Verizon Logistics 856 Implementation Guide
ANSI Version 4010

856 Advanced Ship Notice
EDI Implementation Guide
Trading Partner Edition

ANSI Version 4010
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856 Ship Notice/Manifest

Functional Group ID=SH

Introduction:

This Standard for Use contains the format and establishes the data contents of the Ship Notice/Manifest Transaction Set (856) for use within the context of VERIZON Logistics's Electronic Data Interchange (EDI) environment. VERIZON Logistics uses the Ship Notice to communicate 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. VERIZON Logistics uses three fields to match the ship notice to the original purchase order; the purchase order number, the line item number, and the buyer's part number. 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.

Heading:

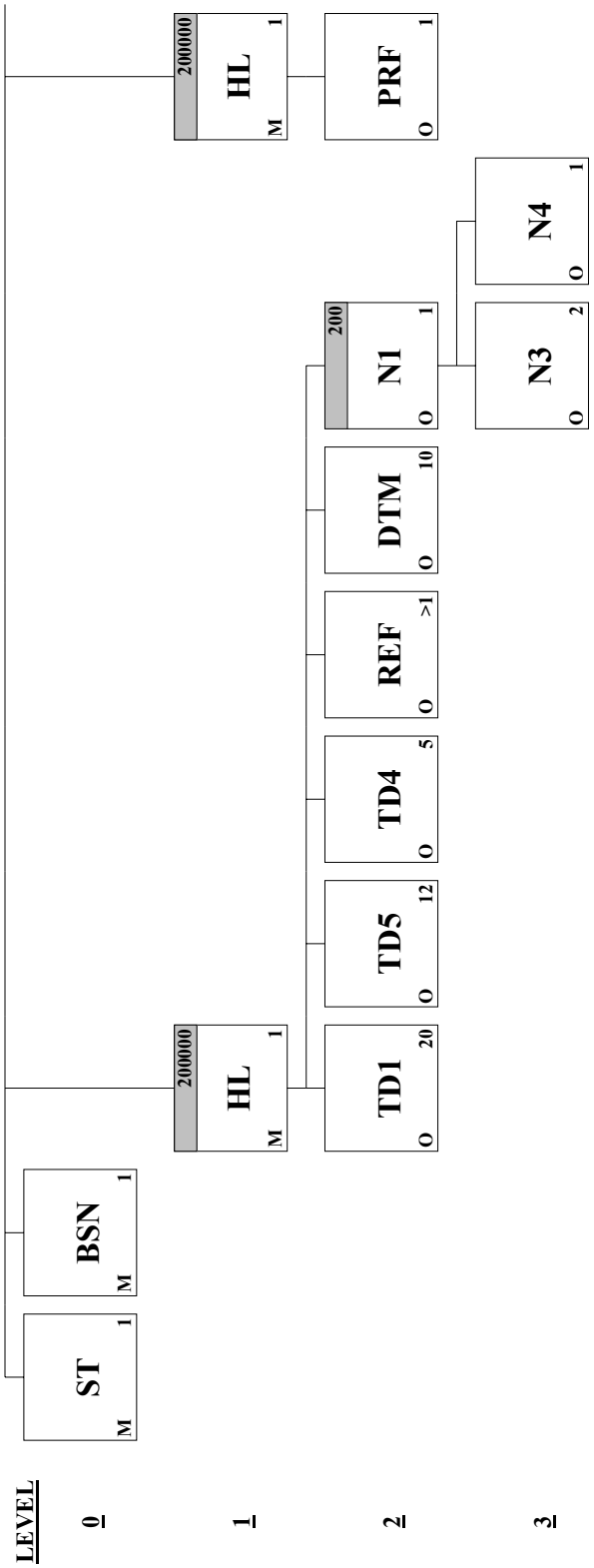
	Pos. No.	Seg. ID	Name	Req. Des.	Max.Use	Loop Repeat	Notes and Comments
M	010	ST	Transaction Set Header	M	1		
M	020	BSN	Beginning Segment for Ship Notice	M	1		

Detail:

	Pos. No.	Seg. ID	Name	Req. Des.	Max.Use	Loop Repeat	Notes and Comments
			LOOP ID - HL			200000	
M	010	HL	Hierarchical Level	M	1		c1
	110	TD1	Carrier Details (Quantity and Weight)	O	20		
	120	TD5	Carrier Details (Routing Sequence/Transit Time)	O	12		
	140	TD4	Carrier Details (Special Handling, or Hazardous Materials, or Both)	O	5		
	150	REF	Reference Identification	O	>1		
M	200	DTM	Date/Time Reference	M	10		
			LOOP ID - N1			200	
	220	N1	Name	O	1		
	240	N3	Address Information	O	2		
	250	N4	Geographic Location	O	1		
			LOOP ID - HL			200000	
M	010	HL	Hierarchical Level	M	1		c2
Must Use	050	PRF	Purchase Order Reference	O	1		
			LOOP ID - HL			200000	
M	010	HL	Hierarchical Level	M	1		c3
Must Use	020	LIN	Item Identification	O	1		
	030	SN1	Item Detail (Shipment)	O	1		

Summary:

	Pos. No.	Seg. ID	Name	Req. Des.	Max.Use	Loop Repeat	Notes and Comments
	010	CTT	Transaction Totals	O	1		n1
M	020	SE	Transaction Set Trailer	M	1		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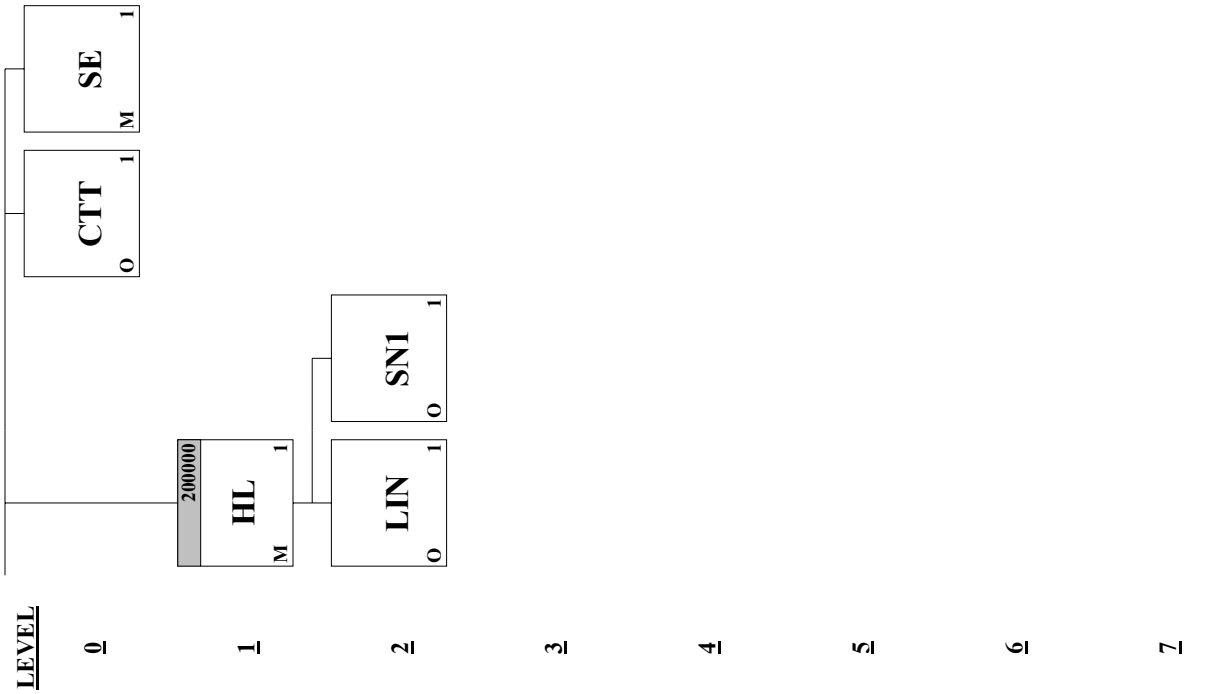
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Segment: **ST** **Transaction Set Header**
Position: 010
Loop:
Level: Heading
Usage: Mandatory
Max Use: 1
Purpose: To indicate the start of a transaction set and to assign a control number
Syntax Notes:
Semantic Notes: **1** The transaction set identifier (ST01) is used by the translation routines of the interchange partners to select the appropriate transaction set definition (e.g., 810 selects the Invoice Transaction Set).
Comments:
Notes: Example: ST*856*0008!

