

# 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.

#### Notes:

- Initial This Pubnet 856 standard, version 3060 is a subset of the full BISAC 856 standard, May 1999 – 3060, version 2
- 2/010 Table 2 has 4 different HL Loop formats to define the Shipment, Order, Pack and Item Hierarchical Levels. The loop ID has been changed to reflect the HL03 Hierarchical Level Code to use with the format defined in that HL loop.  
(S-shipment, O-order, P-pack, I-item)
- 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:

- 2/010 The HL segment is the only mandatory segment within the HL loop, and by itself, the HL segment has no meaning.

#### Change Log:

1. May 2006 (Beth Bauman)
  - a. Add ISBN-13 related values for data elements Add the Product/Service ID Qualifier, EN, to the LIN02 for the ISBN-13
2. June 2018 (Beth Bauman): per the 3060 X12 guidelines published December 1997.
  - a. DTM: Corrected position of DTM: remove from the Hierarchy Level – Shipment (HL – S) and return to Heading section;
  - b. follows the BSN.
  - c. CTT: Switch CTT01 to number of HL segments (from number of LIN Segments). Clarified that CTT02 hash total was sum of SN102 quantities.
3. April 2020 (Beth Bauman):
  - a. Add back missing notes, descriptions, comments, semantics from the BISAC 3060 standards plus helpful notes from Booknet Canada standards.
  - b. Added the ACK27 and Ack 28 data elements from the full BISAC standard because we found some trading partner’ maps are requiring them. The “Req” column shows them as “O” (Optional).

#### Heading:

<u>Pos</u>	<u>Id</u>	<u>Segment Name</u>	<u>Req</u>	<u>Max Use</u>	<u>Repeat</u>	<u>Notes</u>
010	ST	Transaction Set Header	M	1		
020	BSN	Beginning Segment for Ship Notice	M	1		
040	DTM	Date/Time Reference	O	10		

#### Detail:

<u>Pos</u>	<u>Id</u>	<u>Segment Name</u>	<u>Req</u>	<u>Max Use</u>	<u>Repeat</u>	<u>Notes</u>
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<b>LOOP ID - HL - S</b>						
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010	HL	Hierarchical Level - SHIPMENT	M	1		C&N2/0 10
-----	----	-------------------------------	---	---	--	--------------

110	TD1	Carrier Details (Quantity and Weight)	O	20
120	TD5	Carrier Details (Routing Sequence/Transit Time)	O	12
150	REF	Reference Identification	O	>1

<b>LOOP ID - N1</b>			<b>200</b>	
340	N1	Name	O	1
350	N2	Additional Name Information	O	2
360	N3	Address Information	O	2
370	N4	Geographic Location	O	1

<b>LOOP ID - HL - O</b>			<b>200000</b>	
380	HL	Hierarchical Level - ORDER	M	1
390	PRF	Purchase Order Reference	O	1

<b>LOOP ID - HL - T</b>			<b>200000</b>	
420	HL	Hierarchical Level - TARE	M	1
430	PAL	Pallet Information	O	1
440	MAN	Marks and Numbers	O	>1

<b>LOOP ID - HL - P</b>			<b>200000</b>	
450	HL	Hierarchical Level - PACK	M	1
460	MEA	Measurements	O	40
470	MAN	Marks and Numbers	O	>1

<b>LOOP ID - HL - I</b>			<b>200000</b>	
480	HL	Hierarchical Level - ITEM	M	1
490	LIN	Item Identification	O	1
500	SN1	Item Detail (Shipment)	O	1
520	MEA	Measurements	O	40
530	CUR	Currency	O	1

**Summary:**

<u>Pos</u>	<u>Id</u>	<u>Segment Name</u>	<u>Req</u>	<u>Max Use</u>	<u>Repeat</u>	<u>Notes</u>
530	CTT	Transaction Totals	O	1		N3/530
540	SE	Transaction Set Trailer	M	1		

# ST Transaction Set Header

<b>Pos: 010</b>	<b>Max: 1</b>
<b>Heading - Mandatory</b>	
<b>Loop: N/A</b>	<b>Elements: 2</b>

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

**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., 856 selects the Ship Notice/Manifest Transaction Set).

**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>				
ST01	143	<b>Transaction Set Identifier Code</b> <b>Description:</b> Code uniquely identifying a Transaction Set	M	ID	3/3	Required				
		<table border="1"> <thead> <tr> <th><u>Code</u></th> <th><u>Name</u></th> </tr> </thead> <tbody> <tr> <td>856</td> <td>X12.10 Ship Notice/Manifest</td> </tr> </tbody> </table>	<u>Code</u>	<u>Name</u>	856	X12.10 Ship Notice/Manifest				
<u>Code</u>	<u>Name</u>									
856	X12.10 Ship Notice/Manifest									
ST02	329	<b>Transaction Set Control Number</b> <b>Description:</b> Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set	M	AN	4/9	Required				

# BSN Beginning Segment for Ship Notice

Pos: 020	Max: 1
Heading - Mandatory	
Loop: N/A	Elements: 5

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

**Semantics:**

1. BSN03 is the date the shipment transaction set is created.
2. BSN04 is the time the shipment transaction set is created.

**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	<b>Transaction Set Purpose Code</b> <b>Description:</b> Code identifying purpose of transaction set	M	ID	2/2	Required				
		<table border="1"> <thead> <tr> <th><u>Code</u></th> <th><u>Name</u></th> </tr> </thead> <tbody> <tr> <td>00</td> <td>Original</td> </tr> </tbody> </table>	<u>Code</u>	<u>Name</u>	00	Original				
<u>Code</u>	<u>Name</u>									
00	Original									
BSN02	396	<b>Shipment Identification</b> <b>Description:</b> A unique control number assigned by the original shipper to identify a specific shipment	M	AN	2/30	Required				
BSN03	373	<b>Date</b> <b>Description:</b> Date (YYMMDD)	M	DT	6/6	Required				
BSN04	337	<b>Time</b> <b>Description:</b> 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	Required				
BSN05	1005	<b>Hierarchical Structure Code</b> <b>Description:</b> Code indicating the hierarchical application structure of a transaction set that utilizes the HL segment to define the structure of the transaction set	O	ID	4/4	Used				
		<table border="1"> <thead> <tr> <th><u>Code</u></th> <th><u>Name</u></th> </tr> </thead> <tbody> <tr> <td>0001</td> <td>Shipment, Order, Packaging, Item</td> </tr> </tbody> </table>	<u>Code</u>	<u>Name</u>	0001	Shipment, Order, Packaging, Item				
<u>Code</u>	<u>Name</u>									
0001	Shipment, Order, Packaging, Item									

