

856 Ship Notice/Manifest Millbrook Distribution Services

X12/V4010/856: 856 Ship Notice/Manifest

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856 Ship Notice/Manifest

Functional Group=SH

This Draft Standard for Trial Use contains the format and establishes the data contents of the Ship Notice/Manifest Transaction Set (856) for use within the context of an Electronic Data Interchange (EDI) environment. The transaction set can be used to list the contents of a shipment of goods as well as additional information relating to the shipment, such as order information, product description, physical characteristics, type of packaging, marking, carrier information, and configuration of goods within the transportation equipment. The transaction set enables the sender to describe the contents and configuration of a shipment in various levels of detail and provides an ordered flexibility to convey information. The sender of this transaction is the organization responsible for detailing and communicating the contents of a shipment, or shipments, to one or more receivers of the transaction set. The receiver of this transaction set can be any organization having an interest in the contents of a shipment or information about the contents of a shipment.

Heading:

<u>Pos</u>	<u>Id</u>	<u>Segment Name</u>	<u>Req</u>	<u>Max Use</u>	<u>Repeat</u>	<u>Notes</u>
020	BSN	Beginning Segment for Ship Notice	M	1		

Detail:

<u>Pos</u>	<u>Id</u>	<u>Segment Name</u>	<u>Req</u>	<u>Max Use</u>	<u>Repeat</u>	<u>Notes</u>
LOOP ID - HL					200000	C2/010L
010	HL	Hierarchical Level	M	1		C2/010
110	TD1	Carrier Details (Quantity and Weight)	O	20		
120	TD5	Carrier Details (Routing Sequence/Transit Time)	O	12		
130	TD3	Carrier Details (Equipment)	O	12		
150	REF	Reference Identification	O	>1		
200	DTM	Date/Time Reference	O	10		
210	FOB	F.O.B. Related Instructions	O	1		
LOOP ID - N1					200	
220	N1	Name	O	1		
240	N3	Address Information	O	2		
250	N4	Geographic Location	O	1		
LOOP ID - HL					200000	C2/010L
010	HL	Hierarchical Level	M	1		C2/010
050	PRF	Purchase Order Reference	O	1		
LOOP ID - HL					200000	C2/010L
010	HL	Hierarchical Level	M	1		C2/010
190	MAN	Marks and Numbers	O	>1		
LOOP ID - HL					200000	C2/010L
010	HL	Hierarchical Level	M	1		CN2/010
020	LIN	Item Identification	O	1		
030	SN1	Item Detail (Shipment)	O	1		
060	PO4	Item Physical Details	O	1		
070	PID	Product/Item Description	O	200		

Summary:

<u>Pos</u>	<u>Id</u>	<u>Segment Name</u>	<u>Req</u>	<u>Max Use</u>	<u>Repeat</u>	<u>Notes</u>
010	CTT	Transaction Totals	O	1		N3/010

BSN Beginning Segment for Ship Notice

Pos: 020	Max: 1
Heading - Mandatory	
Loop: N/A	Elements: 7

To transmit identifying numbers, dates, and other basic data relating to the transaction set

Syntax:

1. C0706 - If BSN07 is present, then all of BSN06 are required

Semantics:

1. BSN03 is the date the shipment transaction set is created.
2. BSN04 is the time the shipment transaction set is created.
3. BSN06 is limited to shipment related codes.

Millbrook Required Elements:

BSN_02 Shipment Id
BSN_03 Create Date
BSN_04 Create Time

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
BSN01	353	Transaction Set Purpose Code Description: Code identifying purpose of transaction set All valid standard codes are used.	M	ID	2/2	Must use
BSN02	396	Shipment Identification Description: A unique control number assigned by the original shipper to identify a specific shipment	M	AN	2/30	Must use
BSN03	373	Date Description: Date expressed as CCYYMMDD	M	DT	8/8	Must use
BSN04	337	Time Description: Time expressed in 24-hour clock time as follows: HHMM, or HHMMSS, or HHMMSSD, or HHMMSSDD, where H = hours (00-23), M = minutes (00-59), S = integer seconds (00-59) and DD = decimal seconds; decimal seconds are expressed as follows: D = tenths (0-9) and DD = hundredths (00-99)	M	TM	4/8	Must use
BSN05	1005	Hierarchical Structure Code Description: Code indicating the hierarchical application structure of a transaction set that utilizes the HL segment to define the structure of the transaction set All valid standard codes are used.	O	ID	4/4	Used
BSN06	640	Transaction Type Code Description: Code specifying the type of transaction All valid standard codes are used.	X	ID	2/2	Used
BSN07	641	Status Reason Code Description: Code indicating the status reason All valid standard codes are used.	O	ID	3/3	Used

HL Hierarchical Level

Pos: 010	Max: 1
Detail - Mandatory	
Loop: HL	Elements: 4

To identify dependencies among and the content of hierarchically related groups of data segments