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
M	**ST01**	**143**	**Transaction Set Identifier Code** Code uniquely identifying a Transaction Set 856 Ship Notice/Manifest	**M ID 3/3**
M	**ST02**	**329**	**Transaction Set Control Number** 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**

Segment: **BSN** **Beginning Segment for Ship Notice**
Position: 020
Loop:
Level: Heading
Usage: Mandatory
Max Use: 1
Purpose: To transmit identifying numbers, dates, and other basic data relating to the transaction set
Syntax Notes: **1** If BSN07 is present, then BSN06 is required.
Semantic Notes: **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.
Comments: **1** BSN06 and BSN07 differentiate the functionality of use for the transaction set.
Notes: Example: BSN*00*SHIP02931092*19990712*1615!

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
M	**BSN01**	**353**	**Transaction Set Purpose Code** Code identifying purpose of transaction set 00 Original	**M**	**ID 2/2**
M	**BSN02**	**396**	**Shipment Identification** A unique control number assigned by the original shipper to identify a specific shipment	**M**	**AN 2/30**
M	**BSN03**	**373**	**Date** Date expressed as CCYYMMDD	**M**	**DT 8/8**
M	**BSN04**	**337**	**Time** 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**

Segment: **HL** **Hierarchical Level**
Position: 010
Loop: HL Mandatory
Level: Detail
Usage: Mandatory
Max Use: 1
Purpose: To identify dependencies among and the content of hierarchically related groups of data segments
Syntax Notes:
Semantic Notes:
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.
The HL segment defines a top-down/left-right ordered structure.

2 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.

3 HL02 identifies the hierarchical ID number of the HL segment to which the current HL segment is subordinate.

4 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.

5 HL04 indicates whether or not there are subordinate (or child) HL segments related to the current HL segment.

Notes: Example: HL*1**S!

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
M	**HL01**	**628**	**Hierarchical ID Number** A unique number assigned by the sender to identify a particular data segment in a hierarchical structure	**M AN 1/12**
M	**HL03**	**735**	**Hierarchical Level Code** Code defining the characteristic of a level in a hierarchical structure S Shipment	**M ID 1/2**

Segment: **TD1** **Carrier Details (Quantity and Weight)**
Position: 110
Loop: HL Mandatory
Level: Detail
Usage: Optional
Max Use: 20
Purpose: To specify the transportation details relative to commodity, weight, and quantity
Syntax Notes:
1 If TD101 is present, then TD102 is required.
2 If TD103 is present, then TD104 is required.
3 If TD106 is present, then TD107 is required.
4 If either TD107 or TD108 is present, then the other is required.
5 If either TD109 or TD110 is present, then the other is required.
Semantic Notes:
Comments:
Notes: Example: TD1******N*500*LB!

Data Element Summary

Ref. Des.	Data Element	Name	Attributes
TD106	**187**	**Weight Qualifier** Code defining the type of weight N Actual Net Weight	**O ID 1/1**
TD107	**81**	**Weight** Numeric value of weight	**X R 1/10**
TD108	**355**	**Unit or Basis for Measurement Code** Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken LB Pound	**X ID 2/2**

Segment: **TD5** **Carrier Details (Routing Sequence/Transit Time)**
Position: 120
Loop: HL Mandatory
Level: Detail
Usage: Optional
Max Use: 12
Purpose: To specify the carrier and sequence of routing and provide transit time information
Syntax Notes: **1** At least one of TD502 TD504 TD505 TD506 or TD512 is required.
Semantic Notes: **1** TD515 is the country where the service is to be performed.
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.
Notes: Example:
TD5*****ROUTING INFORMATION*******3D|

