Customer 856 Ship Notice/Manifest

Tech Data Implementation Guideline

Version: 4010   Final

Created: 7/23/2013
Modified: 1/23/2014
Notes: **Hierarchial format shipment, order, pack, and item**

Guideline for EDI Usage
Based on ANSI X12 4010
and CompTIA Recommendations

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856

Ship Notice/Manifest

Functional Group=SH

Purpose: 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:

Pos	Id	Segment Name	Req	Max Use	Repeat	Notes	Usage
010	ST	Transaction Set Header	M	1			Must use
020	BSN	Beginning Segment for Ship Notice	M	1			Must use

Detail:

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

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Summary:

Pos	Id	Segment Name	Req	Max Use	Repeat	Notes	Usage
010	CTT	Transaction Totals	O	1		N3/010	Used
020	SE	Transaction Set Trailer	M	1			Must use

Notes:

3/010   Number of line items (CTT01) is the accumulation of the number of HL segments. If used, hash total (CTT02) is the sum of the value of units shipped (SN102) for each SN1 segment.

Comments:

2/010L   The HL segment is the only mandatory segment within the HL loop, and by itself, the HL segment has no meaning.
2/010   The HL segment is the only mandatory segment within the HL loop, and by itself, the HL segment has no meaning.
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ST Transaction Set Header

Pos: 010	**Max: 1**
Heading - Mandatory	
Loop: N/A	**Elements: 2**

User Option (Usage): Must use
Purpose: To indicate the start of a transaction set and to assign a control number

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage	Rep
ST01	143	**Transaction Set Identifier Code**	M	ID	3/3	Must use	1

Description: Code uniquely identifying a
Transaction Set

CodeList Summary (Total Codes: 298, Included: 1)

Code	Name
856	Ship Notice/Manifest

Ref	Id	Element Name	Req	Type	Min/Max	Usage	Rep
ST02	329	**Transaction Set Control Number**	M	AN	4/9	Must use	1

Description: Identifying control number that
must be unique within the transaction set
functional group assigned by the originator
for a transaction set

Semantics:

1. The transaction set identifier (ST01) used by the translation routines of the interchange partners to select the appropriate transaction set definition (e.g., 810 selects the Invoice Transaction Set).

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BSN

Beginning Segment for Ship Notice

Pos: 020 **Max: 1**
Heading - Mandatory
Loop: N/A **Elements: 4**

User Option (Usage): Must use
Purpose: To transmit identifying numbers, dates, and other basic data relating to the transaction set

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage	Rep
BSN01	353	**Transaction Set Purpose Code**	M	ID	2/2	Must use	1

Description: Code identifying purpose of transaction set

CodeList Summary (Total Codes: 64, Included: 2)

Code	Name
00	Original
18	Reissue

Ref	Id	Element Name	Req	Type	Min/Max	Usage	Rep
BSN02	396	**Shipment Identification**	M	AN	2/30	Must use	1

Description: A unique control number assigned by the original shipper to identify a specific shipment

Ref	Id	Element Name	Req	Type	Min/Max	Usage	Rep
BSN03	373	**Date**	M	DT	8/8	Must use	1

Description: Date expressed as CCYYMMDD

Ref	Id	Element Name	Req	Type	Min/Max	Usage	Rep
BSN04	337	**Time**	M	TM	4/8	Must use	1

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)

Syntax Rules:

1. C0706 - If BSN07 is present, then BSN06 is 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.

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HL — Hierarchical Level - Shipment

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

User Option (Usage): Must use
Purpose: To identify dependencies among and the content of hierarchically related groups of data segments

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage	Rep
HL01	628	**Hierarchical ID Number**	M	AN	1/12	Must use	1
		Description: A unique number assigned by the sender to identify a particular data segment in a hierarchical structure					
HL02	734	**Hierarchical Parent ID Number**	O	AN	1/12	Used	1
		Description: Identification number of the next higher hierarchical data segment that the data segment being described is subordinate to					
HL03	735	**Hierarchical Level Code**	M	ID	1/2	Must use	1
		Description: Code defining the characteristic of a level in a hierarchical structure					

CodeList Summary (Total Codes: 170, Included: 1)

Code	Name
S	Shipment

Ref	Id	Element Name	Req	Type	Min/Max	Usage	Rep
HL04	736	**Hierarchical Child Code**	O	ID	1/1	Used	1
		Description: Code indicating if there are hierarchical child data segments subordinate to the level being described					

CodeList Summary (Total Codes: 2, Included: 1)

Code	Name
1	Additional Subordinate HL Data Segment in This Hierarchical Structure.

