856 Ship Notice/Manifest Transaction Set
(Vendor)

Introduction:
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.

General Interface Information:
EDI transactions are communicated via SFTP or AS2.
The EDI specifications included are based on ANSI X-12 4010 EDI standards.
Specifications legend:
Required indicator values:
   M = Mandatory
   O = Optional
   C = Conditional
Type values:
   ID = Identifier
   AN = Alphanumeric
   DT = Date (YYYYMMDD)
   R = Regular number (include explicit decimal)
   N# = Numeric (implicit decimals). E.g. N0 = whole number, no decimals. N2 = implicit decimal, precision two.
Field lengths are noted as minimum/maximum

Functional Group = SH

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 SHIPMENT LEVEL					**1**		
010	HL	Hierarchical Level – Shipment	M	1		N2/010	Must use
110	TD1	Carrier Details (Quantity and Weight)	M	1			Must use
120	TD5	Carrier Details (Routing	M	1			Must use

		Sequence/Transit Time)					
150	REF	Reference Information	M	1			Must use
200	DTM	Date/Time Reference	O	10			Used
LOOP ID – N1					**1000**		
220	N1	Name	M	1			Used
240	N3	Address Information	M	1			Used
250	N4	Geographic Location	M	1			Used
LOOP ID – HL ORDER LEVEL					**104**		
010	HL	Hierarchical Level – Order	M	1			Must use
050	PRF	Purchase Order Reference	M	1			Must use
110	TD1	Carrier Details (Quantity and Weight)	O	1			Used
120	TD5	Carrier Details (Routing Sequence/Transit Time)	O	1			Used
LOOP ID – HL MARKS LEVEL							
010	HL	Hierarchical Level – Order	M	1			Must use
190	MAN	Marks and Numbers	M	>1			Must Use
LOOP ID – HL ITEM LEVEL							
010	HL	Hierarchical Level - Item	M	1	N/A		Must use
020	LIN	Item Identification	M	1	N/A		Must use
030	SN1	Item Detail (Shipment)	M	1	N/A		Must use
060	PO4	Item Physical Details	O	1	N/A		Used
150	REF	Reference Identification	O	>1			Used
200	DTM	Date/Time Reference	O	10			Used

Summary:

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

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Segment:	**ST Transaction Set Header**
Position:	010
Loop ID:	N/A
Level:	Heading
Usage:	Mandatory
Max Use:	1
Purpose:	To indicate the start of a transaction set and to assign a control number
Semantic Notes:	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).

Data Element Summary

Segment	Data Element	Element Title	Req	Type	Length	Usage	Values/Comments
ST01	143	Transaction Set Identifier Code	M	ID	3/3	Must use	
		Code uniquely identifying a Transaction Set					
ST02	329	Transaction Set Control Number	M	AN	4/9	Must use	
		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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Segment:	**BSN** Beginning Segment for Ship Notice
Position:	020
Loop ID:	N/A
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.

Data Element Summary

Segment	Data Element	Element Title	Req	Type	Length	Usage	Values/Comments
BSN01	353	Transaction Set Purpose Code	M	ID	2/2	Must use	
		Code identifying purpose of transaction set					
BSN02	396	Shipment Identification	M	AN	2/30	Must use	
		A unique control number assigned by the original shipper to identify a specific shipment					
BSN03	373	Date	M	DT	8/8	Must use	
		Date expressed as CCYYMMDD					
BSN04	337	Time	M	TM	4/8	Must use	
		Date expressed as CCYYMMDD					
BSN05	1005	Hierarchical Structure Code	O	ID	4/4	Used	
		Code indicating the hierarchical application structure of a transaction set that utilizes the HL segment to define the structure of the transaction set					

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Segment:	**HL** Hierarchical Level - Shipment
Position:	010
Loop ID:	HL
Level:	Detail
Usage:	Mandatory
Max Use:	1
Purpose:	To identify dependencies among and the content of hierarchically related groups of data segments
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 lineitem 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.