# DTM Date/Time Reference

Pos: 310	Max: 10
Detail - Optional	
Loop: HL - S	Elements: 5

To specify pertinent dates and times

**Syntax:**

R020306 -- At least one of DTM02 or DTM03 is 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>																												
DTM01	374	<b>Date/Time Qualifier</b> <b>Description:</b> Code specifying type of date or time, or both date and time	M	ID	3/3	Required																												
		<table border="1"> <thead> <tr> <th><u>Code</u></th> <th><u>Name</u></th> </tr> </thead> <tbody> <tr> <td>011</td> <td>Shipped</td> </tr> </tbody> </table>	<u>Code</u>	<u>Name</u>	011	Shipped																												
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DTM02	373	<b>Date</b> <b>Description:</b> Date (YYMMDD)	C	DT	6/6	Required																												
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DTM04	623	<b>Time Code</b> <b>Description:</b> 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	O	ID	2/2	Used																												
		<table border="1"> <thead> <tr> <th><u>Code</u></th> <th><u>Name</u></th> </tr> </thead> <tbody> <tr> <td>CD</td> <td>Central Daylight Time</td> </tr> <tr> <td>CS</td> <td>Central Standard Time</td> </tr> <tr> <td>CT</td> <td>Central Time</td> </tr> <tr> <td>ED</td> <td>Eastern Daylight Time</td> </tr> <tr> <td>ES</td> <td>Eastern Standard Time</td> </tr> <tr> <td>ET</td> <td>Eastern Time</td> </tr> <tr> <td>LT</td> <td>Local Time</td> </tr> <tr> <td>MD</td> <td>Mountain Daylight Time</td> </tr> <tr> <td>MS</td> <td>Mountain Standard Time</td> </tr> <tr> <td>MT</td> <td>Mountain Time</td> </tr> <tr> <td>PD</td> <td>Pacific Daylight Time</td> </tr> <tr> <td>PS</td> <td>Pacific Standard Time</td> </tr> <tr> <td>PT</td> <td>Pacific Time</td> </tr> </tbody> </table>	<u>Code</u>	<u>Name</u>	CD	Central Daylight Time	CS	Central Standard Time	CT	Central Time	ED	Eastern Daylight Time	ES	Eastern Standard Time	ET	Eastern Time	LT	Local Time	MD	Mountain Daylight Time	MS	Mountain Standard Time	MT	Mountain Time	PD	Pacific Daylight Time	PS	Pacific Standard Time	PT	Pacific Time				
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PD	Pacific Daylight Time																																	
PS	Pacific Standard Time																																	
PT	Pacific Time																																	
DTM05	624	<b>Century</b> <b>Description:</b> The first two characters in the designation of the year (CCYY)	O	N0	2/2	Required																												

# HL Hierarchical Level - SHIPMENT

<b>Pos: 010</b>	<b>Max: 1</b>
<b>Detail - Mandatory</b>	
<b>Loop: HL - S</b>	<b>Elements: 4</b>

To identify dependencies among and the content of hierarchically related groups of data segments. Used to indicate the Shipment hierarchical level.

### Comments:

1. The HL segment is used to identify levels of detail information using a hierarchical structure, such as relating line-item data to shipment data, and packaging data to line-item data.
2. The HL segment defines a top-down/left-right ordered structure.
3. HL01 shall contain a unique alphanumeric number for each occurrence of the HL segment in the transaction set. For example, HL01 could be used to indicate the number of occurrences of the HL segment, in which case the value of HL01 would be "1" for the initial HL segment and would be incremented by one in each subsequent HL segment within the transaction.
4. HL02 identifies the hierarchical ID number of the HL segment to which the current HL segment is subordinate.
5. HL03 indicates the context of the series of segments following the current HL segment up to the next occurrence of an HL segment in the transaction. For example, HL03 is used to indicate that subsequent segments in the HL loop form a logical grouping of data referring to shipment, order, or item-level information.
6. HL04 indicates whether or not there are subordinate (or child) HL segments related to the current HL segment.

### 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	<b>Hierarchical ID Number</b> <b>Description:</b> A unique number assigned by the sender to identify a particular data segment in a hierarchical structure	M	AN	1/12	Required				
HL02	734	<b>Hierarchical Parent ID Number</b> <b>Description:</b> Identification number of the next higher hierarchical data segment that the data segment being described is subordinate to	O	AN	1/12	Not Used				
HL03	735	<b>Hierarchical Level Code</b> <b>Description:</b> Code defining the characteristic of a level in a hierarchical structure	M	ID	1/2	Required				
		<table border="0"> <thead> <tr> <th><u>Code</u></th> <th><u>Name</u></th> </tr> </thead> <tbody> <tr> <td>S</td> <td>Shipment</td> </tr> </tbody> </table>	<u>Code</u>	<u>Name</u>	S	Shipment				
<u>Code</u>	<u>Name</u>									
S	Shipment									
HL04	736	<b>Hierarchical Child Code</b> <b>Description:</b> Code indicating if there are hierarchical child data segments subordinate to the level being described	O	ID	1/1	Not Used				
		<table border="0"> <thead> <tr> <th><u>Code</u></th> <th><u>Name</u></th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Additional Subordinate HL Data Segment in This Hierarchical Structure.</td> </tr> </tbody> </table>	<u>Code</u>	<u>Name</u>	1	Additional Subordinate HL Data Segment in This Hierarchical Structure.				
<u>Code</u>	<u>Name</u>									
1	Additional Subordinate HL Data Segment in This Hierarchical Structure.									