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TD1

Carrier Details (Quantity and Weight)

Pos: 110	**Max: 20**
Detail - Optional	
Loop: HL	**Elements: 5**

User Option (Usage): Used
Purpose: To specify the transportation details relative to commodity, weight, and quantity

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage	Rep
TD101	103	**Packaging Code**	O	AN	3/5	Used	1

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

CodeList Summary (Total Codes: 203, Included: 4)

Code	Name
25	Corrugated or Solid
94	Wood
BOX	Box
PLT	Pallet

Ref	Id	Element Name	Req	Type	Min/Max	Usage	Rep
TD102	80	**Lading Quantity**	C	N0	1/7	Used	1

Description: Number of units (pieces) of the lading commodity

Ref	Id	Element Name	Req	Type	Min/Max	Usage	Rep
TD106	187	**Weight Qualifier**	O	ID	1/2	Used	1

Description: Code defining the type of weight

CodeList Summary (Total Codes: 51, Included: 1)

Code	Name
G	Gross Weight

Ref	Id	Element Name	Req	Type	Min/Max	Usage	Rep
TD107	81	**Weight**	C	R	1/10	Used	1

Description: Numeric value of weight

Ref	Id	Element Name	Req	Type	Min/Max	Usage	Rep
TD108	355	**Unit or Basis for Measurement Code**	C	ID	2/2	Used	1

Description: Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken

CodeList Summary (Total Codes: 794, Included: 1)

Code	Name
LB	Pound

Syntax Rules:

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

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TD5 Carrier Details (Routing Sequence/Transit Time)

Pos: 120   **Max: 12**
Detail - Optional
Loop: HL   **Elements: 6**

User Option (Usage): Used
Purpose: To specify the carrier and sequence of routing and provide transit time information

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage	Rep
TD502	66	**Identification Code Qualifier**	C	ID	1/2	Used	1

Description: Code designating the system/method of code structure used for Identification Code (67)

CodeList Summary (Total Codes: 215, Included: 2)

Code	Name
2	Standard Carrier Alpha Code (SCAC)
91	Assigned by Seller or Seller's Agent

Ref	Id	Element Name	Req	Type	Min/Max	Usage	Rep
TD503	67	**Identification Code**	C	AN	2/80	Used	1

Description: Code identifying a party or other code
User: Tech Data's shipping code or SCAC-like code

Ref	Id	Element Name	Req	Type	Min/Max	Usage	Rep
TD504	91	**Transportation Method/Type Code**	C	ID	1/2	Used	1

Description: Code specifying the method or type of transportation for the shipment

CodeList Summary (Total Codes: 71, Included: 3)

Code	Name
A	Air
H	Customer Pickup
M	Motor (Common Carrier)

Ref	Id	Element Name	Req	Type	Min/Max	Usage	Rep
TD505	387	**Routing**	C	AN	1/35	Used	1

Description: Free-form description of the routing or requested routing for shipment, or the originating carrier's identity

Ref	Id	Element Name	Req	Type	Min/Max	Usage	Rep
TD507	309	**Location Qualifier**	O	ID	1/2	Used	1

Description: Code identifying type of location

CodeList Summary (Total Codes: 172, Included: 2)

Code	Name
DE	Destination (Shipping)
OR	Origin (Shipping Point)

Ref	Id	Element Name	Req	Type	Min/Max	Usage	Rep
TD508	310	**Location Identifier**	C	AN	1/30	Used	1

Description: Code which identifies a specific location
User: Tech Data's warehouse code

Syntax Rules:

1. R0204050612 - At least one of TD502, TD504, TD505, TD506 or TD512 is required.
2. C0203 - If TD502 is present, then TD503 is required.
3. C0708 - If TD507 is present, then TD508 is required.
4. C1011 - If TD510 is present, then TD511 is required.

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5. C1312 - If TD513 is present, then TD512 is required.
6. C1413 - If TD514 is present, then TD513 is required.
7. C1512 - If TD515 is present, then TD512 is required.