Data Element Summary

Segment	Data Element	Element Title	Req	Type	Length	Usage	Values/Comments
HL01	628	Hierarchical ID Number	M	AN	1/12	Must use	
		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	
		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	
		Code defining the characteristic of a level in a hierarchical structure					
HL04	736	Hierarchical Child Code	O	ID	1/1	Used	
		Code indicating if there are hierarchical child data segments subordinate					

		to the level being described	

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Segment:	**TD1** Carrier Details (Quantity and Weight)
Position:	110
Loop ID:	HL
Level:	Detail
Usage:	Mandatory
Max Use:	20
Purpose:	To specify the transportation details relative to commodity, weight, and quantity

Data Element Summary

Segment	Data Element	Element Title	Req	Type	Length	Usage	Values/Comments
TD101	103	Packing Code	M	AN	3/5	Must use	
		Code identifying the type of packaging					
TD102	80	Lading Quantity	M	N0	1/7	Must use	
		Number of units (pieces) of the lading commodity					
TD106	187	Weight Qualifier	M	ID	1/2	Must use	
		Code identifying type of weight					
TD107	81	Weight	M	R	1/10	Must use	
		Amount of weight					
TD108	355	Unit or Basis for Measurement	M	ID	2/2	Must use	
		Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken					

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Segment:	**TD5** Carrier Details (Routing Sequence/Transit Time)
Position:	120
Loop ID:	N/A
Level:	Heading
Usage:	Mandatory
Max Use:	12
Purpose:	To specify the carrier and sequence of routing and provide transit time information
Semantic Notes:	1. TD515 is the country where the service is to be performed. 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.

Data Element Summary

Segment	Data Element	Element Title	Req	Type	Length	Usage	Values/Comments
TD502	66	Identification Code Qualifier	O	ID	1/2	Must use	
		Code designating the system/method of code structure used for Identification Code (67)					
TD503	67	Identification Code	M	AN	2/80	Must use	2 - Standard Carrier Alpha Code
		SCAC of Carrier					
TD504	91	Transportation Method/Type	O	ID	½	Used	O – Ocean
		Code specifying the method or type of transportation for the shipment.					P – Private carrier (Used for Parcel) R – Rail LT – Less than truckload M – Motor (Used for Truckload)

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Segment:	**REF** Reference Identification
Position:	150
Loop ID:	HL
Level:	Detail
Usage:	Mandatory
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.
User Notes:	REF01: 1. CN or 2I (Tracking Number) is required. 2. BM (Bill of lading) required when applicable to the shipment

Data Element Summary

Segment	Data Element	Element Title	Req	Type	Length	Usage	Values/Comments
REF01	128	Reference Identification Qualifier	M	ID	2/3	Must use	2I – Tracking Number CN – PRO Number BM – Bill of Lading
		Code qualifying the Reference Identification					
REF02	127	Reference Identification	X	AN	1/30	Used	
		Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier					

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Segment:	**DTM** Date/Time Reference
Position:	200
Loop ID:	HL
Level:	Detail
Usage:	Optional
Max Use:	10
Purpose:	To specify pertinent dates and times.
Semantic Notes:	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.

Data Element Summary

Segment	Data Element	Element Title	Req	Type	Length	Usage	Values/Comments
DTM01	374	Date/Time Qualifier	M	ID	3/3	Must use	011 – Shipped
		Code specifying type of date or time or both date and time. All valid standard codes are used.					
DTM02	373	Date	C	DT	8/8	Used	
		Date expressed as CCYYMMDD					

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Segment:	**N1** Name
Position:	300
Loop ID:	N1
Level:	Heading
Usage:	Mandatory
Max Use:	1
Purpose:	To identify a party by type of organization, name, and code.
Comments:	1. N102 R0203 -- At least one of N102 or N103 is required. 2. N103 P0304 -- If either N103 or N104 are present, then the others are required. 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.
User Notes:	Ship from and Ship to addresses are required.

Data Element Summary

Segment	Data Element	Element Title	Req	Type	Length	Usage	Values/Comments
N101	98	Entity Identifier Code	M	ID	2/3	Must use	ST – Ship to SF – Ship from
		Code identifying an organizational entity, a physical location, property or an individual					
N102	93	Name	C	AN	1/60	Used	
		Free-form name					
N103	66	Identification Code Qualifier	C	ID	1/2	Used	ZZ – Mutually Defined 92 – Assigned by buyer
		Code designating the system/method of code structure used for Identification Code (67)					
N104	67	Identification Code	C	AN	2/80	Used	
		Code identifying a party or other code					

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Segment:	**N3** Address Information
Position:	320
Loop ID:	N1
Level:	Heading
Usage:	Mandatory
Max Use:	2
Purpose:	To specify the location of the named party
Comments:	