# TD1 Carrier Details (Quantity and Weight)

Pos: 110	Max: 20
Detail - Optional	
Loop: HL - S	Elements: 8

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

### Syntax:

1. TD101 C0102 -- If TD101 is present, then TD102 is required
2. TD103 C0304 -- If TD103 is present, then TD104 is required
3. TD106 C0607 -- If TD106 is present, then TD107 is required
4. TD107 P0708 -- If either TD107 or TD108 are present, then the others 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>								
TD101	103	<b>Packaging Code</b> <b>Description:</b> Code identifying the type of packaging; Part 1: Packaging Form, Part 2: Packaging Material  <b>User:</b> <i>The Book Industry uses the following code values:</i>	O	AN	3/5	Used								
		<table border="1"> <thead> <tr> <th><u>Code</u></th> <th><u>Name</u></th> </tr> </thead> <tbody> <tr> <td>CTN25</td> <td>Carton, corrugated or solid</td> </tr> <tr> <td>PLT94</td> <td>Pallet, wood</td> </tr> <tr> <td>UNT76</td> <td>Unit, paper</td> </tr> </tbody> </table>	<u>Code</u>	<u>Name</u>	CTN25	Carton, corrugated or solid	PLT94	Pallet, wood	UNT76	Unit, paper				
<u>Code</u>	<u>Name</u>													
CTN25	Carton, corrugated or solid													
PLT94	Pallet, wood													
UNT76	Unit, paper													
TD102	80	<b>Lading Quantity</b> <b>Description:</b> Number of units (pieces) of the lading commodity	C	N0	1/7	Used								
TD103	23	<b>Commodity Code Qualifier</b> <b>Description:</b> Code identifying the commodity coding system used for Commodity Code	O	ID	1/1	Used								
		<table border="1"> <thead> <tr> <th><u>Code</u></th> <th><u>Name</u></th> </tr> </thead> <tbody> <tr> <td>Z</td> <td>Mutually defined. <b>Description:</b> The Book Industry uses this value for insurance commodity codes.</td> </tr> </tbody> </table>	<u>Code</u>	<u>Name</u>	Z	Mutually defined. <b>Description:</b> The Book Industry uses this value for insurance commodity codes.								
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Z	Mutually defined. <b>Description:</b> The Book Industry uses this value for insurance commodity codes.													
TD104	22	<b>Commodity Code</b> <b>Description:</b> Code describing a commodity or group of commodities	C	AN	1/30	Used								
TD105	79	<b>Lading Description</b> <b>Description:</b> Description of an item as required for rating and billing purposes	O	AN	1/50	Used								
TD106	187	<b>Weight Qualifier</b> <b>Description:</b> Code defining the type of weight	O	ID	1/2	Used								
		<table border="1"> <thead> <tr> <th><u>Code</u></th> <th><u>Name</u></th> </tr> </thead> <tbody> <tr> <td>G</td> <td>Gross Weight</td> </tr> </tbody> </table>	<u>Code</u>	<u>Name</u>	G	Gross Weight								
<u>Code</u>	<u>Name</u>													
G	Gross Weight													
TD107	81	<b>Weight</b> <b>Description:</b> Numeric value of weight	C	R	1/10	Used								

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
TD108	355	<b>Unit or Basis for Measurement Code</b>	C	ID	2/2	Used

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

<u>Code</u>	<u>Name</u>
LB	Pound



# TD5 Carrier Details (Routing Sequence/Transit Time)

Pos: 120	Max: 12
Detail - Optional	
Loop: HL - S	Elements: 8

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

**Syntax:**

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

**Comments:**

1. When specifying a routing sequence to be used for the shipment movement in lieu of specifying each carrier within the movement, use TD502 to identify the party responsible for defining the routing sequence, and use TD503 to identify the actual routing sequence, specified by the party identified in TD502.

**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	<b>Routing Sequence Code</b> <b>Description:</b> Code describing the relationship of a carrier to a specific shipment movement	O	ID	1/2	Used				
		<table border="0"> <thead> <tr> <th><u>Code</u></th> <th><u>Name</u></th> </tr> </thead> <tbody> <tr> <td>B</td> <td>Origin/Delivery Carrier (Any Mode)</td> </tr> </tbody> </table>	<u>Code</u>	<u>Name</u>	B	Origin/Delivery Carrier (Any Mode)				
<u>Code</u>	<u>Name</u>									
B	Origin/Delivery Carrier (Any Mode)									
TD502	66	<b>Identification Code Qualifier</b> <b>Description:</b> Code designating the system/method of code structure used for Identification Code (67)	C	ID	1/2	Used				
		<table border="0"> <thead> <tr> <th><u>Code</u></th> <th><u>Name</u></th> </tr> </thead> <tbody> <tr> <td>2</td> <td>Standard Carrier Alpha Code (SCAC)</td> </tr> </tbody> </table>	<u>Code</u>	<u>Name</u>	2	Standard Carrier Alpha Code (SCAC)				
<u>Code</u>	<u>Name</u>									
2	Standard Carrier Alpha Code (SCAC)									
TD503	67	<b>Identification Code</b> <b>Description:</b> Code identifying a party or other code	C	AN	2/20	Used				
TD504	91	<b>Transportation Method/Type Code</b> <b>Description:</b> Code specifying the method or type of transportation for the shipment	C	ID	1/2	Used				
		<table border="0"> <thead> <tr> <th><u>Code</u></th> <th><u>Name</u></th> </tr> </thead> <tbody> <tr> <td>L</td> <td>Contract Carrier</td> </tr> </tbody> </table>	<u>Code</u>	<u>Name</u>	L	Contract Carrier				
<u>Code</u>	<u>Name</u>									
L	Contract Carrier									
TD505	387	<b>Routing</b> <b>Description:</b> Free-form description of the routing or requested routing for shipment, or the originating carrier's identity	C	AN	1/35	Used				
TD506	368	<b>Shipment/Order Status Code</b> <b>Description:</b> 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	C	ID	2/2	Used				
		<table border="0"> <thead> <tr> <th><u>Code</u></th> <th><u>Name</u></th> </tr> </thead> </table>	<u>Code</u>	<u>Name</u>						
<u>Code</u>	<u>Name</u>									

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
		CC Shipment Complete on (Date)				
		CP Partial Shipment on (Date),Considered No Backorder				
		SS Split Shipment				
<b>TD510</b>	<b>732</b>	<b>Transit Time Direction Qualifier</b>	<b>O</b>	<b>ID</b>	<b>2/2</b>	<b>Used</b>
		<b>Description:</b> Code specifying the value of time used to measure the transit time				
		<u>Code</u> <u>Name</u>				
		CD Calendar Days (Includes weekends and Holidays)				
		WD Working Days (Excludes weekends and holidays)				
<b>TD511</b>	<b>733</b>	<b>Transit Time</b>	<b>C</b>	<b>R</b>	<b>1/4</b>	<b>Used</b>
		<b>Description:</b> The numeric amount of transit time				