Semantics:

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

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REF **Reference Identification**

Pos: 150	**Max: >1**
Detail - Optional	
Loop: HL	**Elements: 2**

User Option (Usage): Used
Purpose: To specify identifying information

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage	Rep
REF01	128	**Reference Identification Qualifier**	M	ID	2/3	Must use	1

Description: Code qualifying the Reference Identification

CodeList Summary (Total Codes: 1503, Included: 2)

Code	Name
BM	Bill of Lading Number
CN	Carrier's Reference Number (PRO/Invoice)

Ref	Id	Element Name	Req	Type	Min/Max	Usage	Rep
REF02	127	**Reference Identification**	C	AN	1/30	Used	1

Description: Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier

Syntax Rules:

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

Semantics:

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

User:

This segment will be sent only when a bill of lading exists for a large shipment OR when a small package carrier is used and the shipment consists of a single container.

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DTM

Date/Time Reference

<table>
<tr><td>Pos: 200</td><td>Max: 10</td></tr>
<tr><td colspan="2">Detail - Optional</td></tr>
<tr><td>Loop: HL</td><td>Elements: 2</td></tr>
</table>

User Option (Usage): Used
Purpose: To specify pertinent dates and times

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage	Rep
DTM01	374	**Date/Time Qualifier**	M	ID	3/3	Must use	1

Description: Code specifying type of date or time, or both date and time

CodeList Summary (Total Codes: 1112, Included: 1)

Code	Name
011	Shipped

Ref	Id	Element Name	Req	Type	Min/Max	Usage	Rep
DTM02	373	**Date**	C	DT	8/8	Used	1

Description: Date expressed as CCYYMMDD

Syntax Rules:

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

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N1 Name

User Option (Usage): Used
Purpose: To identify a party by type of organization, name, and code

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage	Rep
N101	98	**Entity Identifier Code**	M	ID	2/3	Must use	1

Description: Code identifying an organizational entity, a physical location, property or an individual

CodeList Summary (Total Codes: 1312, Included: 3)

Code	Name
BY	Buying Party (Purchaser)
SF	Ship From
ST	Ship To

Ref	Id	Element Name	Req	Type	Min/Max	Usage	Rep
N102	93	**Name**	C	AN	1/60	Used	1

Description: Free-form name

Ref	Id	Element Name	Req	Type	Min/Max	Usage	Rep
N103	66	**Identification Code Qualifier**	C	ID	1/2	Used	1

Description: Code designating the system/method of code structure used for Identification Code (67)

CodeList Summary (Total Codes: 215, Included: 1)

Code	Name
94	Code assigned by the organization that is the ultimate destination of the transaction set

Ref	Id	Element Name	Req	Type	Min/Max	Usage	Rep
N104	67	**Identification Code**	C	AN	2/80	Used	1

Description: Code identifying a party or other code

Syntax Rules:

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

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N3   Address Information

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

User Option (Usage): Used
Purpose: To specify the location of the named party

Element Summary:

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

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N4　**Geographic Location**

<table>
<tr><td>Pos: 250</td><td>Max: 1</td></tr>
<tr><td colspan="2">Detail - Optional</td></tr>
<tr><td>Loop: N1</td><td>Elements: 4</td></tr>
</table>

User Option (Usage): Used
Purpose: To specify the geographic place of the named party

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage	Rep
N401	19	**City Name**	O	AN	2/30	Used	1
		Description: Free-form text for city name					
N402	156	**State or Province Code**	O	ID	2/2	Used	1
		Description: Code (Standard State/Province) as defined by appropriate government agency					
N403	116	**Postal Code**	O	ID	3/15	Used	1
		Description: Code defining international postal zone code excluding punctuation and blanks (zip code for United States)					
N404	26	**Country Code**	O	ID	2/3	Used	1
		Description: Code identifying the country					

Syntax Rules:

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

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HL

Hierarchical Level - Order

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

User Option (Usage): Must use
Purpose: To identify dependencies among and the content of hierarchically related groups of data segments

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage	Rep
HL01	628	**Hierarchical ID Number**	M	AN	1/12	Must use	1

Description: A unique number assigned by the sender to identify a particular data segment in a hierarchical structure

Ref	Id	Element Name	Req	Type	Min/Max	Usage	Rep
HL02	734	**Hierarchical Parent ID Number**	O	AN	1/12	Used	1

Description: Identification number of the next higher hierarchical data segment that the data segment being described is subordinate to

Ref	Id	Element Name	Req	Type	Min/Max	Usage	Rep
HL03	735	**Hierarchical Level Code**	M	ID	1/2	Must use	1

Description: Code defining the characteristic of a level in a hierarchical structure

CodeList Summary (Total Codes: 170, Included: 1)

Code	Name
O	Order

Ref	Id	Element Name	Req	Type	Min/Max	Usage	Rep
HL04	736	**Hierarchical Child Code**	O	ID	1/1	Used	1

Description: Code indicating if there are hierarchical child data segments subordinate to the level being described

CodeList Summary (Total Codes: 2, Included: 1)

Code	Name
1	Additional Subordinate HL Data Segment in This Hierarchical Structure.