Millbrook Required Elements:

Shipment Level use "S" in HL_03

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
HL01	628	Hierarchical ID Number Description: A unique number assigned by the sender to identify a particular data segment in a hierarchical structure	M	AN	1/12	Must use
HL02	734	Hierarchical Parent ID Number Description: Identification number of the next higher hierarchical data segment that the data segment being described is subordinate to	O	AN	1/12	Used
HL03	735	Hierarchical Level Code Description: Code defining the characteristic of a level in a hierarchical structure All valid standard codes are used.	M	ID	1/2	Must use
HL04	736	Hierarchical Child Code Description: Code indicating if there are hierarchical child data segments subordinate to the level being described All valid standard codes are used.	O	ID	1/1	Used

TD1 Carrier Details (Quantity and Weight)

Pos: 110	Max: 20
Detail - Optional	
Loop: HL	Elements: 10

To specify the transportation details relative to commodity, weight, and quantity

Syntax:

1. C0102 - If TD101 is present, then all of TD102 are required
2. C0304 - If TD103 is present, then all of TD104 are required
3. C0607 - If TD106 is present, then all of TD107 are required
4. P0708 - If either TD107,TD108 is present, then all are required
5. P0910 - If either TD109,TD110 is present, then all are required

Millbrook Required Elements:

TD1_01 Package Code
 TD1_02 No of Cartons
 TD1_07 Weight
 TD1_08 Weight UOM
 TD1_09 Volume
 TD1_10 Volume UOM

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
TD101	103	Packaging Code Description: Code identifying the type of packaging; Part 1: Packaging Form, Part 2: Packaging Material; if the Data Element is used, then Part 1 is always required All valid standard codes are used.	O	AN	3/5	Used
TD102	80	Lading Quantity Description: Number of units (pieces) of the lading commodity	X	NO	1/7	Used
TD103	23	Commodity Code Qualifier Description: Code identifying the commodity coding system used for Commodity Code All valid standard codes are used.	O	ID	1/1	Used
TD104	22	Commodity Code Description: Code describing a commodity or group of commodities	X	AN	1/30	Used
TD105	79	Lading Description Description: Description of an item as required for rating and billing purposes	O	AN	1/50	Used
TD106	187	Weight Qualifier Description: Code defining the type of weight All valid standard codes are used.	O	ID	1/2	Used
TD107	81	Weight Description: Numeric value of weight	X	R	1/10	Used
TD108	355	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 All valid standard codes are used.	X	ID	2/2	Used
TD109	183	Volume Description: Value of volumetric measure	X	R	1/8	Used

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
TD110	355	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 All valid standard codes are used.	X	ID	2/2	Used

TD5 Carrier Details (Routing Sequence/Transit Time)

Pos: 120	Max: 12
Detail - Optional	
Loop: HL	Elements: 15

To specify the carrier and sequence of routing and provide transit time information

Syntax:

1. R0204050612 - At least one of TD502,TD504,TD505,TD506,TD512 is required
2. C0203 - If TD502 is present, then all of TD503 are required
3. C0708 - If TD507 is present, then all of TD508 are required
4. C1011 - If TD510 is present, then all of TD511 are required
5. C1312 - If TD513 is present, then all of TD512 are required
6. C1413 - If TD514 is present, then all of TD513 are required
7. C1512 - If TD515 is present, then all of TD512 are required

Semantics:

1. TD515 is the country where the service is to be performed.

Millbrook Required Elements:

TD5_02 Carrier Id Code
 TD5_03 Carrier
 TD5_05 Carrier Name
 TD5_06 Status

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
TD501	133	Routing Sequence Code Description: Code describing the relationship of a carrier to a specific shipment movement All valid standard codes are used.	O	ID	1/2	Used
TD502	66	Identification Code Qualifier Description: Code designating the system/method of code structure used for Identification Code (67) All valid standard codes are used.	X	ID	1/2	Used
TD503	67	Identification Code Description: Code identifying a party or other code	X	AN	2/80	Used
TD504	91	Transportation Method/Type Code Description: Code specifying the method or type of transportation for the shipment All valid standard codes are used.	X	ID	1/2	Used
TD505	387	Routing Description: Free-form description of the routing or requested routing for shipment, or the originating carrier's identity	X	AN	1/35	Used
TD506	368	Shipment/Order Status Code Description: Code indicating the status of an order or shipment or the disposition of any difference between the quantity ordered and the quantity shipped for a line item or transaction All valid standard codes are used.	X	ID	2/2	Used
TD507	309	Location Qualifier Description: Code identifying type of location	O	ID	1/2	Used

