interact between myinventory and the vendor



* Order Cycles can also be entered manually into myinventory.

** Order Confirmations are used in myinventory as Order Acknowledgements. Enabling the user to know that the order has been successfully received by the Vendor.

PRICE/ITEM CATALOGUE /ORDER GUIDE

The Price/Sales Catalogue (Order Guide) message is sent from the vendor to his customers. The message is used as a catalogue or list of all of the vendor's products or as an advanced warning to particular changes in the product line. The catalogue would include descriptive, logistical, and financial information about each product.

The message can contain general information about the products, valid for all customers or provide a single customer with specific product information such as special pricing conditions.

The message will be resent when there are any changes, deletions or additions to the vendor's products. The Order Guide can be resent and loaded daily, if user so wishes.

ORDER CYCLES

Order cycles are used to allow users only to book orders that have valid order cycles in line with the vendor's requirements/needs. Cut off times can also be used to stop users sending orders after the deadline, which can vary depending on the vendor.

Order cycles can be entered into myinventory in two ways, automatically via a file from the vendor or manually entered into the system.

PURCHASE ORDER (ORDERS)

The Purchase Order message is sent by the customer to his vendor to order goods or services and to specify the relevant quantities, dates and locations of delivery. The message will refer to the location and product codes exchanged previously in the Price/Sales Catalogue (Order Guides) messages. It is intended to be used for the day-to-day ordering functionality, as a general rule, one Purchase Order per delivery, per location. However, it is possible to request deliveries at several locations and on different dates. It is also possible for one location to place all their weekly orders on one day to be delivered on different days when using valid order cycles.

PURCHASE ORDER RESPONSE/ORDER CONFIRMATION

The Purchase Order Response is sent by the vendor to his customer on receiving this message myinventory amends the status of the order to acknowledged, so that the customer is aware that the order has been received and accepted by the vendor.

INVOICE/CREDIT NOTE

The Invoice message is sent by the vendor to the customer claiming payment for goods or services supplied under conditions agreed by the seller and the buyer. This same message with correct data qualification also covers the functions of pro-forma invoice, debit and credit note. The Invoice is normally received per delivery, with any credits required being sent a few days later, although this will vary from vendor to vendor.

GENERAL

The interface described in this document is a proprietary one utilizing the following conventions.

FILE CONVENTIONS

The data is transmitted via ASCII files in this format:

- The file will be defined as ASCII text file
- Records will be separated with CR+LF or ASCII-Code 13 and 10
- Fields will be separated with | character ("pipe")
- Decimal separator will be dot (.)
- Thousand separator MUST NOT be provided
- Date values have to be in format: yyyyMMdd = 4 digits for the year, 2 digits for the months, 2 digits for the day
- Time values have to be in format hh:mm:ss = 2 digits for the hours (0-23), 2 digits for the minutes (0-59), 2 digits for the seconds (0-59)

FILE AND RECORD STRUCTURE

A table view is used to describe the record structure. Every element will be shown in a separate line, every line contains 6 columns:

- Pos – sequential number defines the position of the field in the record
- Field Name – describes the element
- M / O – Field properties (see description below)
- Data type – Data Type (see description below)
- Explanation – Detailed description of the content
- Example – sample values

Field properties

- M ... mandatory; this field MUST contain data
- O ... optional

Data type

- STRING, xx ... Text field with a maximum length of xx
A single quotation (') is NOT allowed and will be replaced by myinventory
- NUMBER ... numeric field; negative numbers will have a leading minus
- DATE ... Date Field; yyyyMMdd = 4 digit year, 2 digit month, 2 digit day
- TIME ... Time field: hh:mm:ss = hours, minutes, seconds

FILE TRANSMISSION

myinventory supports the following file transmission methods:

- Local file storage
The files are placed or reads from a local or network shared folder
- FTP
- FTPS
- HTTP Post
- WEB Service
- Email (Purchase Orders only)

PRICE/ITEM CATALOGUE/ORDER GUIDE

The format described below does not describe a standard import of item catalogue. This format was developed based on our experiences to enable a simple and easy-to-implement data exchange.

Alternatively we recommend using EANCOM (EDI) which is based on the UN/EDIFACT (United Nations Electronic Data Interchange for Administration, Commerce and Transport,). This comprises of an internationally agreed standards, directories and guidelines for the electronic interchange of data.