Data Element Summary

Ref. Des.	Data Element	Name	Attributes
TD502	**66**	**Identification Code Qualifier** Code Designating the system/method of code structure used for Identification Code (67) **NOTE:** Do not send TD502/TD503 if sending TD505 **2** **Standard Carrier Alpha Code (SCAC)**	**X ID 1/2**
TD503	**67**	Identification Code Standard Code from SCAC Code List **Note:** Do not send TD502/TD503 if sending TD505	**X AN 2/80**
TD505	**387**	**Routing** Free-form description of the routing or requested routing for shipment, or the originating carrier's identity. **Note:** Do not send TD505 if sending TD502/TD503	**X AN 1/30**
TD512	**284**	**Service Level Code** Code indicating the level of transportation service or the billing service offered by the transportation carrier 3D Three Day Service G2 Standard Service ON Overnight SC Second Day Air -- Delivery during business day hours no later than second business day	**X ID 2/2**

Segment: **TD4** **Carrier Details (Special Handling, or Hazardous Materials, or Both)**
Position: 140
Loop: HL Mandatory
Level: Detail
Usage: Optional
Max Use: 5
Purpose: To specify transportation special handling requirements, or hazardous materials information, or both
Syntax Notes:
1 At least one of TD401 TD402 or TD404 is required.
2 If TD402 is present, then TD403 is required.
Semantic Notes:
1 TD405 identifies if a Material Safety Data Sheet (MSDS) exists for this product. A "Y" indicates an MSDS exists for this product; an "N" indicates an MSDS does not exist for this product.
Comments:
Notes:

Example:
TD4**9*AC!
TD4**9*PS!
TD4**9*SN!

Data Element Summary

Ref. Des.	Data Element	Name	Attributes
TD402	**208**	**Hazardous Material Code Qualifier** Code which qualifies the Hazardous Material Class Code (209) 9 Title 49, Code of Federal Regulations (CFR)	**X ID 1/1**
TD403	**209**	**Hazardous Material Class Code** Code specifying the kind of hazard for a material	**X AN 1/4**

Segment: **REF** **Reference Identification**
Position: 150
Loop: HL Mandatory
Level: Detail
Usage: Optional
Max Use: >1
Purpose: To specify identifying information
Syntax Notes:
1 At least one of REF02 or REF03 is required.
2 If either C04003 or C04004 is present, then the other is required.
3 If either C04005 or C04006 is present, then the other is required.
Semantic Notes:
1 REF04 contains data relating to the value cited in REF02.
Comments:
Notes:

Example:
REF*BM*Bill of Lading Number!
REF*CN*Pro number!

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
M	**REF01**	**128**	**Reference Identification Qualifier** Code qualifying the Reference Identification BM Bill of Lading Number CN Carrier's Reference Number (PRO/Invoice)	**M**	**ID 2/3**
M	**REF02**	**127**	**Reference Identification** Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier When REF01 = BM; Bill of Lading Number When REF01 = CN; PRO/Invoice Number	**M**	**AN 1/30**

Segment: **DTM** **Date/Time Reference**
Position: 200
Loop: HL Mandatory
Level: Detail
Usage: Mandatory
Max Use: 10
Purpose: To specify pertinent dates and times
Syntax Notes: **1** At least one of DTM02 DTM03 or DTM05 is required.
Semantic Notes:
Comments:
Notes: Example:DTM*011*19990712!

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
M	**DTM01**	**374**	**Date/Time Qualifier** Code specifying type of date or time, or both date and time 011 Shipped	**M**	**ID 3/3**
	DTM02	**373**	**Date** Date expressed as CCYYMMDD	**X**	**DT 8/8**

Segment: **N1** **Name**
Position: 220
Loop: N1 Optional
Level: Detail
Usage: Optional
Max Use: 1
Purpose: To identify a party by type of organization, name, and code
Syntax Notes: **1** At least one of N102 or N103 is required.
2 If either N103 or N104 is present, then the other is required.
Semantic Notes:
Comments: **1** 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.
2 N105 and N106 further define the type of entity in N101.
Notes: Example: N1*ST*ARTHUR JONES*92*9012345918341!