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
		All valid standard codes are used.				
TD508	310	Location Identifier Description: Code which identifies a specific location	X	AN	1/30	Used
TD509	731	Transit Direction Code Description: The point of origin and point of direction	O	ID	2/2	Used
		All valid standard codes are used.				
TD510	732	Transit Time Direction Qualifier Description: Code specifying the value of time used to measure the transit time	O	ID	2/2	Used
		All valid standard codes are used.				
TD511	733	Transit Time Description: The numeric amount of transit time	X	R	1/4	Used
TD512	284	Service Level Code Description: Code indicating the level of transportation service or the billing service offered by the transportation carrier	X	ID	2/2	Used
		All valid standard codes are used.				
TD513	284	Service Level Code Description: Code indicating the level of transportation service or the billing service offered by the transportation carrier	X	ID	2/2	Used
		All valid standard codes are used.				
TD514	284	Service Level Code Description: Code indicating the level of transportation service or the billing service offered by the transportation carrier	O	ID	2/2	Used
		All valid standard codes are used.				
TD515	26	Country Code Description: Code identifying the country	O	ID	2/3	Used

TD3 Carrier Details (Equipment)

Pos: 130	Max: 12
Detail - Optional	
Loop: HL	Elements: 10

To specify transportation details relating to the equipment used by the carrier

Syntax:

1. E0110 - Only one of TD301,TD310 may be presented
2. C0203 - If TD302 is present, then all of TD303 are required
3. C0405 - If TD304 is present, then all of TD305 are required
4. P0506 - If either TD305,TD306 is present, then all are required

Millbrook Required Elements:

TD3_01 Equipment Code

TD3_03 Trailer No

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
TD301	40	Equipment Description Code Description: Code identifying type of equipment used for shipment All valid standard codes are used.	X	ID	2/2	Used
TD302	206	Equipment Initial Description: Prefix or alphabetic part of an equipment unit's identifying number	O	AN	1/4	Used
TD303	207	Equipment Number Description: Sequencing or serial part of an equipment unit's identifying number (pure numeric form for equipment number is preferred)	X	AN	1/10	Used
TD304	187	Weight Qualifier Description: Code defining the type of weight All valid standard codes are used.	O	ID	1/2	Used
TD305	81	Weight Description: Numeric value of weight	X	R	1/10	Used
TD306	355	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 All valid standard codes are used.	X	ID	2/2	Used
TD307	102	Ownership Code Description: Code indicating the relationship of equipment to carrier or ownership of equipment All valid standard codes are used.	O	ID	1/1	Used
TD308	407	Seal Status Code Description: Code indicating condition of door seal upon arrival All valid standard codes are used.	O	ID	2/2	Used
TD309	225	Seal Number Description: Unique number on seal used to close a shipment	O	AN	2/15	Used
TD310	24	Equipment Type Description: Code identifying equipment type	X	ID	4/4	Used

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
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REF Reference Identification

Pos: 150	Max: >1
Detail - Optional	
Loop: HL	Elements: 4

To specify identifying information

Syntax:

1. R0203 - At least one of REF02,REF03 is required

Semantics:

1. REF04 contains data relating to the value cited in REF02.

Millbrook Required Elements:

If REF_01 = "BM" REF_02 = BOFL No

If REF_01 = "CN" REF_02 = Pro No

If REF_01 = "ZZ" REF_02 = Vendor Name

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
REF01	128	Reference Identification Qualifier Description: Code qualifying the Reference Identification All valid standard codes are used.	M	ID	2/3	Must use
REF02	127	Reference Identification Description: Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	X	AN	1/30	Used
REF03	352	Description Description: A free-form description to clarify the related data elements and their content	X	AN	1/80	Used
REF04	C040	Reference Identifier Description: To identify one or more reference numbers or identification numbers as specified by the Reference Qualifier	O	Comp		Used
	128	Reference Identification Qualifier Description: Code qualifying the Reference Identification All valid standard codes are used.	M	ID	2/3	Must use
	127	Reference Identification Description: Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	M	AN	1/30	Must use
	128	Reference Identification Qualifier Description: Code qualifying the Reference Identification All valid standard codes are used.	X	ID	2/3	Used
	127	Reference Identification Description: Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	X	AN	1/30	Used
	128	Reference Identification Qualifier Description: Code qualifying the Reference Identification All valid standard codes are used.	X	ID	2/3	Used

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
	127	Reference Identification Description: Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	X	AN	1/30	Used

DTM Date/Time Reference

Pos: 200	Max: 10
Detail - Optional	
Loop: HL	Elements: 6

To specify pertinent dates and times

Syntax:

1. R020305 - At least one of DTM02,DTM03,DTM05 is required
2. C0403 - If DTM04 is present, then all of DTM03 are required
3. P0506 - If either DTM05,DTM06 is present, then all are required

Millbrook Required Elements:

If DTM_01 = "067" DTM_02 = Delivery Date

If DTM_01 = "011" DTM_02 = Ship Date

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
DTM01	374	Date/Time Qualifier Description: Code specifying type of date or time, or both date and time All valid standard codes are used.	M	ID	3/3	Must use
DTM02	373	Date Description: Date expressed as CCYYMMDD	X	DT	8/8	Used
DTM03	337	Time Description: Time expressed in 24-hour clock time as follows: HHMM, or HHMMSS, or HHMMSSD, or HHMMSSDD, where H = hours (00-23), M = minutes (00-59), S = integer seconds (00-59) and DD = decimal seconds; decimal seconds are expressed as follows: D = tenths (0-9) and DD = hundredths (00-99)	X	TM	4/8	Used
DTM04	623	Time Code Description: Code identifying the time. In accordance with International Standards Organization standard 8601, time can be specified by a + or - and an indication in hours in relation to Universal Time Coordinate (UTC) time; since + is a restricted character, + and - are substituted by P and M in the codes that follow All valid standard codes are used.	O	ID	2/2	Used
DTM05	1250	Date Time Period Format Qualifier Description: Code indicating the date format, time format, or date and time format All valid standard codes are used.	X	ID	2/3	Used
DTM06	1251	Date Time Period Description: Expression of a date, a time, or range of dates, times or dates and times	X	AN	1/35	Used

FOB F.O.B. Related Instructions

Pos: 210	Max: 1
Detail - Optional	
Loop: HL	Elements: 9

To specify transportation instructions relating to shipment

Syntax:

1. C0302 - If FOB03 is present, then all of FOB02 are required
2. C0405 - If FOB04 is present, then all of FOB05 are required
3. C0706 - If FOB07 is present, then all of FOB06 are required
4. C0809 - If FOB08 is present, then all of FOB09 are required

Semantics:

1. FOB01 indicates which party will pay the carrier.
2. FOB02 is the code specifying transportation responsibility location.
3. FOB06 is the code specifying the title passage location.
4. FOB08 is the code specifying the point at which the risk of loss transfers. This may be different than the location specified in FOB02/FOB03 and FOB06/FOB07.

Millbrook Required Elements:

FOB_01 FOB

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
FOB01	146	Shipment Method of Payment Description: Code identifying payment terms for transportation charges All valid standard codes are used.	M	ID	2/2	Must use
FOB02	309	Location Qualifier Description: Code identifying type of location All valid standard codes are used.	X	ID	1/2	Used
FOB03	352	Description Description: A free-form description to clarify the related data elements and their content	O	AN	1/80	Used
FOB04	334	Transportation Terms Qualifier Code Description: Code identifying the source of the transportation terms All valid standard codes are used.	O	ID	2/2	Used
FOB05	335	Transportation Terms Code Description: Code identifying the trade terms which apply to the shipment transportation responsibility All valid standard codes are used.	X	ID	3/3	Used
FOB06	309	Location Qualifier Description: Code identifying type of location All valid standard codes are used.	X	ID	1/2	Used
FOB07	352	Description Description: A free-form description to clarify the related data elements and their content	O	AN	1/80	Used
FOB08	54	Risk of Loss Code Description: Code specifying where responsibility for risk of loss passes All valid standard codes are used.	O	ID	2/2	Used
FOB09	352	Description	X	AN	1/80	Used

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
		Description: A free-form description to clarify the related data elements and their content				

N1 Name

Pos: 220	Max: 1
Detail - Optional	
Loop: N1	Elements: 6

To identify a party by type of organization, name, and code

Syntax:

1. R0203 - At least one of N102,N103 is required
2. P0304 - If either N103,N104 is present, then all are required

Millbrook Required Elements:

If N1_01 = "SF" then N1_02 = Ship From Name

N1_04 = Ship From Duns4

If N1_01 = "ST" then N1_02 = Ship to Name

N1_04 = Ship to Duns+4

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
N101	98	Entity Identifier Code Description: Code identifying an organizational entity, a physical location, property or an individual All valid standard codes are used.	M	ID	2/3	Must use
N102	93	Name Description: Free-form name	X	AN	1/60	Used
N103	66	Identification Code Qualifier Description: Code designating the system/method of code structure used for Identification Code (67) All valid standard codes are used.	X	ID	1/2	Used
N104	67	Identification Code Description: Code identifying a party or other code	X	AN	2/80	Used
N105	706	Entity Relationship Code Description: Code describing entity relationship All valid standard codes are used.	O	ID	2/2	Used
N106	98	Entity Identifier Code Description: Code identifying an organizational entity, a physical location, property or an individual All valid standard codes are used.	O	ID	2/3	Used

N3 Address Information

Pos: 240	Max: 2
Detail - Optional	
Loop: N1	Elements: 2

To specify the location of the named party

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
N301	166	Address Information Description: Address information	M	AN	1/55	Must use
N302	166	Address Information Description: Address information	O	AN	1/55	Used

N4 Geographic Location

Pos: 250	Max: 1
Detail - Optional	
Loop: N1	Elements: 6

To specify the geographic place of the named party

Syntax:

1. C0605 - If N406 is present, then all of N405 are required

Millbrook Required Elements:

*If N1_01 = "SF" then N4_03 = Zip
N4_01 = City
N4_02 = State*

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
N401	19	City Name Description: Free-form text for city name	O	AN	2/30	Used
N402	156	State or Province Code Description: Code (Standard State/Province) as defined by appropriate government agency	O	ID	2/2	Used
N403	116	Postal Code Description: Code defining international postal zone code excluding punctuation and blanks (zip code for United States)	O	ID	3/15	Used
N404	26	Country Code Description: Code identifying the country	O	ID	2/3	Used
N405	309	Location Qualifier Description: Code identifying type of location All valid standard codes are used.	X	ID	1/2	Used
N406	310	Location Identifier Description: Code which identifies a specific location	O	AN	1/30	Used

HL Hierarchical Level

Pos: 010	Max: 1
Detail - Mandatory	
Loop: HL	Elements: 4

To identify dependencies among and the content of hierarchically related groups of data segments

Millbrook Required Elements:

Order Level HL_03 = "O"

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
HL01	628	Hierarchical ID Number Description: A unique number assigned by the sender to identify a particular data segment in a hierarchical structure	M	AN	1/12	Must use
HL02	734	Hierarchical Parent ID Number Description: Identification number of the next higher hierarchical data segment that the data segment being described is subordinate to	O	AN	1/12	Used
HL03	735	Hierarchical Level Code Description: Code defining the characteristic of a level in a hierarchical structure All valid standard codes are used.	M	ID	1/2	Must use
HL04	736	Hierarchical Child Code Description: Code indicating if there are hierarchical child data segments subordinate to the level being described All valid standard codes are used.	O	ID	1/1	Used

PRF Purchase Order Reference

Pos: 050	Max: 1
Detail - Optional	
Loop: HL	Elements: 7

To provide reference to a specific purchase order

Semantics:

1. PRF04 is the date assigned by the purchaser to purchase order.

Millbrook Required Elements:

PRF_01 = PO no
PRF_04 = PO Date

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
PRF01	324	Purchase Order Number Description: Identifying number for Purchase Order assigned by the orderer/purchaser	M	AN	1/22	Must use
PRF02	328	Release Number Description: Number identifying a release against a Purchase Order previously placed by the parties involved in the transaction	O	AN	1/30	Used
PRF03	327	Change Order Sequence Number Description: Number assigned by the orderer identifying a specific change or revision to a previously transmitted transaction set	O	AN	1/8	Used
PRF04	373	Date Description: Date expressed as CCYYMMDD	O	DT	8/8	Used
PRF05	350	Assigned Identification Description: Alphanumeric characters assigned for differentiation within a transaction set	O	AN	1/20	Used
PRF06	367	Contract Number Description: Contract number	O	AN	1/30	Used
PRF07	92	Purchase Order Type Code Description: Code specifying the type of Purchase Order All valid standard codes are used.	O	ID	2/2	Used

HL Hierarchical Level

Pos: 010	Max: 1
Detail - Mandatory	
Loop: HL	Elements: 4

To identify dependencies among and the content of hierarchically related groups of data segments

Millbrook Required Elements:

Tare Level HL_03 = "T"

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
HL01	628	Hierarchical ID Number Description: A unique number assigned by the sender to identify a particular data segment in a hierarchical structure	M	AN	1/12	Must use
HL02	734	Hierarchical Parent ID Number Description: Identification number of the next higher hierarchical data segment that the data segment being described is subordinate to	O	AN	1/12	Used
HL03	735	Hierarchical Level Code Description: Code defining the characteristic of a level in a hierarchical structure All valid standard codes are used.	M	ID	1/2	Must use
HL04	736	Hierarchical Child Code Description: Code indicating if there are hierarchical child data segments subordinate to the level being described All valid standard codes are used.	O	ID	1/1	Used

MAN Marks and Numbers

Pos: 190	Max: >1
Detail - Optional	
Loop: HL	Elements: 6

To indicate identifying marks and numbers for shipping containers

Syntax:

1. P0405 - If either MAN04,MAN05 is present, then all are required
2. C0605 - If MAN06 is present, then all of MAN05 are required

Semantics:

1. MAN01/MAN02 and MAN04/MAN05 may be used to identify two different marks and numbers assigned to the same physical container.
2. When both MAN02 and MAN03 are used, MAN02 is the starting number of a sequential range and MAN03 is the ending number of that range.
3. When both MAN05 and MAN06 are used, MAN05 is the starting number of a sequential range, and MAN06 is the ending number of that range.