Data Element Summary

Segment	Data Element	Element Title	Req	Type	Length	Usage	Values/Comments
N301	166	Address Information	M	AN	1/55	Must use	
		Address information					
N302	166	Address Information	O	AN	1/55	Used	
		Address information					

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Segment:	**N4** Geographic Location
Position:	330
Loop ID:	N1
Level:	Heading
Usage:	Mandatory
Max Use:	1
Purpose:	To specify the geographic place of the named party
Comments:	1. A combination of either N401 through N404, or N405 and N406 may be adequate to specify location. 2. N402 is required only if city name (N401) is in the U.S. or Canada.

Data Element Summary

Segment	Data Element	Element Title	Req	Type	Length	Usage	Values/Comments
N401	19	City Name	M	AN	2/30	Used	
		Free-form text for city name					
N402	156	State or Province Code	M	ID	2/2	Used	
		Code (Standard State/Province) as defined by appropriate government agency					
N403	116	Postal Code	M	ID	3/15	Used	
		Code defining international postal zone code excluding punctuation and blanks (zip code for United States)					
N404	26	Country Code	M	ID	2/3	Used	
		Code identifying the country					

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Segment:	**HL** Hierarchical Level - Order
Position:	010
Loop ID:	HL
Level:	Detail
Usage:	Mandatory
Max Use:	1
Purpose:	To identify dependencies among and the content of hierarchically related groups of data segments
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 lineitem 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.

Data Element Summary

Segment	Data Element	Element Title	Req	Type	Length	Usage	Values/Comments
HL01	628	Hierarchical ID Number	M	AN	1/12	Must use	
		A unique number assigned by the sender to identify a particular data segment in a hierarchical structure					
HL02	734	Hierarchical Parent ID Number	M	AN	1/12	Used	
		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	
		Code defining the characteristic of a level in a hierarchical structure					
HL04	736	Hierarchical Child Code	O	ID	1/1	Used	
		Code indicating if there are hierarchical child data segments subordinate					

		to the level being described	

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

Data Element Summary

Segment	Data Element	Element Title	Req	Type	Length	Usage	Values/Comments
PRF01	324	Purchase Order Number	M	AN	1/22	Must use	
		Identifying number for Purchase Order assigned by the orderer/purchaser					
PRF04	373	Date	O	DT	8/8	Must use	
		Date expressed as CCYYMMDD					

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Segment:	**TD1** Carrier Details (Quantity and Weight)
Position:	110
Loop ID:	HL
Level:	Detail
Usage:	Optional
Max Use:	20
Purpose:	To specify the transportation details relative to commodity, weight, and quantity

Data Element Summary

Segment	Data Element	Element Title	Req	Type	Length	Usage	Values/Comments
TD101	103	Packing Code	M	AN	3/5	Must use	
		Code identifying the type of packaging					
TD102	80	Lading Quantity	M	N0	1/7	Must use	
		Number of units (pieces) of the lading commodity					
TD106	187	Weight Qualifier	M	ID	1/2	Must use	
		Code identifying type of weight					
TD107	81	Weight	M	R	1/10	Must use	
		Amount of weight					
TD108	355	Unit or Basis for Measurement	M	ID	2/2	Must use	
		Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken					

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Segment:	**TD5** Carrier Details (Routing Sequence/Transit Time)
Position:	120
Loop ID:	N/A
Level:	Heading
Usage:	Optional
Max Use:	12
Purpose:	To specify the carrier and sequence of routing and provide transit time information
Semantic Notes:	1. TD515 is the country where the service is to be performed. 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.

Data Element Summary

Segment	Data Element	Element Title	Req	Type	Length	Usage	Values/Comments
TD506	368	Shipment/Order Status Code	C	ID	2/2	Must use	
		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					

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Segment:	**HL** Hierarchical Level - Detail
Position:	010
Loop ID:	HL
Level:	Detail
Usage:	Mandatory
Max Use:	1
Purpose:	To identify dependencies among and the content of hierarchically related groups of data segments
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 lineitem 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.