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
M	**N101**	**98**	**Entity Identifier Code** Code identifying an organizational entity, a physical location, property or an individual ST Ship To	**M**	**ID 2/3**
	N102	**93**	**Name** Free-form name Ship-to Name	**X**	**AN 1/26**
	N103	**66**	**Identification Code Qualifier** Code designating the system/method of code structure used for Identification Code (67) 92 Assigned by Buyer or Buyer's Agent	**X**	**ID 1/2**
	N104	**67**	**Identification Code** Code identifying a party or other code Ship-to Number	**X**	**AN 2/30**

Segment: **N3** **Address Information**
Position: 240
Loop: N1 Optional
Level: Detail
Usage: Optional
Max Use: 2
Purpose: To specify the location of the named party
Syntax Notes:
Semantic Notes:
Comments:
Notes: Example: N3*PO BOX 123*157 WEST 57TH STREET!

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
M	**N301**	**166**	**Address Information** Address information First Address Line	**M**	**AN 1/26**
	N302	**166**	**Address Information** Address information Second Address Line	**O**	**AN 1/26**

Segment: **N4** **Geographic Location**
Position: 250
Loop: N1 Optional
Level: Detail
Usage: Optional
Max Use: 1
Purpose: To specify the geographic place of the named party
Syntax Notes: **1** If N406 is present, then N405 is required.
Semantic Notes:
Comments: **1** A combination of either N401 through N404, or N405 and N406 may be adequate to specify a location.
2 N402 is required only if city name (N401) is in the U.S. or Canada.
Notes: Example: N4*CINCINNATI*OH*43017!

Data Element Summary

Ref. Des.	Data Element	Name	Attributes
N401	**19**	**City Name** Free-form text for city name	**O AN 2/21**
N402	**156**	**State or Province Code** Code (Standard State/Province) as defined by appropriate government agency	**O ID 2/2**
N403	**116**	**Postal Code** Code defining international postal zone code excluding punctuation and blanks (zip code for United States)	**O ID 3/9**

Segment: **HL** **Hierarchical Level**
Position: 010
Loop: HL Mandatory
Level: Detail
Usage: Mandatory
Max Use: 1
Purpose: To identify dependencies among and the content of hierarchically related groups of data segments
Syntax Notes:
Semantic Notes:
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.
The HL segment defines a top-down/left-right ordered structure.

2 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.

3 HL02 identifies the hierarchical ID number of the HL segment to which the current HL segment is subordinate.

4 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.

5 HL04 indicates whether or not there are subordinate (or child) HL segments related to the current HL segment.

Notes: Example: HL*2**O!

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
M	**HL01**	**628**	**Hierarchical ID Number** A unique number assigned by the sender to identify a particular data segment in a hierarchical structure	**M**	**AN 1/12**
	HL02	**734**	**Hierarchical Parent ID Number** Identification number of the next higher hierarchical data segment that the data segment being described is subordinate to	**O**	**AN 1/12**
M	**HL03**	**735**	**Hierarchical Level Code** Code defining the characteristic of a level in a hierarchical structure O Order	**M**	**ID 1/2**

Segment: **PRF** **Purchase Order Reference**
Position: 050
Loop: HL Mandatory
Level: Detail
Usage: Optional (Must Use)
Max Use: 1
Purpose: To provide reference to a specific purchase order
Syntax Notes:
Semantic Notes: **1** PRF04 is the date assigned by the purchaser to purchase order.
Comments:

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
M	**PRF01**	**324**	**Purchase Order Number**	**M**	**AN 1/20**
			Identifying number for Purchase Order assigned by the orderer/purchaser		
			VL Purchase Order Number		
	PRF04	**373**	**Date**	**O**	**DT 8/8**
			Date expressed as CCYYMMDD		

Segment: **HL** **Hierarchical Level**
Position: 010
Loop: HL Mandatory
Level: Detail
Usage: Mandatory
Max Use: 1
Purpose: To identify dependencies among and the content of hierarchically related groups of data segments
Syntax Notes:
Semantic Notes:
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.
The HL segment defines a top-down/left-right ordered structure.

2 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.

3 HL02 identifies the hierarchical ID number of the HL segment to which the current HL segment is subordinate.

4 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.

5 HL04 indicates whether or not there are subordinate (or child) HL segments related to the current HL segment.

Notes: Example: HL*3**I!