MESSAGE STRUCTURE

order.myinventory.flat.template

Pos	Field Name	M/O	Type	Explanation	Example
Vendor					
1	Vendor ID	M	NUMBER	Vendor Identification Number	1004
2	Vendor Name	O	STRING, 60	Vendor Name	Starbucks
Item Identification					
3	Item No.	M	STRING, 20	Item Number	4711
4	Item	M	STRING, 60	Item Name	Linsen
5	Item Info	O	STRING, 60	Not supported	
6	Alternative Item No.	O	STRING, 20	Not supported	
Producer					
7	Producer No.	O	String, 20	ILN (Producer Number)	
8	Producer Article No.	O	STRING, 20	Article Number identified by Producer	
9	Producer	O	STRING, 60	Producer name	
10	Country of Origin	O	STRING, 60	Country of Origin	
Item Detail					
11	Item Group	M	STRING, 60	Item Group of Item	
12	Order Unit	M	STRING, 60	Order Unit abbreviation	Case
13	Order Unit Info	O	STRING, 60	Full Order Unit Name; This is visible in myinventory and is created by the system if not provided by the Vendor.	Case à 12 1/1 Can
14	Base Order Quantity Unit	O	STRING, 60	Unit name contained in Order Unit	Can
15	QTY/Base Order Quantity Units	M	NUMBER	QTY of contained units within Order Unit	12
16	Weight Item	M	NUMBER	Catch Weight Item flag; 1 = Item is a catch weight one; otherwise 0	0
17	Split Item	M	NUMBER	Not supported	0

18	Fixed Order QTY	O	NUMBER	Not supported	
Price					
19	Price Valid From	M	DATE	Price validity start date	20011001
20	Price Valid To	O	DATE	Price validity end date	
21	Price/Order Unit	M	NUMBER	In general price refers to Order Unit.	100
22	Discount	O	NUMBER	Not supported	0
23	Sales Price	O	NUMBER	Not supported	
Barcode					
24	Barcode Order Unit	O	STRING; 20	Barcode for Order Unit	
25	Barcode Base Order Quantity Unit	O	STRING; 20	Barcode for Base Order Quantity Unit	
Unit					
26	Net Weight	O	NUMBER	Not supported	0,85
27	Base Unit	O	STRING; 20	Not supported	KG

- Split Items
The vendor must provide with the order guide a line per possible order unit. If the item can be ordered in case and each 2 lines must be provided in the catalog. The 2 lines are differentiated by "QTY/Base Order Quantity Units" which represents the content (e.g. Case 12 Cans whereby both the can and the case can be ordered: QTY/Base Order Quantity Units = 12 for the case and 1 for the can).

The primary key is Item No + QTY/Base Order Quantity Units

- Catch weight Items
Definition: Ordered in Case; delivered and invoiced in LB; the price in the catalog refers to LB:

Weight Item = 1

FILE TRANSMISSION

Price/Item Catalogue should be provided as a single file always using the same file name.

ORDER CYCLES

The format described below does not describe a standard import of order cycles. This format was developed based on our experiences to enable a simple and easy-to-implement data exchange.

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MESSAGE STRUCTURE

ordercycle.myinventory.flat.template

Pos	Field Name	M/O	Type	Description	Example
Vendor					
1	Vendor ID	M	NUMBER	Vendor identification (e.g: GLN)	5012345000004
2	Vendor Name	M	STRING, 60	Name of the vendor	3663
3	Delivery Location ID	M	NUMBER	Identify the delivery location as defined per vendor (e.g: GLN)	92096
4	Delivery Date	M	DATE	Date of delivery	20050805
5	Delivery from	O	TIME	Delivery window start time	10:00
6	Delivery to	O	TIME	Delivery window end time	14:00
7	Order cut-off date	M	DATE	Order cut-off date	20050801
8	Order cut-off time	O	TIME	Order cut-off time	15:00

The lines 5, 6 and 8 are only for informational purpose myinventory do NOT process these data.

PURCHASE ORDER (ORDERS)

The format described below does not describe a standard export of purchase orders. This format was developed based on our experiences to enable a simple and easy-to-implement data exchange.