# REF Reference Identification

Pos: 150	Max: >1
Detail - Optional	
Loop: HL - S	Elements: 3

To specify identifying information

**Syntax:**

1. REF02 R0203 -- At least one of REF02 or REF03 is 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>								
REF01	128	<b>Reference Identification Qualifier</b> <b>Description:</b> Code Qualifying the Reference Identification	M	ID	2/3	Required								
		<table border="0"> <thead> <tr> <th><u>Code</u></th> <th><u>Name</u></th> </tr> </thead> <tbody> <tr> <td>BM</td> <td>Bill of Lading Number</td> </tr> <tr> <td>CN</td> <td>Carrier's Reference Number (PRO/Invoice)</td> </tr> <tr> <td>MA</td> <td>Ship Notice/Manifest Number</td> </tr> </tbody> </table>	<u>Code</u>	<u>Name</u>	BM	Bill of Lading Number	CN	Carrier's Reference Number (PRO/Invoice)	MA	Ship Notice/Manifest Number				
<u>Code</u>	<u>Name</u>													
BM	Bill of Lading Number													
CN	Carrier's Reference Number (PRO/Invoice)													
MA	Ship Notice/Manifest Number													
REF02	127	<b>Reference Identification</b> <b>Description:</b> Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	C	AN	1/30	Used								
REF03	352	<b>Description</b> <b>Description:</b> A free-form description to clarify the related data elements and their content	C	AN	1/80	Used								

# N1

## Name

Pos: 340	Max: 1
Detail - Optional	
Loop: N1	Elements: 4

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

**Syntax:**

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

**Comments:**

- This segment, used alone, provides the most efficient method of providing organizational identification. To obtain this efficiency the "ID Code" (N104) must provide a key to the table maintained by the transaction processing 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>										
N101	98	<b>Entity Identifier Code</b> <b>Description:</b> Code identifying an organizational entity, a physical location, or an individual	M	ID	2/2	Required										
		<table border="0"> <thead> <tr> <th><u>Code</u></th> <th><u>Name</u></th> </tr> </thead> <tbody> <tr> <td>BT</td> <td>Bill-to-Party</td> </tr> <tr> <td>SF</td> <td>Ship From</td> </tr> <tr> <td>ST</td> <td>Ship To</td> </tr> <tr> <td>VN</td> <td>Vendor</td> </tr> </tbody> </table>	<u>Code</u>	<u>Name</u>	BT	Bill-to-Party	SF	Ship From	ST	Ship To	VN	Vendor				
<u>Code</u>	<u>Name</u>															
BT	Bill-to-Party															
SF	Ship From															
ST	Ship To															
VN	Vendor															
N102	93	<b>Name</b> <b>Description:</b> Free-form name	C	AN	1/35	Used										
N103	66	<b>Identification Code Qualifier</b> <b>Description:</b> Code designating the system/method of code structure used for Identification Code (67)	C	ID	1/2	Used										
		<table border="0"> <thead> <tr> <th><u>Code</u></th> <th><u>Name</u></th> </tr> </thead> <tbody> <tr> <td>15</td> <td>Standard Address Number (SAN)</td> </tr> </tbody> </table>	<u>Code</u>	<u>Name</u>	15	Standard Address Number (SAN)										
<u>Code</u>	<u>Name</u>															
15	Standard Address Number (SAN)															
N104	67	<b>Identification Code</b> <b>Description:</b> Code identifying a party or other code	C	AN	2/20	Used										

# N2

## Additional Name Information

Pos: 350	Max: 2
Detail - Optional	
Loop: N1	Elements: 2

To specify additional names or those longer than 35 characters in length

### 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>
N201	93	Name <b>Description:</b> Free-form name	M	AN	1/35	Required
N202	93	Name <b>Description:</b> Free-form name	O	AN	1/35	Used

# N3

## Address Information

Pos: 360	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	<b>Address Information</b> Description: Address information	M	AN	1/35	Required
N302	166	<b>Address Information</b> Description: Address information	O	AN	1/35	Used

# N4

## Geographic Location

Pos: 370	Max: 1
Detail - Optional	
Loop: N1	Elements: 4

To specify the geographic place of the named party

### Comments:

- N402 is required only if city name (N401) is in the U.S. or Canada.

### 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	<b>City Name</b> <b>Description:</b> Free-form text for city name	O	AN	2/30	Used
N402	156	<b>State or Province Code</b> <b>Description:</b> Code (Standard State/Province) as defined by appropriate government agency	O	ID	2/2	Used
N403	116	<b>Postal Code</b> <b>Description:</b> Code defining international postal zone code excluding punctuation and blanks (zip code for United States)	O	ID	3/15	Used
N404	26	<b>Country Code</b> <b>Description:</b> Code identifying the country	O	ID	2/3	Used

# HL

## Hierarchical Level - ORDER

<b>Pos: 380</b>	<b>Max: 1</b>
<b>Detail - Mandatory</b>	
<b>Loop: HL - O</b>	<b>Elements: 4</b>

To identify dependencies among and the content of hierarchically related groups of data segments. Used to indicate the Order hierarchical level.

### Comments:

1. The HL segment is used to identify levels of detail information using a hierarchical structure, such as relating line-item data to shipment data, and packaging data to line-item data.
2. The HL segment defines a top-down/left-right ordered structure.
3. HL01 shall contain a unique alphanumeric number for each occurrence of the HL segment in the transaction set. For example, HL01 could be used to indicate the number of occurrences of the HL segment, in which case the value of HL01 would be "1" for the initial HL segment and would be incremented by one in each subsequent HL segment within the transaction.
4. HL02 identifies the hierarchical ID number of the HL segment to which the current HL segment is subordinate.
5. HL03 indicates the context of the series of segments following the current HL segment up to the next occurrence of an HL segment in the transaction. For example, HL03 is used to indicate that subsequent segments in the HL loop form a logical grouping of data referring to shipment, order, or item-level information.
6. HL04 indicates whether or not there are subordinate (or child) HL segments related to the current HL segment.