Millbrook Required Elements:

MAN_02 = Tare MAN

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
MAN01	88	Marks and Numbers Qualifier Description: Code specifying the application or source of Marks and Numbers (87) All valid standard codes are used.	M	ID	1/2	Must use
MAN02	87	Marks and Numbers Description: Marks and numbers used to identify a shipment or parts of a shipment	M	AN	1/48	Must use
MAN03	87	Marks and Numbers Description: Marks and numbers used to identify a shipment or parts of a shipment	O	AN	1/48	Used
MAN04	88	Marks and Numbers Qualifier Description: Code specifying the application or source of Marks and Numbers (87) All valid standard codes are used.	X	ID	1/2	Used
MAN05	87	Marks and Numbers Description: Marks and numbers used to identify a shipment or parts of a shipment	X	AN	1/48	Used
MAN06	87	Marks and Numbers Description: Marks and numbers used to identify a shipment or parts of a shipment	O	AN	1/48	Used

HL Hierarchical Level

Pos: 010	Max: 1
Detail - Mandatory	
Loop: HL	Elements: 4

To identify dependencies among and the content of hierarchically related groups of data segments

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
HL01	628	Hierarchical ID Number Description: A unique number assigned by the sender to identify a particular data segment in a hierarchical structure	M	AN	1/12	Must use
HL02	734	Hierarchical Parent ID Number Description: Identification number of the next higher hierarchical data segment that the data segment being described is subordinate to	O	AN	1/12	Used
HL03	735	Hierarchical Level Code Description: Code defining the characteristic of a level in a hierarchical structure All valid standard codes are used.	M	ID	1/2	Must use
HL04	736	Hierarchical Child Code Description: Code indicating if there are hierarchical child data segments subordinate to the level being described All valid standard codes are used.	O	ID	1/1	Used

LIN Item Identification

Pos: 020	Max: 1
Detail - Optional	
Loop: HL	Elements: 31

To specify basic item identification data

Syntax:

1. P0405 - If either LIN04,LIN05 is present, then all are required
2. P0607 - If either LIN06,LIN07 is present, then all are required
3. P0809 - If either LIN08,LIN09 is present, then all are required
4. P1011 - If either LIN10,LIN11 is present, then all are required
5. P1213 - If either LIN12,LIN13 is present, then all are required
6. P1415 - If either LIN14,LIN15 is present, then all are required
7. P1617 - If either LIN16,LIN17 is present, then all are required
8. P1819 - If either LIN18,LIN19 is present, then all are required
9. P2021 - If either LIN20,LIN21 is present, then all are required
10. P2223 - If either LIN22,LIN23 is present, then all are required
11. P2425 - If either LIN24,LIN25 is present, then all are required
12. P2627 - If either LIN26,LIN27 is present, then all are required
13. P2829 - If either LIN28,LIN29 is present, then all are required
14. P3031 - If either LIN30,LIN31 is present, then all are required

Semantics:

1. LIN01 is the line item identification

Millbrook Required Elements:

LIN_03 = UPC

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
LIN01	350	Assigned Identification Description: Alphanumeric characters assigned for differentiation within a transaction set	O	AN	1/20	Used
LIN02	235	Product/Service ID Qualifier Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234) All valid standard codes are used.	M	ID	2/2	Must use
LIN03	234	Product/Service ID Description: Identifying number for a product or service	M	AN	1/48	Must use
LIN04	235	Product/Service ID Qualifier Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234) All valid standard codes are used.	X	ID	2/2	Used
LIN05	234	Product/Service ID Description: Identifying number for a product or service	X	AN	1/48	Used
LIN06	235	Product/Service ID Qualifier Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234) All valid standard codes are used.	X	ID	2/2	Used
LIN07	234	Product/Service ID Description: Identifying number for a	X	AN	1/48	Used

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
LIN08	235	product or service Product/Service ID Qualifier Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234) All valid standard codes are used.	X	ID	2/2	Used
LIN09	234	Product/Service ID Description: Identifying number for a product or service	X	AN	1/48	Used
LIN10	235	Product/Service ID Qualifier Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234) All valid standard codes are used.	X	ID	2/2	Used
LIN11	234	Product/Service ID Description: Identifying number for a product or service	X	AN	1/48	Used
LIN12	235	Product/Service ID Qualifier Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234) All valid standard codes are used.	X	ID	2/2	Used
LIN13	234	Product/Service ID Description: Identifying number for a product or service	X	AN	1/48	Used
LIN14	235	Product/Service ID Qualifier Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234) All valid standard codes are used.	X	ID	2/2	Used
LIN15	234	Product/Service ID Description: Identifying number for a product or service	X	AN	1/48	Used
LIN16	235	Product/Service ID Qualifier Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234) All valid standard codes are used.	X	ID	2/2	Used
LIN17	234	Product/Service ID Description: Identifying number for a product or service	X	AN	1/48	Used
LIN18	235	Product/Service ID Qualifier Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234) All valid standard codes are used.	X	ID	2/2	Used
LIN19	234	Product/Service ID Description: Identifying number for a product or service	X	AN	1/48	Used
LIN20	235	Product/Service ID Qualifier Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234) All valid standard codes are used.	X	ID	2/2	Used
LIN21	234	Product/Service ID Description: Identifying number for a product or service	X	AN	1/48	Used
LIN22	235	Product/Service ID Qualifier	X	ID	2/2	Used