Data Element Summary

Segment	Data Element	Element Title	Req	Type	Length	Usage	Values/Comments
HL01	628	Hierarchical ID Number	M	AN	1/12	Must use	
		A unique number assigned by the sender to identify a particular data segment in a hierarchical structure					
HL02	734	Hierarchical Parent ID Number	M	AN	1/12	Used	
		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	P - Pack
		Code defining the characteristic of a level in a hierarchical structure					

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Segment:	**MAN** Marks and Numbers
Position:	190
Loop ID:	HL
Level:	Detail
Usage:	Mandatory
Max Use:	>1
Purpose:	To indicate identifying marks and numbers for shipping containers
Syntax Notes:	1. P0405 - If either MAN04 or MAN05 is present, then the other is required. 2. C0605 - If MAN06 is present, then MAN05 is required.
Semantic Notes:	1. MAN01/MAN02 and MAN04/MAN05 may be used to identify two different marks and numbers assigned to thesame physical container. 2. When both MAN02 and MAN03 are used, MAN02 is the starting number of a sequential range and MAN03 isthe ending number of that range. 3. When both MAN05 and MAN06 are used, MAN05 is the starting number of a sequential range, and MAN06 isthe ending number of that range.
Comments:	1. When MAN01 contains code "UC" (U.P.C. Shipping Container Code) and MAN05/MAN06 contain a range ofID numbers, MAN03 is not used. The reason for this is that the U.P.C. Shipping Container code is the sameon every carton that is represented in the range in MAN05/MAN06. 2. MAN03 and/or MAN06 are only used when sending a range(s) of ID numbers. 3. When both MAN02/MAN03 and MAN05/MAN06 are used to send ranges of ID numbers, the integrity of thetwo ID numbers must be maintained.

Data Element Summary

Segment	Data Element	Element Title	Req	Type	Length	Usage	Values/Comments
MAN01	88	Marks and Numbers Qualifier	M	ID	1/2	Must use	CP – Carrier Package ID used for Dropship
		Code specifying the application or source of Marks and Numbers (87)					GM – SSCC required for ship to DC orders.
MAN02	87	Marks and Numbers	M	AN	1/12	Used	
		Marks and numbers used to identify a shipment or parts of a shipment					

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Segment:	**HL** Hierarchical Level - Item
Position:	010
Loop ID:	HL
Level:	Detail
Usage:	Mandatory
Max Use:	1
Purpose:	To identify dependencies among and the content of hierarchically related groups of data segments
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 lineitem 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.

Data Element Summary

Segment	Data Element	Element Title	Req	Type	Length	Usage	Values/Comments
HL01	628	Hierarchical ID Number	M	AN	1/12	Must use	
		A unique number assigned by the sender to identify a particular data segment in a hierarchical structure					
HL02	734	Hierarchical Parent ID Number	M	AN	1/12	Used	
		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	
		Code defining the characteristic of a level in a hierarchical structure					
HL04	736	Hierarchical Child Code	O	ID	1/1	Used	
		Code indicating if there are hierarchical child data segments subordinate					

		to the level being described	

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Segment:	**LIN** Item Identification
Position:	020
Loop ID:	HL
Level:	Detail
Usage:	Mandatory
Max Use:	1
Purpose:	To specify basic item identification data.
Syntax Notes:	If either LIN04 or LIN05 is present, then the other is required.
Semantic Notes:	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., UPC No., ISBN No., Model No., or SKU.

Data Element Summary

Segment	Data Element	Element Title	Req	Type	Length	Usage	Values/Comments
LIN01	350	Assigned Identification	O	AN	1/20	Used	Original PO Line Number
		Alphanumeric characters assigned for differentiation within a transaction set.					
LIN02	235	Product/Service ID Qualifier	M	ID	2/2	Must use	VN – Vendor's Item Number
		Code identifying the type/source of the descriptive number used in Product/Service ID (234).					
LIN03	234	Product/Service ID	M	AN	1/48	Must use	Vendor's Item Number
		Code defining the characteristic of a level in a hierarchical structure					

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Segment:	**SN1** Item Detail (Shipment)
Position:	030
Loop ID:	HL
Level:	Detail
Usage:	Mandatory
Max Use:	1
Purpose:	To specify line-item detail relative to shipment.
Semantic Notes:	SN101 is the ship notice line-item identification.
Comments:	SN103 defines the unit of measurement for both SN102 and SN104.

