

Materialogic EDI Spec - 855

Overview

This document defines the subset of the ANSI Standard version 4010 EDI Purchase Order Acknowledgement Transaction Set (855), which is utilized by Materialogic's Third-Party-Logistics (3PL) operation.

This document is sent by Materialogic to Trading Partners to acknowledge receipt and acceptance (or rejection) of Requisitions for materials to be distributed by Materialogic on behalf of our clients.

Audience

This document is written and intended for Materialogic's EDI Trading Partners. It assumes a reasonable level of knowledge of EDI ANSI X12 transactional documents, and a basic familiarity with Materialogic's operations.

Specification

Overview

The overall layout of this document (i.e., sequence of segments) is defined as follows. Any standard segment not listed is not used by Materialogic at this time.

Header

ID	Segment Name	Loop	Repeat	Max Use	Usage
ISA	Interchange Control Header			1	Required
GS	Functional Group Header			1	Required
ST	Transaction Set Header			1	Required
BAK	Beginning Segment for Purchase Order Acknowledgement			1	Required
REF	Reference Identification			1	Required

Detail

ID	Segment Name	Loop	Repeat	Max Use	Usage
PO1	Baseline Item Data	PO1	1000	1	Required
PID	Product/Item Description	PO1		1	Optional
ACK	Line Item Acknowledgment	PO1		1	Optional

Footer

ID	Segment Name	Loop	Repeat	Max Use	Usage
CTT	Transaction Totals			1	Required
SE	Transaction Set Trailer			1	Optional
GE	Functional Group Trailer			1	Optional
IEA	Interchange Control Trailer			1	Optional

Segment Details

The details for each individual segment used in this document (i.e., meaning of individual elements) is defined below. Materialogic's required or supported values are listed in the Comments field. Any element not listed is not used by Materialogic at this time.

ISA - Interchange Control Header

To start and identify an interchange of zero or more functional groups and interchange-related control segments

Ref.	Element Name, Notes	Min/Max	Comments
ISA01	Authorization Information Qualifier Description: Code to identify the type of information in the Authorization Information	2/2	"00"
ISA02	Authorization Information Description: Information used for additional identification or authorization of the interchange sender or the data in the interchange; the type of information is set by the Authorization Information Qualifier (I01)	10/10	Blank
ISA03	Security Information Qualifier Description: Code to identify the type of information in the Security Information	2/2	"00"
ISA04	Security Information Description: This is used for identifying the security information about the interchange sender or the data in the interchange; the type of information is set by the Security Information Qualifier (I03)	10/10	Blank
ISA05	Interchange ID Qualifier Description: Qualifier to designate the system/method of code structure used to designate the sender or receiver ID element being qualified	2/2	Partner specified value.
ISA06	Interchange Sender ID Description: Identification code published by the sender for other parties to use as the receiver ID to route data to them; the sender always codes this value in the sender ID element.	15/15	Partner specified value.

ISA07	Interchange ID Qualifier Description: Qualifier to designate the system/method of code structure used to designate the sender or receiver ID element being qualified	2/2	Materialogic value: "ZZ"
ISA08	Interchange Receiver ID Description: Identification code published by the receiver of the data; When sending, it is used by the sender as their sending ID, thus other parties sending to them will use this as a receiving ID to route data to them	15/15	Materialogic Production value: "3149977342P" Test value: "3149977342T"
ISA09	Interchange Date Description: Date of the interchange	6/6	Format: YYMMDD
ISA10	Interchange Time Description: Time of the interchange	4/4	Format: HHMM
ISA11	Interchange Control Standards Identifier Description: Code to identify the agency responsible for the control standard used by the message that is enclosed by the interchange header and trailer	1/1	"U"
ISA12	Interchange Control Version Number Description: This version number covers the interchange control segments	5/5	"00401"
ISA13	Interchange Control Number Description: A control number assigned by the interchange sender	9/9	Required unique value.
ISA14	Acknowledgment Requested Description: Code sent by the sender to request an interchange acknowledgment (TA1)	1/1	"0"
ISA15	Usage Indicator Description: Code to indicate whether data enclosed by this interchange envelope is test, production or information	1/1	Production value: "P" Test value: "T"
ISA16	Component Element Separator Description: Type is not applicable; the component element separator is a delimiter and not a data element; this field provides the delimiter used to separate component data elements within a composite data structure; this value must be different than the data element separator and the segment terminator	1/1	">"