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PRF	**Purchase Order Reference**	Pos: 050 Max: 1
		Detail - Optional
		Loop: HL Elements: 2

User Option (Usage): Used
Purpose: To provide reference to a specific purchase order

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage	Rep
PRF01	324	**Purchase Order Number**	M	AN	1/22	Must use	1
		Description: Identifying number for Purchase Order assigned by the orderer/purchaser					
PRF04	373	**Date**	O	DT	8/8	Used	1
		Description: Date expressed as CCYYMMDD					
		User: Purchase Order Date - date assigned by the purchaser to the purchase order.					

Semantics:

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

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TD1   Carrier Details (Quantity and Weight)

<table>
<tr><td>Pos: 110</td><td>Max: 20</td></tr>
<tr><td colspan="2" align="center">Detail - Optional</td></tr>
<tr><td>Loop: HL</td><td>Elements: 2</td></tr>
</table>

User Option (Usage): Used
Purpose: To specify the transportation details relative to commodity, weight, and quantity

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage	Rep
TD101	103	**Packaging Code**	O	AN	3/5	Used	1

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

CodeList Summary (Total Codes: 203, Included: 4)

Code	Name
25	Corrugated or Solid
94	Wood
BOX	Box
PLT	Pallet

Ref	Id	Element Name	Req	Type	Min/Max	Usage	Rep
TD102	80	**Lading Quantity**	C	N0	1/7	Used	1

Description: Number of units (pieces) of the lading commodity

Syntax Rules:

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

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REF Reference Identification

Pos: 150   **Max: >1**
Detail - Optional
Loop: HL   **Elements: 2**

User Option (Usage): Used
Purpose: To specify identifying information

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage	Rep
REF01	128	**Reference Identification Qualifier**	M	ID	2/3	Must use	1

Description: Code qualifying the Reference Identification

CodeList Summary (Total Codes: 1503, Included: 2)

Code	Name
EU	End User's Purchase Order Number
VN	Vendor Order Number

Ref	Id	Element Name	Req	Type	Min/Max	Usage	Rep
REF02	127	**Reference Identification**	C	AN	1/30	Used	1

Description: Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier

Syntax Rules:

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

Semantics:

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

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N1 **Name**

Pos: 220   **Max: 1**
Detail - Optional
Loop: N1   **Elements: 4**

User Option (Usage): Used
Purpose: To identify a party by type of organization, name, and code

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage	Rep
N101	98	**Entity Identifier Code**	M	ID	2/3	Must use	1

Description: Code identifying an organizational entity, a physical location, property or an individual

CodeList Summary (Total Codes: 1312, Included: 2)

Code	Name
BY	Buying Party (Purchaser)
ST	Ship To

Ref	Id	Element Name	Req	Type	Min/Max	Usage	Rep
N102	93	**Name**	C	AN	1/60	Used	1

Description: Free-form name

Ref	Id	Element Name	Req	Type	Min/Max	Usage	Rep
N103	66	**Identification Code Qualifier**	C	ID	1/2	Used	1

Description: Code designating the system/method of code structure used for Identification Code (67)

CodeList Summary (Total Codes: 215, Included: 1)

Code	Name
94	Code assigned by the organization that is the ultimate destination of the transaction set

Ref	Id	Element Name	Req	Type	Min/Max	Usage	Rep
N104	67	**Identification Code**	C	AN	2/80	Used	1

Description: Code identifying a party or other code

Syntax Rules:

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

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N3   Address Information

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

User Option (Usage): Used
Purpose: To specify the location of the named party

Element Summary:

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

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N4   Geographic Location

<table>
<tr><td>Pos: 250</td><td>Max: 1</td></tr>
<tr><td colspan="2" align="center">Detail - Optional</td></tr>
<tr><td>Loop: N1</td><td>Elements: 4</td></tr>
</table>

User Option (Usage): Used
Purpose: To specify the geographic place of the named party