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
		Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234) All valid standard codes are used.				
LIN23	234	Product/Service ID Description: Identifying number for a product or service	X	AN	1/48	Used
LIN24	235	Product/Service ID Qualifier Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234) All valid standard codes are used.	X	ID	2/2	Used
LIN25	234	Product/Service ID Description: Identifying number for a product or service	X	AN	1/48	Used
LIN26	235	Product/Service ID Qualifier Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234) All valid standard codes are used.	X	ID	2/2	Used
LIN27	234	Product/Service ID Description: Identifying number for a product or service	X	AN	1/48	Used
LIN28	235	Product/Service ID Qualifier Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234) All valid standard codes are used.	X	ID	2/2	Used
LIN29	234	Product/Service ID Description: Identifying number for a product or service	X	AN	1/48	Used
LIN30	235	Product/Service ID Qualifier Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234) All valid standard codes are used.	X	ID	2/2	Used
LIN31	234	Product/Service ID Description: Identifying number for a product or service	X	AN	1/48	Used

SN1 Item Detail (Shipment)

Pos: 030	Max: 1
Detail - Optional	
Loop: HL	Elements: 8

To specify line-item detail relative to shipment

Syntax:

1. P0506 - If either SN105,SN106 is present, then all are required

Semantics:

1. SN101 is the ship notice line-item identification.

Millbrook Required Elements:

SN1_02 = Qty Shipped
 SN1_03 = UOM
 SN1_05 = Qty Ordered

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
SN101	350	Assigned Identification Description: Alphanumeric characters assigned for differentiation within a transaction set	O	AN	1/20	Used
SN102	382	Number of Units Shipped Description: Numeric value of units shipped in manufacturer's shipping units for a line item or transaction set	M	R	1/10	Must use
SN103	355	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 All valid standard codes are used.	M	ID	2/2	Must use
SN104	646	Quantity Shipped to Date Description: Number of units shipped to date	O	R	1/15	Used
SN105	330	Quantity Ordered Description: Quantity ordered	X	R	1/15	Used
SN106	355	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 All valid standard codes are used.	X	ID	2/2	Used
SN107	728	Returnable Container Load Make-Up Code Description: Code identifying the load make-up of the returnable containers in the shipment All valid standard codes are used.	O	ID	1/2	Used
SN108	668	Line Item Status Code Description: Code specifying the action taken by the seller on a line item requested by the buyer All valid standard codes are used.	O	ID	2/2	Used

PO4 Item Physical Details

Pos: 060	Max: 1
Detail - Optional	
Loop: HL	Elements: 18

To specify the physical qualities, packaging, weights, and dimensions relating to the item

Syntax:

1. P0203 - If either PO402,PO403 is present, then all are required
2. C0506 - If PO405 is present, then all of PO406 are required
3. P0607 - If either PO406,PO407 is present, then all are required
4. P0809 - If either PO408,PO409 is present, then all are required
5. C1013 - If PO410 is present, then all of PO413 are required
6. C1113 - If PO411 is present, then all of PO413 are required
7. C1213 - If PO412 is present, then all of PO413 are required
8. L13101112 - If PO413 is present, then at least one of PO410,PO411,PO412 is required
9. C1716 - If PO417 is present, then all of PO416 are required
10. C1804 - If PO418 is present, then all of PO404 are required

Semantics:

1. PO415 is used to indicate the relative layer of this package or range of packages within the layers of packaging. Relative Position 1 (value R1) is the innermost package.
2. PO416 is the package identifier or the beginning package identifier in a range of identifiers.
3. PO417 is the ending package identifier in a range of identifiers.
4. PO418 is the number of packages in this layer.

Millbrook Required Elements:

PO4_01 = Pack size
PO4_14 = Inner Pack

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
PO401	356	Pack Description: The number of inner containers, or number of eaches if there are no inner containers, per outer container	O	N0	1/6	Used
PO402	357	Size Description: Size of supplier units in pack	X	R	1/8	Used
PO403	355	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 All valid standard codes are used.	X	ID	2/2	Used
PO404	103	Packaging Code Description: Code identifying the type of packaging; Part 1: Packaging Form, Part 2: Packaging Material; if the Data Element is used, then Part 1 is always required All valid standard codes are used.	X	AN	3/5	Used
PO405	187	Weight Qualifier Description: Code defining the type of weight All valid standard codes are used.	O	ID	1/2	Used
PO406	384	Gross Weight per Pack Description: Numeric value of gross weight per pack	X	R	1/9	Used
PO407	355	Unit or Basis for Measurement Code Description: Code specifying the units in	X	ID	2/2	Used