Data Element Summary

Segment	Data Element	Element Title	Req	Type	Length	Usage	Values/Comments
SN102	382	Number of Units Shipped	M	R	1/10	Must use	
		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	Should match UOM used on original purchase order
		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.*					

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Segment:	**PO4** Item Physical Details
Position:	060
Loop ID:	HL
Level:	Detail
Usage:	Optional
Max Use:	1
Purpose:	To specify the physical qualities, packaging, weights, and dimensions relating to the item
Syntax Notes:	1. If either PO402 or PO403 is present, then the other is required. 2. If PO405 is present, then PO406 is required. 3. If either PO406 or PO407 is present, then the other is required. 4. If either PO408 or PO409 is present, then the other is required. 5. If PO410 is present, then PO413 is required. 6. If PO411 is present, then PO413 is required. 7. If PO412 is present, then PO413 is required. 8. If PO413 is present, then at least one of PO410 PO411 or PO412 is required. 9. If PO417 is present, then PO416 is required. 10. If PO418 is present, then PO404 is required.
Semantic Notes:	1. PO415 is used to indicate the relative layer of this package or range of packages within the layers of packaging. Relative Position 1 (value R1) is the innermost package. 2. PO416 is the package identifier or the beginning package identifier in a range of identifiers. 3. PO417 is the ending package identifier in a range of identifiers. 4. PO418 is the number of packages in this layer.
Comments:	1. PO403 - The "Unit or Basis for Measure Code" in this segment position is for purposes of defining the pack (PO401) /size (PO402) measure which indicates the quantity in the inner pack unit. For example: If the carton contains 24 12-Ounce packages, it would be described as follows: Data element 356 = "24"; Data element 357 = "12"; Data element 355 = "OZ". 2. PO413 defines the unit of measure for PO410, PO411, and PO412.

Data Element Summary

Segment	Data Element	Element Title	Req	Type	Length	Usage	Values/Comments
PO401	356	Pack	O	N0	1/6	Used	
		The number of inner containers, or number of eaches if there are no inner containers, per outer container					
PO402	357	Size	X	R	1/8	Used	
		Size of supplier units in pack					
PO403	355	Unit or Basis for Measurement Code	X	ID	2/2	Used	

		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.*	

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Segment:	**REF** Reference Information
Position:	150
Loop ID:	HL
Level:	Detail
Usage:	Optional
Max Use:	> 1
Purpose:	To specify identifying information.
Syntax Notes:	1. R0203 - At least one of REF02 or REF03 is required.
Semantic Notes:	1. REF04 contains data relating to the value cited in REF02.

Data Element Summary

Segment	Data Element	Element Title	Req	Type	Length	Usage	Values/Comments
REF01	128	Reference Identification Qualifier	M	ID	2/3	Must use	LT – Lot Number SE – Serial Number
		Code uniquely identifying a Transaction Set					
REF02	127	Reference Identification	M	AN	1/30	Must use	
		Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier					

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Segment:	**DTM** Date/Time Reference
Position:	200
Loop ID:	HL
Level:	Detail
Usage:	Optional
Max Use:	10
Purpose:	To specify pertinent dates and times.
Semantic Notes:	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.

Data Element Summary

Segment	Data Element	Element Title	Req	Type	Length	Usage	Values/Comments
DTM01	374	Date/Time Qualifier	M	ID	3/3	Must use	036 – Expiration
		Code specifying type of date or time or both date and time. All valid standard codes are used.					
DTM02	373	Date	C	DT	8/8	Used	
		Date expressed as CCYYMMDD					

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Segment:	**CTT** Transaction Totals
Position:	010
Loop ID:	CTT
Level:	Summary
Usage:	Optional
Max Use:	1
Purpose:	To transmit a hash total for a specific element in the transaction set
Comments:	This segment is intended to provide hash totals to validate transaction completeness and correctness.

Data Element Summary

Segment	Data Element	Element Title	Req	Type	Length	Usage	Values/Comments
CTT01	354	Number of Line Items	M	N0	1/6	Must use	
		Total number of line items in the transaction set					

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Segment:	**SE** Transaction Set Trailer
Position:	030
Loop ID:	N/A
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)
Comments:	SE is the last segment of each transaction set.

Data Element Summary

Segment	Data Element	Element Title	Req	Type	Length	Usage	Values/Comments
SE01	96	Number of Included Segments	M	N0	1/10	Must use	
		Total number of segments included in a transaction set including ST and SE segments					
SE02	329	Monetary Amount	M	AN	4/9	Must use	
		Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set					