### 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	<b>Hierarchical ID Number</b> <b>Description:</b> A unique number assigned by the sender to identify a particular data segment in a hierarchical structure	M	AN	1/12	Required				
HL02	734	<b>Hierarchical Parent ID Number</b> <b>Description:</b> 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	<b>Hierarchical Level Code</b> <b>Description:</b> Code defining the characteristic of a level in a hierarchical structure	M	ID	1/2	Required				
		<table border="0"> <thead> <tr> <th><u>Code</u></th> <th><u>Name</u></th> </tr> </thead> <tbody> <tr> <td>O</td> <td>Order</td> </tr> </tbody> </table>	<u>Code</u>	<u>Name</u>	O	Order				
<u>Code</u>	<u>Name</u>									
O	Order									
HL04	736	<b>Hierarchical Child Code</b> <b>Description:</b> Code indicating if there are hierarchical child data segments subordinate to the level being described	O	ID	1/1	Used				



# PRF Purchase Order Reference

Pos: 390	Max: 1
Detail - Optional	
Loop: HL - O	Elements: 6

To provide reference to a specific purchase order

**Semantics:**

1. PRF04 is the date assigned by the purchaser to purchase order.
2. Used to indicate the default purchase order number. This purchase order number can be overridden at the line level (See LIN at item level).

**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	<b>Purchase Order Number</b> <b>Description:</b> Identifying number for Purchase Order assigned by the orderer/purchaser	M	AN	1/22	Required
PRF02	328	<b>Release Number</b> <b>Description:</b> Number identifying a release against a Purchase Order previously placed by the parties involved in the transaction	O	AN	1/30	Used
PRF04	373	<b>Date</b> <b>Description:</b> Date (YYMMDD)	O	DT	6/6	Used
PRF05	350	<b>Assigned Identification</b> <b>Description:</b> Alphanumeric characters assigned for differentiation within a transaction set	O	AN	1/20	Used
PRF06	367	<b>Contract Number</b> <b>Description:</b> Contract number	O	AN	1/30	Used
PRF07	92	<b>Purchase Order Type Code</b> <b>Description:</b> Code specifying the type of Purchase Order	O	ID	2/2	Used

<u>Code</u>	<u>Name</u>
SA	Stand-alone Order

# HL Hierarchical Level - TARE

<b>Pos: 420</b>	<b>Max: 1</b>
<b>Detail - Mandatory</b>	
<b>Loop: HL - T</b>	<b>Elements: 4</b>

To identify dependencies among and the content of hierarchically related groups of data segments. Used to indicate the Pallet/Tare hierarchical level.

### Comments:

1. The HL segment is used to identify levels of detail information using a hierarchical structure, such as relating line-item data to shipment data, and packaging data to line-item data.
2. The HL segment defines a top-down/left-right ordered structure.
3. HL01 shall contain a unique alphanumeric number for each occurrence of the HL segment in the transaction set. For example, HL01 could be used to indicate the number of occurrences of the HL segment, in which case the value of HL01 would be "1" for the initial HL segment and would be incremented by one in each subsequent HL segment within the transaction.
4. HL02 identifies the hierarchical ID number of the HL segment to which the current HL segment is subordinate.
5. HL03 indicates the context of the series of segments following the current HL segment up to the next occurrence of an HL segment in the transaction. For example, HL03 is used to indicate that subsequent segments in the HL loop form a logical grouping of data referring to shipment, order, or item-level information.
6. HL04 indicates whether or not there are subordinate (or child) HL segments related to the current HL segment.

### 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	<b>Hierarchical ID Number</b> <b>Description:</b> A unique number assigned by the sender to identify a particular data segment in a hierarchical structure	M	AN	1/12	Required				
HL02	734	<b>Hierarchical Parent ID Number</b> <b>Description:</b> Identification number of the next higher hierarchical data segment that the data segment being described is subordinate to	O	AN	1/12	Not Used				
HL03	735	<b>Hierarchical Level Code</b> <b>Description:</b> Code defining the characteristic of a level in a hierarchical structure	M	ID	1/2	Required				
		<table border="0"> <thead> <tr> <th><u>Code</u></th> <th><u>Name</u></th> </tr> </thead> <tbody> <tr> <td>T</td> <td>Shipping Tare</td> </tr> </tbody> </table>	<u>Code</u>	<u>Name</u>	T	Shipping Tare				
<u>Code</u>	<u>Name</u>									
T	Shipping Tare									
HL04	736	<b>Hierarchical Child Code</b> <b>Description:</b> Code indicating if there are hierarchical child data segments subordinate to the level being described	O	ID	1/1	Not Used				

# PAL Pallet Information

Pos: 430	Max: 1
Detail - Optional	
Loop: HL - T	Elements: 1

To identify the type and physical attributes of the pallet, and, gross weight, gross volume, and height of the load and the pallet

## 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>
PAL01	883	Pallet Type Code	O	ID	1/2	Used

**Description:** Code indicating the type of pallet

	<u>Code</u>	<u>Name</u>
4	Standard	
6	Wood	

# MAN Marks and Numbers

Pos: 440	Max: >1
Detail - Optional	
Loop: HL - T	Elements: 2

To indicate identifying marks and numbers for shipping containers

## 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	<b>Marks and Numbers Qualifier</b> <b>Description:</b> Code specifying the application or source of Marks and Numbers (87)	M	ID	1/2	Required				
		<table border="1"> <thead> <tr> <th><u>Code</u></th> <th><u>Name</u></th> </tr> </thead> <tbody> <tr> <td>GM</td> <td>UCC/EAN-128 Serial Shipping Container Code Format</td> </tr> </tbody> </table>	<u>Code</u>	<u>Name</u>	GM	UCC/EAN-128 Serial Shipping Container Code Format				
<u>Code</u>	<u>Name</u>									
GM	UCC/EAN-128 Serial Shipping Container Code Format									
MAN02	87	<b>Marks and Numbers</b> <b>Description:</b> Marks and numbers used to identify a shipment or parts of a shipment	M	AN	1/48	Required				

# HL Hierarchical Level - PACK

<b>Pos: 450</b>	<b>Max: 1</b>
<b>Detail - Mandatory</b>	
<b>Loop: HL - P</b>	<b>Elements: 4</b>

To identify dependencies among and the content of hierarchically related groups of data segments. Used to indicate the Pack/Carton hierarchical level.