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage	Rep
N401	19	**City Name**	O	AN	2/30	Used	1
		Description: Free-form text for city name					
N402	156	**State or Province Code**	O	ID	2/2	Used	1
		Description: Code (Standard State/Province) as defined by appropriate government agency					
N403	116	**Postal Code**	O	ID	3/15	Used	1
		Description: Code defining international postal zone code excluding punctuation and blanks (zip code for United States)					
N404	26	**Country Code**	O	ID	2/3	Used	1
		Description: Code identifying the country					

Syntax Rules:

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

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HL

Hierarchical Level - Pack

User Option (Usage): Must use
Purpose: To identify dependencies among and the content of hierarchically related groups of data segments

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage	Rep
HL01	628	**Hierarchical ID Number**	M	AN	1/12	Must use	1
		Description: A unique number assigned by the sender to identify a particular data segment in a hierarchical structure					
HL02	734	**Hierarchical Parent ID Number**	O	AN	1/12	Used	1
		Description: Identification number of the next higher hierarchical data segment that the data segment being described is subordinate to					
HL03	735	**Hierarchical Level Code**	M	ID	1/2	Must use	1
		Description: Code defining the characteristic of a level in a hierarchical structure					

CodeList Summary (Total Codes: 170, Included: 1)

Code	Name
P	Pack

Ref	Id	Element Name	Req	Type	Min/Max	Usage	Rep
HL04	736	**Hierarchical Child Code**	O	ID	1/1	Used	1
		Description: Code indicating if there are hierarchical child data segments subordinate to the level being described					

CodeList Summary (Total Codes: 2, Included: 1)

Code	Name
1	Additional Subordinate HL Data Segment in This Hierarchical Structure.

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PO4   Item Physical Details

Pos: 060	Max: 1
Detail - Optional	
Loop: HL	**Elements: 5**

User Option (Usage): Used
Purpose: To specify the physical qualities, packaging, weights, and dimensions relating to the item

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage	Rep
PO402	357	**Size**	C	R	1/8	Used	1
		Description: Size of supplier units in pack					
PO403	355	**Unit or Basis for Measurement Code**	C	ID	2/2	Used	1
		Description: Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken					

CodeList Summary (Total Codes: 794, Included: 1)

Code	Name
EA	Each

Ref	Id	Element Name	Req	Type	Min/Max	Usage	Rep
PO405	187	**Weight Qualifier**	O	ID	1/2	Used	1
		Description: Code defining the type of weight					

CodeList Summary (Total Codes: 51, Included: 1)

Code	Name
G	Gross Weight

Ref	Id	Element Name	Req	Type	Min/Max	Usage	Rep
PO406	384	**Gross Weight per Pack**	C	R	1/9	Used	1
		Description: Numeric value of gross weight per pack					
PO407	355	**Unit or Basis for Measurement Code**	C	ID	2/2	Used	1
		Description: Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken					

CodeList Summary (Total Codes: 794, Included: 1)

Code	Name
LB	Pound

Syntax Rules:

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

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4. PO418 is the number of packages in this layer.

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TD1 Carrier Details (Quantity and Weight)

<table>
<tr><td>Pos: 110</td><td>Max: 20</td></tr>
<tr><td colspan="2" align="center">Detail - Optional</td></tr>
<tr><td>Loop: HL</td><td>Elements: 2</td></tr>
</table>

User Option (Usage): Used
Purpose: To specify the transportation details relative to commodity, weight, and quantity

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage	Rep
TD101	103	**Packaging Code**	O	AN	3/5	Used	1

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

CodeList Summary (Total Codes: 203, Included: 4)

Code	Name
25	Corrugated or Solid
94	Wood
BOX	Box
PLT	Pallet

Ref	Id	Element Name	Req	Type	Min/Max	Usage	Rep
TD102	80	**Lading Quantity**	C	N0	1/7	Used	1

Description: Number of units (pieces) of the lading commodity

Syntax Rules:

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

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MAN   **Marks and Numbers**

Pos: 190	**Max: >1**
Detail - Optional	
Loop: HL	**Elements: 2**

User Option (Usage): Used
Purpose: To indicate identifying marks and numbers for shipping containers

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage	Rep
MAN01	88	**Marks and Numbers Qualifier**	M	ID	1/2	Must use	1

Description: Code specifying the application
or source of Marks and Numbers (87)

CodeList Summary (Total Codes: 20, Included: 3)

Code	Name
AA	SSCC-18
GM	SSCC-18 and Application Identifier
SM	Shipper Assigned

Ref	Id	Element Name	Req	Type	Min/Max	Usage	Rep
MAN02	87	**Marks and Numbers**	M	AN	1/48	Must use	1

Description: Marks and numbers used to
identify a shipment or parts of a shipment

Syntax Rules:

1. P0405 - If either MAN04 or MAN05 is present, then the other is required.
2. C0605 - If MAN06 is present, then MAN05 is 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.