GS - Functional Group Header

To indicate the beginning of a functional group and to provide control information

Ref.	Element Name, Notes	Min/Max	Comments
GS01	Functional Identifier Code Description: Code identifying a group of application related transaction sets	2/2	"PR"
GS02	Application Sender's Code Description: Code identifying party sending transmission; codes agreed to by trading partners	2/15	Partner specified value.
GS03	Application Receiver's Code Description: Code identifying party receiving transmission. Codes agreed to by trading partners	2/15	Materialogic Production value: "3149977342P" Test value: "3149977342T"
GS04	Date Description: Date expressed as CCYYMMDD	8/8	Format: CCYYMMDD
GS05	Time Description: Time expressed in 24-hour clock time as HHMM.	4/4	Format: HHMM
GS06	Group Control Number Description: Assigned number originated and maintained by the sender	1/9	Required unique value.
GS07	Responsible Agency Code Description: Code used in conjunction with Data Element 480 to identify the issuer of the standard	1/2	"X"
GS08	Version / Release / Industry Identifier Code Description: Code indicating the version, release, sub release, and industry identifier of the EDI standard being used, including the GS and GE segments; positions 1-3 are the version number; positions 4-6 are the release and sub release, level of the version; and positions 7-12 are the industry or trade association identifiers (optionally assigned by user);	1/12	"004010"

ST - Transaction Set Header

To indicate the start of a transaction set and to assign a control number

Ref.	Element Name, Notes	Min/Max	Comments
------	---------------------	---------	----------

ST01	Transaction Set Identifier Code Description: Code uniquely identifying a Transaction Set	3/3	"855"
ST02	Transaction Set Control Number Description: Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set	4/9	Required unique value.

BAK - Beginning Segment for Purchase Order Acknowledgment

To indicate the beginning of the Purchase Order Acknowledgment Transaction Set and transmit identifying numbers and dates

Ref.	Element Name, Notes	Min/Max	Comments
BAK01	Transaction Set Purpose Code Description: Code identifying purpose of transaction set	2/2	"00" = Original
BAK02	Purchase Order Type Code Description: Code specifying the type of Purchase Order	2/2	"AK" = Acknowledge - With Detail and Change
BAK03	Purchase Order Number Description: Identifying number for Purchase Order assigned by the orderer/purchaser	1/22	Partner's purchase order number
BAK04	Date Description: Date expressed as CCYYMMDD	8/8	Format: CCYYMMDD

REF - Reference Identification

To specify identifying information

Ref.	Element Name, Notes	Min/Max	Comments
REF01	Reference Identification Qualifier Description: Code qualifying the Reference Identification	2/3	"IT" = Internal Customer Number. "ZZ" = Mutual Defined.
REF02	Reference Identification Description: Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	1/30	When REF01="IT", Materialogic's client Inventory Number. When REF01="ZZ", Materialogic's internal requisition number.