**Comments:**

1. The HL segment is used to identify levels of detail information using a hierarchical structure, such as relating line-item data to shipment data, and packaging data to line-item data.
2. The HL segment defines a top-down/left-right ordered structure.
3. HL01 shall contain a unique alphanumeric number for each occurrence of the HL segment in the transaction set. For example, HL01 could be used to indicate the number of occurrences of the HL segment, in which case the value of HL01 would be "1" for the initial HL segment and would be incremented by one in each subsequent HL segment within the transaction.
4. HL02 identifies the hierarchical ID number of the HL segment to which the current HL segment is subordinate.
5. HL03 indicates the context of the series of segments following the current HL segment up to the next occurrence of an HL segment in the transaction. For example, HL03 is used to indicate that subsequent segments in the HL loop form a logical grouping of data referring to shipment, order, or item-level information.
6. HL04 indicates whether or not there are subordinate (or child) HL segments related to the current HL segment.

**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	<b>Hierarchical ID Number</b> <b>Description:</b> A unique number assigned by the sender to identify a particular data segment in a hierarchical structure	M	AN	1/12	Required				
HL02	734	<b>Hierarchical Parent ID Number</b> <b>Description:</b> 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	<b>Hierarchical Level Code</b> <b>Description:</b> Code defining the characteristic of a level in a hierarchical structure	M	ID	1/2	Required				
		<table border="0"> <thead> <tr> <th><u>Code</u></th> <th><u>Name</u></th> </tr> </thead> <tbody> <tr> <td>P</td> <td>Pack</td> </tr> </tbody> </table>	<u>Code</u>	<u>Name</u>	P	Pack				
<u>Code</u>	<u>Name</u>									
P	Pack									
HL04	736	<b>Hierarchical Child Code</b> <b>Description:</b> Code indicating if there are hierarchical child data segments subordinate to the level being described	O	ID	1/1	Used				

# MEA Measurements

Pos: 460	Max: 40
Detail - Optional	
Loop: HL - P	Elements: 4

To specify physical measurements or counts, including dimensions, tolerances, variances, and weights

## Syntax:

1. MEA03 R03050608 -- MEA03 is required.

## Semantics:

1. MEA04 defines the unit of measure for MEA03.

## 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>												
MEA01	737	<b>Measurement Reference ID Code</b> <b>Description:</b> Code identifying the broad category to which a measurement applies	O	ID	2/2	Used												
		<table border="1"> <thead> <tr> <th><u>Code</u></th> <th><u>Name</u></th> </tr> </thead> <tbody> <tr> <td>PA</td> <td>Pallet Dimensions</td> </tr> <tr> <td>PD</td> <td>Physical Dimensions</td> </tr> <tr> <td>PK</td> <td>Package Dimensions</td> </tr> </tbody> </table>	<u>Code</u>	<u>Name</u>	PA	Pallet Dimensions	PD	Physical Dimensions	PK	Package Dimensions								
<u>Code</u>	<u>Name</u>																	
PA	Pallet Dimensions																	
PD	Physical Dimensions																	
PK	Package Dimensions																	
MEA02	738	<b>Measurement Qualifier</b> <b>Description:</b> Code identifying a specific product or process characteristic to which a measurement applies	O	ID	1/3	Used												
		<table border="1"> <thead> <tr> <th><u>Code</u></th> <th><u>Name</u></th> </tr> </thead> <tbody> <tr> <td>HT</td> <td>Height</td> </tr> <tr> <td>LN</td> <td>Length</td> </tr> <tr> <td>SZ</td> <td>Skid Height</td> </tr> <tr> <td>WD</td> <td>Width</td> </tr> <tr> <td>WT</td> <td>Weight</td> </tr> </tbody> </table>	<u>Code</u>	<u>Name</u>	HT	Height	LN	Length	SZ	Skid Height	WD	Width	WT	Weight				
<u>Code</u>	<u>Name</u>																	
HT	Height																	
LN	Length																	
SZ	Skid Height																	
WD	Width																	
WT	Weight																	
MEA03	739	<b>Measurement Value</b> <b>Description:</b> The value of the measurement <b>User:</b> For all code values with the exception of the SZ qualifier, the measurement is a real decimal number. For the SZ qualifier use the integer portion of the skid height in inches.	C	R	1/20	Used												
MEA04	C001	<b>Composite Unit of Measure</b> <b>Description:</b> To identify a composite unit of measure(See Figures Appendix for examples of use)	C	Comp		Used												
	355	<b>Unit or Basis for Measurement Code</b> <b>Description:</b> Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken	M	ID	2/2	Required												
		<table border="1"> <thead> <tr> <th><u>Code</u></th> <th><u>Name</u></th> </tr> </thead> <tbody> <tr> <td>CM</td> <td>Centimeter</td> </tr> <tr> <td>E5</td> <td>Inches,Fraction--Actual</td> </tr> <tr> <td>E8</td> <td>Inches,Decimal--Actual</td> </tr> </tbody> </table>	<u>Code</u>	<u>Name</u>	CM	Centimeter	E5	Inches,Fraction--Actual	E8	Inches,Decimal--Actual								
<u>Code</u>	<u>Name</u>																	
CM	Centimeter																	
E5	Inches,Fraction--Actual																	
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<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
		KG Kilogram				
		LB Pound				
		OZ Ounce - Av				

# MAN Marks and Numbers

Pos: 470	Max: >1
Detail - Optional	
Loop: HL - P	Elements: 2

To indicate identifying marks and numbers for shipping containers

## 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	<b>Marks and Numbers Qualifier</b> <b>Description:</b> Code specifying the application or source of Marks and Numbers (87)	M	ID	1/2	Required				
		<table border="1"> <thead> <tr> <th><u>Code</u></th> <th><u>Name</u></th> </tr> </thead> <tbody> <tr> <td>GM</td> <td>UCC/EAN-128 Serial Shipping Container Code Format</td> </tr> </tbody> </table>	<u>Code</u>	<u>Name</u>	GM	UCC/EAN-128 Serial Shipping Container Code Format				
<u>Code</u>	<u>Name</u>									
GM	UCC/EAN-128 Serial Shipping Container Code Format									
MAN02	87	<b>Marks and Numbers</b> <b>Description:</b> Marks and numbers used to identify a shipment or parts of a shipment	M	AN	1/48	Required				



# HL Hierarchical Level - ITEM

<b>Pos: 480</b>	<b>Max: 1</b>
<b>Detail - Mandatory</b>	
<b>Loop: HL - I</b>	<b>Elements: 4</b>

To identify dependencies among and the content of hierarchically related groups of data segments. Used to indicate the Item hierarchical level.