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HL — Hierarchical Level - Item

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

User Option (Usage): Must use
Purpose: To identify dependencies among and the content of hierarchically related groups of data segments

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage	Rep
HL01	628	**Hierarchical ID Number**	M	AN	1/12	Must use	1

Description: A unique number assigned by the sender to identify a particular data segment in a hierarchical structure

Ref	Id	Element Name	Req	Type	Min/Max	Usage	Rep
HL02	734	**Hierarchical Parent ID Number**	O	AN	1/12	Used	1

Description: Identification number of the next higher hierarchical data segment that the data segment being described is subordinate to

Ref	Id	Element Name	Req	Type	Min/Max	Usage	Rep
HL03	735	**Hierarchical Level Code**	M	ID	1/2	Must use	1

Description: Code defining the characteristic of a level in a hierarchical structure

CodeList Summary (Total Codes: 170, Included: 1)

Code	Name
I	Item

Ref	Id	Element Name	Req	Type	Min/Max	Usage	Rep
HL04	736	**Hierarchical Child Code**	O	ID	1/1	Used	1

Description: Code indicating if there are hierarchical child data segments subordinate to the level being described

CodeList Summary (Total Codes: 2, Included: 1)

Code	Name
1	Additional Subordinate HL Data Segment in This Hierarchical Structure.

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LIN — Item Identification

Pos: 020		**Max: 1**
	Detail - Optional	
Loop: HL		**Elements: 9**

User Option (Usage): Used
Purpose: To specify basic item identification data

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage	Rep
LIN01	350	**Assigned Identification**	O	AN	1/20	Used	1

Description: Alphanumeric characters assigned for differentiation within a transaction set
User: Original line number from purchase order

Ref	Id	Element Name	Req	Type	Min/Max	Usage	Rep
LIN02	235	**Product/Service ID Qualifier**	M	ID	2/2	Must use	1

Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234)

CodeList Summary (Total Codes: 477, Included: 4)

Code	Name
BP	Buyer's Part Number
MG	Manufacturer's Part Number
UP	U.P.C. Consumer Package Code (1-5-5-1)
VP	Vendor's (Seller's) Part Number

Ref	Id	Element Name	Req	Type	Min/Max	Usage	Rep
LIN03	234	**Product/Service ID**	M	AN	1/48	Must use	1

Description: Identifying number for a product or service

Ref	Id	Element Name	Req	Type	Min/Max	Usage	Rep
LIN04	235	**Product/Service ID Qualifier**	C	ID	2/2	Used	1

Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234)

Ref	Id	Element Name	Req	Type	Min/Max	Usage	Rep
LIN05	234	**Product/Service ID**	C	AN	1/48	Used	1

Description: Identifying number for a product or service

Ref	Id	Element Name	Req	Type	Min/Max	Usage	Rep
LIN06	235	**Product/Service ID Qualifier**	C	ID	2/2	Used	1

Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234)

Ref	Id	Element Name	Req	Type	Min/Max	Usage	Rep
LIN07	234	**Product/Service ID**	C	AN	1/48	Used	1

Description: Identifying number for a product or service

Ref	Id	Element Name	Req	Type	Min/Max	Usage	Rep
LIN08	235	**Product/Service ID Qualifier**	C	ID	2/2	Used	1

Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234)

Ref	Id	Element Name	Req	Type	Min/Max	Usage	Rep
LIN09	234	**Product/Service ID**	C	AN	1/48	Used	1

Description: Identifying number for a product or service

Syntax Rules:

1. P0405 - If either LIN04 or LIN05 is present, then the other is required.

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

Semantics:

1. LIN01 is the line item identification

User:

Product IDs listed in LIN02 can be sent in any order.