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
M	**HL01**	**628**	**Hierarchical ID Number** A unique number assigned by the sender to identify a particular data segment in a hierarchical structure	**M**	**AN 1/12**
	HL02	**734**	**Hierarchical Parent ID Number** Identification number of the next higher hierarchical data segment that the data segment being described is subordinate to	**O**	**AN 1/12**
M	**HL03**	**735**	**Hierarchical Level Code** Code defining the characteristic of a level in a hierarchical structure I Item	**M**	**ID 1/2**

Segment: **LIN** **Item Identification**
Position: 020
Loop: HL Mandatory
Level: Detail
Usage: Optional (Must Use)
Max Use: 1
Purpose: To specify basic item identification data
Syntax Notes: **1** If either LIN04 or LIN05 is present, then the other is required.
Semantic Notes: **1** LIN01 is the line item identification
Comments: **1** See the Data Dictionary for a complete list of IDs.
2 LIN02 through LIN31 provide for fifteen different product/service IDs for each item. For example: Case, Color, Drawing No., U.P.C. No., ISBN No., Model No., or SKU.

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
Must Use	**LIN01**	**350**	**Assigned Identification** Alphanumeric characters assigned for differentiation within a transaction set The original line item number from the PO is required to match the ship notice with the PO.	**O**	**AN 1/6**
M	**LIN02**	**235**	**Product/Service ID Qualifier** Code identifying the type/source of the descriptive number used in Product/Service ID (234) The BP qualifier is required and is recommended for LIN02. BP Buyer's Part Number VN Vendor's (Seller's) Item Number	**M**	**ID 2/2**
M	**LIN03**	**234**	**Product/Service ID** Identifying number for a product or service When LIN02 = VN; Vendor Part Number When LIN02 = BP; Buyer's Part Number - the buyer's part number is required in order to match the ship notice with the original PO and is recommended in the LIN03.	**M**	**AN 1/30**
	LIN04	**235**	**Product/Service ID Qualifier** Code identifying the type/source of the descriptive number used in Product/Service ID (234) BP Buyer's Part Number VN Vendor's (Seller's) Item Number	**X**	**ID 2/2**
	LIN05	**234**	**Product/Service ID** Identifying number for a product or service When LIN02 = VN; Vendor Part Number When LIN02 = BP; Buyer's Part Number	**X**	**AN 1/30**

Segment: **SN1** **Item Detail (Shipment)**
Position: 030
Loop: HL Mandatory
Level: Detail
Usage: Optional
Max Use: 1
Purpose: To specify line-item detail relative to shipment
Syntax Notes: **1** If either SN105 or SN106 is present, then the other is required.
Semantic Notes: **1** SN101 is the ship notice line-item identification.
Comments: **1** SN103 defines the unit of measurement for both SN102 and SN104.
Notes: Example: SN1**100*DP!

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
M	**SN102**	**382**	**Number of Units Shipped** Numeric value of units shipped in manufacturer's shipping units for a line item or transaction set	**M R 1/10**
M	**SN103**	**355**	**Unit or Basis for Measurement Code** Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken Refer to 004010 Data Element Dictionary for acceptable code values.	**M ID 2/2**

Segment: **CTT** **Transaction Totals**
Position: 010
Loop:
Level: Summary
Usage: Optional
Max Use: 1
Purpose: To transmit a hash total for a specific element in the transaction set
Syntax Notes: **1** If either CTT03 or CTT04 is present, then the other is required.
2 If either CTT05 or CTT06 is present, then the other is required.
Semantic Notes:
Comments: **1** This segment is intended to provide hash totals to validate transaction completeness and correctness.
Notes: Example: CTT*10*855!

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
M	**CTT01**	**354**	**Number of Line Items** Total number of line items in the transaction set Line Item Count	**M N0 1/6**
	CTT02	**347**	**Hash Total** 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. Total Quantity Shipped	**O R 1/7**

Segment: **SE** **Transaction Set Trailer**
Position: 020
Loop:
Level: Summary
Usage: Mandatory
Max Use: 1
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)
Syntax Notes:
Semantic Notes:
Comments: **1** SE is the last segment of each transaction set.
Notes: Example: SE*19*0008!

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
M	**SE01**	**96**	**Number of Included Segments** Total number of segments included in a transaction set including ST and SE segments	**M N0 1/10**
M	**SE02**	**329**	**Transaction Set Control Number** 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**