### Comments:

1. The HL segment is used to identify levels of detail information using a hierarchical structure, such as relating line-item data to shipment data, and packaging data to line-item data.
2. The HL segment defines a top-down/left-right ordered structure.
3. HL01 shall contain a unique alphanumeric number for each occurrence of the HL segment in the transaction set. For example, HL01 could be used to indicate the number of occurrences of the HL segment, in which case the value of HL01 would be "1" for the initial HL segment and would be incremented by one in each subsequent HL segment within the transaction.
4. HL02 identifies the hierarchical ID number of the HL segment to which the current HL segment is subordinate.
5. HL03 indicates the context of the series of segments following the current HL segment up to the next occurrence of an HL segment in the transaction. For example, HL03 is used to indicate that subsequent segments in the HL loop form a logical grouping of data referring to shipment, order, or item-level information.
6. HL04 indicates whether or not there are subordinate (or child) HL segments related to the current HL segment.

### 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	<b>Hierarchical ID Number</b> <b>Description:</b> A unique number assigned by the sender to identify a particular data segment in a hierarchical structure	M	AN	1/12	Required				
HL02	734	<b>Hierarchical Parent ID Number</b> <b>Description:</b> 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	<b>Hierarchical Level Code</b> <b>Description:</b> Code defining the characteristic of a level in a hierarchical structure	M	ID	1/2	Required				
		<table border="0"> <thead> <tr> <th><u>Code</u></th> <th><u>Name</u></th> </tr> </thead> <tbody> <tr> <td>I</td> <td>Item</td> </tr> </tbody> </table>	<u>Code</u>	<u>Name</u>	I	Item				
<u>Code</u>	<u>Name</u>									
I	Item									
HL04	736	<b>Hierarchical Child Code</b> <b>Description:</b> Code indicating if there are hierarchical child data segments subordinate to the level being described	O	ID	1/1	Used				

# LIN Item Identification

Pos: 490	Max: 1
Detail - Optional	
Loop: HL - I	Elements: 5

To specify basic item identification data

### Syntax:

1. LIN04 P0405 -- If either LIN04 or LIN05 are present, then the others are required.
2. IN06 P0607 -- If either LIN06 or LIN07 are present, then the others are required.

### Semantics:

1. LIN01 is the line item identification

### Comments:

1. LIN02 through LIN07 provide for three different product/service IDs for each item.
2. There will be one occurrence for each line item. If the purchase order for the item is different than the default purchase order number specified in the Order level's segment; it must be specified here.

### 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	<b>Assigned Identification</b> <b>Description:</b> Alphanumeric characters assigned for differentiation within a transaction set	O	AN	1/20	Used										
LIN02	235	<b>Product/Service ID Qualifier</b> <b>Description:</b> Code identifying the type/source of the descriptive number used in Product/Service ID (234)	M	ID	2/2	Required										
		<table border="0"> <thead> <tr> <th><u>Code</u></th> <th><u>Name</u></th> </tr> </thead> <tbody> <tr> <td>AI</td> <td>Alternate ISBN</td> </tr> <tr> <td>IB</td> <td>International Standard Book Number (ISBN)</td> </tr> <tr> <td>EN</td> <td>(ISBN-13) – Effectively doubles the number of ISBNs available.</td> </tr> <tr> <td>UK</td> <td>UCC/EAN-14: Used when a leading digit is added to the ISBN- 13 that specifies the packaging level (such as a carton). When the packaging level is greater than a unit (such as a carton), a new check digit must be calculated.</td> </tr> </tbody> </table>	<u>Code</u>	<u>Name</u>	AI	Alternate ISBN	IB	International Standard Book Number (ISBN)	EN	(ISBN-13) – Effectively doubles the number of ISBNs available.	UK	UCC/EAN-14: Used when a leading digit is added to the ISBN- 13 that specifies the packaging level (such as a carton). When the packaging level is greater than a unit (such as a carton), a new check digit must be calculated.				
<u>Code</u>	<u>Name</u>															
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LIN03	234	<b>Product/Service ID</b> <b>Description:</b> Identifying number for a product or service	M	AN	1/40	Required										
LIN04	235	<b>Product/Service ID Qualifier</b> <b>Description:</b> Code identifying the type/source of the descriptive number used in Product/Service ID (234)	C	ID	2/2	Used										
		<table border="0"> <thead> <tr> <th><u>Code</u></th> <th><u>Name</u></th> </tr> </thead> <tbody> <tr> <td>AI</td> <td>Alternate ISBN</td> </tr> <tr> <td>IB</td> <td>International Standard Book Number (ISBN)</td> </tr> <tr> <td>EN</td> <td>(ISBN-13) – Effectively doubles the number of ISBNs available.</td> </tr> <tr> <td>UK</td> <td>UCC/EAN-14: Used when a leading digit is added to the ISBN- 13 that specifies the packaging level (such as a carton). When the packaging level is greater than a unit (such as a carton), a new check digit must be calculated.</td> </tr> </tbody> </table>	<u>Code</u>	<u>Name</u>	AI	Alternate ISBN	IB	International Standard Book Number (ISBN)	EN	(ISBN-13) – Effectively doubles the number of ISBNs available.	UK	UCC/EAN-14: Used when a leading digit is added to the ISBN- 13 that specifies the packaging level (such as a carton). When the packaging level is greater than a unit (such as a carton), a new check digit must be calculated.				
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# SN1 Item Detail (Shipment)

Pos: 500	Max: 1
Detail - Optional	
Loop: HL - I	Elements: 6

To specify line-item detail relative to shipment

**Syntax:**

- SN105 P0506 -- If either SN105 or SN106 are present, then the others are required.

**Semantics:**

- SN101 is the ship notice line-item identification.

**Comments:**

- SN103 defines the unit of measurement for both SN102 and SN104.