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SN1   Item Detail (Shipment)

Pos: 030	**Max: 1**
Detail - Optional	
Loop: HL	**Elements: 5**

User Option (Usage): Used
Purpose: To specify line-item detail relative to shipment

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage	Rep
SN102	382	**Number of Units Shipped**	M	R	1/10	Must use	1
		Description: Numeric value of units shipped in manufacturer's shipping units for a line item or transaction set					
SN103	355	**Unit or Basis for Measurement Code**	M	ID	2/2	Must use	1
		Description: Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken					

CodeList Summary (Total Codes: 794, Included: 1)

Code	Name
EA	Each

Ref	Id	Element Name	Req	Type	Min/Max	Usage	Rep
SN104	646	**Quantity Shipped to Date**	O	R	1/15	Used	1
		Description: Number of units shipped to date					
SN105	330	**Quantity Ordered**	C	R	1/15	Used	1
		Description: Quantity ordered					
SN106	355	**Unit or Basis for Measurement Code**	C	ID	2/2	Used	1
		Description: Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken					

CodeList Summary (Total Codes: 794, Included: 1)

Code	Name
EA	Each

Syntax Rules:

1. P0506 - If either SN105 or SN106   is present, then the other is required.

Semantics:

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

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PID Product/Item Description

Pos: 070	**Max: 200**
Detail - Optional	
Loop: HL	**Elements: 2**

User Option (Usage): Used
Purpose: To describe a product or process in coded or free-form format

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage	Rep
PID01	349	**Item Description Type**	M	ID	1/1	Must use	1

Description: Code indicating the format of a description

CodeList Summary (Total Codes: 3, Included: 1)

Code	Name
F	Free-form

Ref	Id	Element Name	Req	Type	Min/Max	Usage	Rep
PID05	352	**Description**	C	AN	1/80	Used	1

Description: A free-form description to clarify the related data elements and their content

Syntax Rules:

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

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REF   Reference Identification

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

User Option (Usage): Used
Purpose: To specify identifying information

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage	Rep
REF01	128	**Reference Identification Qualifier**	M	ID	2/3	Must use	1

Description: Code qualifying the Reference Identification

CodeList Summary (Total Codes: 1503, Included: 2)

Code	Name
JH	Tag

User:
 This represents the asset tag number for an item.

SE	Serial Number	

Ref	Id	Element Name	Req	Type	Min/Max	Usage	Rep
REF02	127	**Reference Identification**	C	AN	1/30	Used	1

Description: Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier

Ref	Id	Element Name	Req	Type	Min/Max	Usage	Rep
REF03	352	**Description**	C	AN	1/80	Used	1

Description: A free-form description to clarify the related data elements and their content
User: This element will contain the asset tag number for an item.

Ref	Id	Element Name	Req	Type	Min/Max	Usage	Rep
REF04	C040	**Reference Identifier**	O	Comp		Used	1

Description: To identify one or more reference numbers or identification numbers as specified by the Reference Qualifier
User: This composite data structure will contain the serial number of the master item (finished good) of the build.

Ref	Id	Element Name	Req	Type	Min/Max	Usage	Rep
REF04-01	128	**Reference Identification Qualifier**	M	ID	2/3	Must use	1

Description: Code qualifying the Reference Identification

CodeList Summary (Total Codes: 1503, Included: 1)

Code	Name
WH	Master Reference (Link) Number

Ref	Id	Element Name	Req	Type	Min/Max	Usage	Rep
REF04-02	127	**Reference Identification**	M	AN	1/30	Must use	1

Description: Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier
User: Master item serial number for a "build" product.

Syntax Rules:

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

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Semantics:

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

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CTT   **Transaction Totals**

User Option (Usage): Used
Purpose: To transmit a hash total for a specific element in the transaction set

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage	Rep
CTT01	354	**Number of Line Items**	M	N0	1/6	Must use	1
		Description: Total number of line items in the transaction set					

Syntax Rules:

1. P0304 - If either CTT03 or CTT04   is present, then the other is required.
2. P0506 - If either CTT05 or CTT06   is present, then the other is required.

SE Transaction Set Trailer

Pos: 020	**Max: 1**
Summary - Mandatory	
Loop: N/A	**Elements: 2**

User Option (Usage): Must use
Purpose: To indicate the end of the transaction set and provide the count of the transmitted segments (including the beginning (ST) and ending (SE) segments)

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage	Rep
SE01	96	**Number of Included Segments**	M	N0	1/10	Must use	1
		Description: Total number of segments included in a transaction set including ST and SE segments					
SE02	329	**Transaction Set Control Number**	M	AN	4/9	Must use	1
		Description: Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set					

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