REF03	Description Description: A free-form description to clarify the related data elements and their content	1/80	When REF01="IT", Materialogic's client Inventory Name.
-------	--	------	--

PO1 - Baseline Item Data

To specify basic and most frequently used line item data

Ref.	Element Name, Notes	Min/Max	Comments
PO101	Assigned Identification Description: Alphanumeric characters assigned for differentiation within a transaction set	1/20	P.O. Line Number.
PO102	Quantity Ordered Description: Quantity ordered	1/15	
PO103	Unit or Basis for Measurement Code Description: Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken	2/2	"EA" = Each.
PO104	Unit Price Description: Price per unit of product, service, commodity, etc.	1/17	Format: D.CC (Dollars.Cents)
PO106	Product/Service ID Qualifier Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234)	2/2	"CN" = Materialogic item Control Number.
PO107	Product/Service ID Description: Identifying number for a product or service	1/48	
PO108	Product/Service ID Qualifier Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234)	2/2	"BP" = Buyer's part number.
PO109	Product/Service ID Description: Identifying number for a product or service	1/48	

PID - Product/Item Description

To describe a product or process in coded or free-form format

Ref.	Element Name, Notes	Min/Max	Comments
PID01	Item Description Type Description: Code indicating the format of a description	1/1	"F" = Free-form
PID05	Description Description: A free-form description to clarify the related data elements and their content	1/80	Free-form item description.

ACK - Line Item Acknowledgment

To acknowledge the ordered quantities and specify the ready date for a specific line item

Ref.	Element Name, Notes	Min/Max	Comments
ACK01	Line Item Status Code Description: Code specifying the action taken by the seller on a line item requested by the buyer	2/2	"IA" = Item Accepted, "IR" = Item Rejected.
ACK02	Quantity Description: Numeric value of quantity	1/15	
ACK03	Unit or Basis for Measurement Code Description: Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken	1/15	"EA" = Each.
ACK29	Industry Code Description: Code indicating a code from a specific industry code list	1/30	When ACK01="IR", reason for why item was rejected. Values to be shared with partner upon integration.

CTT - Transaction Totals

To transmit a hash total for a specific element in the transaction set

Ref.	Element Name, Notes	Min/Max	Comments
CTT01	Number of Line Items Description: Total number of line items in the transaction set	1/6	Number of PO1 segments in this transaction set.

SE - Transaction Set Trailer

To indicate the end of the transaction set and provide the count of the transmitted segments (including the beginning (ST) and ending (SE))

segments)

Ref.	Element Name, Notes	Min/Max	Comments
SE01	Number of Included Segments Description: Total number of segments included in a transaction set including ST and SE segments	1/10	
SE02	Transaction Set Control Number Description: Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set	4/9	

GE - Functional Group Trailer

To indicate the end of a functional group and to provide control information

Ref.	Element Name, Notes	Min/Max	Comments
GE01	Number of Transaction Sets Included Description: Total number of transaction sets included in the functional group or interchange (transmission) group terminated by the trailer containing this data element	1/6	
GE02	Group Control Number Description: Assigned number originated and maintained by the sender	1/9	

IEA - Interchange Control Trailer

To define the end of an interchange of zero or more functional groups and interchange-related control segments

Ref.	Element Name, Notes	Min/Max	Comments
IEA01	Number of Included Functional Groups Description: A count of the number of functional groups included in an interchange	1/5	
IEA02	Interchange Control Number Description: A control number assigned by the interchange sender	9/9	

Example Document

An example usage of this document is given below.

This example shows Materialogic's receipt of partner order number 055555556, received by Materialogic for Inventory 9999 as requisition number 3100001.000. Both line items on the inbound PO were accepted in their full quantities


```
ISA*00*          *00*          *ZZ*3149977342T      *ZZ*0123456789
*101117*1205*U*00401*011111113*0*T*>
GS*PR*3149977342T*0123456789*20101117*1205*022222224*X*004010
ST*855*03335
BAK*00*SA*05555556**20101116
REF*IT*9999*DEMO INVENTORY
REF*ZZ*3100001.000
PO1*1*1*EA*9.99**CN*WIDGET-101*BP*101WG
PID*F***Widget number 101
ACK*IA*1*EA
PO1*2*5*EA*19.99**CN*PART-17*BP*17WG
PID*F***Part 17
ACK*IA*5*EA
CTT*2
SE*12*03335
GE*1*022222224
IEA*1*011111113
```