**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	<b>Assigned Identification</b> <b>Description:</b> Alphanumeric characters assigned for differentiation within a transaction set	O	AN	1/20	Used				
SN102	382	<b>Number of Units Shipped</b> <b>Description:</b> Numeric value of units shipped in manufacturer's shipping units for a line item or transaction set	M	R	1/10	Required				
SN103	355	<b>Unit or Basis for Measurement Code</b> <b>Description:</b> Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken	M	ID	2/2	Required				
		<table border="0"> <thead> <tr> <th><u>Code</u></th> <th><u>Name</u></th> </tr> </thead> <tbody> <tr> <td>UN</td> <td>Unit</td> </tr> </tbody> </table>	<u>Code</u>	<u>Name</u>	UN	Unit				
<u>Code</u>	<u>Name</u>									
UN	Unit									
SN104	646	<b>Quantity Shipped to Date</b> <b>Description:</b> Number of units shipped to date	O	R	1/9	Used				
SN105	330	<b>Quantity Ordered</b> <b>Description:</b> Quantity ordered	C	R	1/9	Used				
SN106	355	<b>Unit or Basis for Measurement Code</b> <b>Description:</b> Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken	C	ID	2/2	Used				
		<b>User:</b> Refer to code list specified in 'SN103' for usage.								

<u>Code</u>	<u>Name</u>
UN	Unit

# MEA Measurements

Pos: 520	Max: 40
Detail - Optional	
Loop: HL - I	Elements: 4

To specify physical measurements or counts, including dimensions, tolerances, variances, and weights

## Syntax:

1. MEA03 R03050608 -- MEA03 is required.

## Semantics:

1. MEA04 defines the unit of measure for MEA03.

## 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>														
MEA01	737	<b>Measurement Reference ID Code</b> <b>Description:</b> Code identifying the broad category to which a measurement applies	O	ID	2/2	Used														
		<table border="0"> <thead> <tr> <th><u>Code</u></th> <th><u>Name</u></th> </tr> </thead> <tbody> <tr> <td>PD</td> <td>Physical Dimensions</td> </tr> </tbody> </table>	<u>Code</u>	<u>Name</u>	PD	Physical Dimensions														
<u>Code</u>	<u>Name</u>																			
PD	Physical Dimensions																			
MEA02	738	<b>Measurement Qualifier</b> <b>Description:</b> Code identifying a specific product or process characteristic to which a measurement applies	O	ID	1/3	Used														
		<table border="0"> <thead> <tr> <th><u>Code</u></th> <th><u>Name</u></th> </tr> </thead> <tbody> <tr> <td>HT</td> <td>Height</td> </tr> <tr> <td>LN</td> <td>Length</td> </tr> <tr> <td>WD</td> <td>Width</td> </tr> <tr> <td>WT</td> <td>Weight</td> </tr> </tbody> </table>	<u>Code</u>	<u>Name</u>	HT	Height	LN	Length	WD	Width	WT	Weight								
<u>Code</u>	<u>Name</u>																			
HT	Height																			
LN	Length																			
WD	Width																			
WT	Weight																			
MEA03	739	<b>Measurement Value</b> <b>Description:</b> The value of the measurement <b>User:</b> For all code values with the exception of the SZ qualifier, the measurement is a real decimal number. For the SZ qualifier use the interger portion of the skid height in inches.	C	R	1/20	Used														
MEA04	C001	<b>Composite Unit of Measure</b> <b>Description:</b> To identify a composite unit of measure(See Figures Appendix for examples of use)	C	Comp		Used														
	355	<b>Unit or Basis for Measurement Code</b> <b>Description:</b> Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken	M	ID	2/2	Required														
		<table border="0"> <thead> <tr> <th><u>Code</u></th> <th><u>Name</u></th> </tr> </thead> <tbody> <tr> <td>CM</td> <td>Centimeter</td> </tr> <tr> <td>E5</td> <td>Inches,Fraction--Actual</td> </tr> <tr> <td>E8</td> <td>Inches,Decimal--Actual</td> </tr> <tr> <td>KG</td> <td>Kilogram</td> </tr> <tr> <td>LB</td> <td>Pound</td> </tr> <tr> <td>OZ</td> <td>Ounce - Av</td> </tr> </tbody> </table>	<u>Code</u>	<u>Name</u>	CM	Centimeter	E5	Inches,Fraction--Actual	E8	Inches,Decimal--Actual	KG	Kilogram	LB	Pound	OZ	Ounce - Av				
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E8	Inches,Decimal--Actual																			
KG	Kilogram																			
LB	Pound																			
OZ	Ounce - Av																			

# CUR Currency

Pos: 530	Max: 1
Detail - Optional	
Loop: HL - 1	Elements: 2

To specify the currency (dollars, pounds, francs, etc.) used in a transaction

## 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>				
CUR01	98	<b>Entity Identifier Code</b> <b>Description:</b> Code identifying an organizational entity, a physical location, or an individual	M	ID	2/2	Required				
		<table border="1"> <thead> <tr> <th><u>Code</u></th> <th><u>Name</u></th> </tr> </thead> <tbody> <tr> <td>SE</td> <td>Selling Party</td> </tr> </tbody> </table>	<u>Code</u>	<u>Name</u>	SE	Selling Party				
<u>Code</u>	<u>Name</u>									
SE	Selling Party									
CUR02	100	<b>Currency Code</b> <b>Description:</b> Code (Standard ISO) for country in whose currency the charges are specified	M	ID	3/3	Required				

# CTT Transaction Totals

Pos: 530	Max: 1
Summary - Optional	
Loop: N/A	Elements: 2

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

**Comments:**

1. This segment is intended to provide hash totals to validate transaction completeness and correctness.

**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	<b>Number of Line Items</b> <b>Description:</b> Total number of line items in the transaction set	M	N0	1/6	Required
CTT02	347	<b>Hash Total</b> <b>Description:</b> 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

# SE Transaction Set Trailer

Pos: 540	Max: 1
Summary - Mandatory	
Loop: N/A	Elements: 2

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

**Comments:**

1. SE is the last segment of each transaction set.
2. SE02 must match the ST control number (ST02)

**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>
SE01	96	<b>Number of Included Segments</b> <b>Description:</b> Total number of segments included in a transaction set including ST and SE segments	M	N0	1/10	Required
SE02	329	<b>Transaction Set Control Number</b> <b>Description:</b> Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set	M	AN	4/9	Required