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
		which a value is being expressed, or manner in which a measurement has been taken All valid standard codes are used.				
PO408	385	Gross Volume per Pack Description: Numeric value of gross volume per pack	X	R	1/9	Used
PO409	355	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 All valid standard codes are used.	X	ID	2/2	Used
PO410	82	Length Description: Largest horizontal dimension of an object measured when the object is in the upright position	X	R	1/8	Used
PO411	189	Width Description: Shorter measurement of the two horizontal dimensions measured with the object in the upright position	X	R	1/8	Used
PO412	65	Height Description: Vertical dimension of an object measured when the object is in the upright position	X	R	1/8	Used
PO413	355	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 All valid standard codes are used.	X	ID	2/2	Used
PO414	810	Inner Pack Description: The number of eaches per inner container	O	N0	1/6	Used
PO415	752	Surface/Layer/Position Code Description: Code indicating the product surface, layer or position that is being described All valid standard codes are used.	O	ID	2/2	Used
PO416	350	Assigned Identification Description: Alphanumeric characters assigned for differentiation within a transaction set	X	AN	1/20	Used
PO417	350	Assigned Identification Description: Alphanumeric characters assigned for differentiation within a transaction set	O	AN	1/20	Used
PO418	1470	Number Description: A generic number	O	N0	1/9	Used

PID Product/Item Description

Pos: 070	Max: 200
Detail - Optional	
Loop: HL	Elements: 9

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

Syntax:

1. C0403 - If PID04 is present, then all of PID03 are required
2. R0405 - At least one of PID04,PID05 is required
3. C0703 - If PID07 is present, then all of PID03 are required
4. C0804 - If PID08 is present, then all of PID04 are required
5. C0905 - If PID09 is present, then all of PID05 are required

Semantics:

1. Use PID03 to indicate the organization that publishes the code list being referred to.
2. PID04 should be used for industry-specific product description codes.
3. PID08 describes the physical characteristics of the product identified in PID04. A "Y" indicates that the specified attribute applies to this item; an "N" indicates it does not apply. Any other value is indeterminate.
4. PID09 is used to identify the language being used in PID05.

Millbrook Required Elements:

PID_05 = Item Description

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
PID01	349	Item Description Type Description: Code indicating the format of a description All valid standard codes are used.	M	ID	1/1	Must use
PID02	750	Product/Process Characteristic Code Description: Code identifying the general class of a product or process characteristic All valid standard codes are used.	O	ID	2/3	Used
PID03	559	Agency Qualifier Code Description: Code identifying the agency assigning the code values All valid standard codes are used.	X	ID	2/2	Used
PID04	751	Product Description Code Description: A code from an industry code list which provides specific data about a product characteristic	X	AN	1/12	Used
PID05	352	Description Description: A free-form description to clarify the related data elements and their content	X	AN	1/80	Used
PID06	752	Surface/Layer/Position Code Description: Code indicating the product surface, layer or position that is being described All valid standard codes are used.	O	ID	2/2	Used
PID07	822	Source Subqualifier Description: A reference that indicates the table or text maintained by the Source Qualifier	O	AN	1/15	Used
PID08	1073	Yes/No Condition or Response Code Description: Code indicating a Yes or No condition or response All valid standard codes are used.	O	ID	1/1	Used

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
PID09	819	Language Code Description: Code designating the language used in text, from a standard code list maintained by the International Standards Organization (ISO 639)	O	ID	2/3	Used

CTT Transaction Totals

Pos: 010	Max: 1
Summary - Optional	
Loop: N/A	Elements: 7

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

Syntax:

1. P0304 - If either CTT03,CTT04 is present, then all are required
2. P0506 - If either CTT05,CTT06 is present, then all are required

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
CTT01	354	Number of Line Items Description: Total number of line items in the transaction set	M	NO	1/6	Must use
CTT02	347	Hash Total Description: Sum of values of the specified data element. All values in the data element will be summed without regard to decimal points (explicit or implicit) or signs. Truncation will occur on the left most digits if the sum is greater than the maximum size of the hash total of the data element. Example: -.0018 First occurrence of value being hashed. .18 Second occurrence of value being hashed. 1.8 Third occurrence of value being hashed. 18.01 Fourth occurrence of value being hashed. ----- 1855 Hash total prior to truncation. 855 Hash total after truncation to three-digit field.	O	R	1/10	Used
CTT03	81	Weight Description: Numeric value of weight	X	R	1/10	Used
CTT04	355	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 All valid standard codes are used.	X	ID	2/2	Used
CTT05	183	Volume Description: Value of volumetric measure	X	R	1/8	Used
CTT06	355	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 All valid standard codes are used.	X	ID	2/2	Used
CTT07	352	Description Description: A free-form description to clarify the related data elements and their content	O	AN	1/80	Used

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