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MESSAGE STRUCTURE

order.myinventory.flat.template

Order					
1	Vendor Name	O	STRING, 60	Vendor Name	Starbucks
2	Vendor ID	M	NUMBER	Vendor Identification Number	1004
3	Order No.	M	STRING, 20	Unique number for this document, created and assigned by myinventory	B20020913
4	Order Date	M	DATE, 8	Date when the order was placed	20031118
5	Order Time	M	TIME, 8	Order time	12:05:00
Delivery Location					
6	Delivery Location ID	M	STRING, 60	Identify the delivery location as defined per vendor	
Order Position					
7	Position No.	M	NUMBER, 8	Position of this item in the order	
8	Item No.	M	STRING, 20	Item number	123456
9	Delivery Date	M	DATE, 8	Date of Delivery	20031120
10	Order Qty	M	NUMBER, 10	Ordered quantity in Order Units	5
11	QTY/Base Order Quantity Units	M	NUMBER, 10	Quantity of contained units within Order Unit	1
12	Price	O	NUMBER, 10	Price per Order Unit	20
13	Discount	O	NUMBER, 8	Discount	10
14	Information	O	STRING, 60	Add. information for this position	"Frozen"
15	Item Name	O	STRING, 60	Item name	"Test Article"
16	Order Unit	O	STRING, 60	Name of the order unit	"Case / 20kg"
17	Order Qty/Base Unit	O	NUMBER, 10	Not supported	20

- Catch Weight Items - what field denotes a catch weight item in the order? What is the requirement from the vendor?
- Split Item - how will a split item appear in the order?
The QTY/Base Order Quantity Units is used – see description in catalog.

PURCHASE ORDER RESPONSE/ ORDER CONFIRMATION

The format described below does not describe a standard import of order response. This format was developed based on our experiences to enable a simple and easy-to-implement data exchange.

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MESSAGE STRUCTURE

acknowledgment.myinventory.flat.template

Pos	Description	M/O	Type	Explanation	Example
Vendor					
1	Vendor ID	M	NUMBER	Vendor identification (e.g: GLN)	5012345000004
2	Vendor Name	O	STRING, 60	Name of the vendor	Meiranova
3	Order No.	M	STRING, 20	Unique number for this document, created and assigned by myinventory	B20020913

To be checked; can be enhanced;

INVOICE/CREDIT NOTE

The format described below does not describe a standard import of invoices. This format was developed based on our experiences to enable a simple and easy-to-implement data exchange.

Alternatively we recommend using EANCOM (EDI) which is based on the UN/EDIFACT (United Nations Electronic Data Interchange for Administration, Commerce and Transport). This comprises of an internationally agreed standards, directories and guidelines for the electronic interchange of data.

MESSAGE STRUCTURE

invoice.myinventory.flat.template

Pos	Description	M/O	Type	Explanation	Example
Vendor					
1	Vendor ID	M	NUMBER	Vendor identification (e.g: GLN)	5012345000004
2	Vendor Name	O	STRING, 60	Name of the vendor	Meiranova
Delivery Location					
3	Delivery Location ID	M	STRING, 60	Identify the delivery location as defined per vendor (e.g: GLN)	5012345000008
Invoice/Credit Note					
4	Document Name	M	STRING, 20	Invoice/Credit Note Document Name	
5	Date	M	DATE	Invoice/Credit Note Document Date	
6	Document Type	O	NUMBER	Type of invoice/credit note (1=Credit Note; 0=Invoice)	
Document Line Detail					
7	Line Identifier	M	NUMBER	Item line number in Invoice/Credit Note	
8	Purchase Order No.	O	STRING, 20	Reference to Purchase Order (PO No.)	
9	Item No. Ordered	O	STRING, 20	Not Supported	
10	Item No. Delivered	M	STRING, 20	Delivered Item Number	
11	QTY Ordered	O	NUMBER	Not Supported	
12	QTY Delivered	M	NUMBER	Delivered Quantity in Order Units	
13	QTY/Base Order Quantity Units	M	NUMBER	QTY of contained units within Order Unit	12
14	Price/Order Unit	M	NUMBER	Net Price per Order Unit.	100

15	Discount	O	NUMBER	Discount in %	0
16	Tax %	O	NUMBER	Tax in % (Note % sign must not be present)	12.5
17	Tax Amount	O	NUMBER	Tax in Amount	23.95
Item Detail					
18	Item Name	M	STRING, 60	Item name	
19	Item Info	O	STRING, 60	Not Supported	
20	Item Group	O	STRING, 60	Item Group of Item	
21	Order Unit	M	STRING, 60	Order Unit abbreviation	Case
22	Order Unit Info	O	STRING, 60	Full Order Unit Name; This is visible in myinventory and is created by the system if not provided by the Vendor.	Case à 12 1/1 Can
23	Base Order Quantity Unit	O	STRING, 60	Unit name contained in Order Unit	Can
24	Weight Item	M	NUMBER	Catch Weight Item flag; 1 = Item is a catch weight one; otherwise 0	0
25	Split Item	M	NUMBER	Not Supported	0
26	Barcode Order Unit	O	STRING; 20	Barcode for Order Unit	
27	Barcode Base Order Quantity Unit	O	STRING; 20	Barcode for Base Order Quantity Unit	