

Electronic Components Industry Association Guideline

EDI Transaction Set 856 Ship Notice/Manifest

X12 Version 4010

August 2013

ECIA's EDI Committee has reviewed this transaction set and made modifications that will benefit the electronics industry by simplifying the transaction focusing on industry specific needs.

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856 Ship Notice/Manifest

Functional Group ID=**SH**

Introduction:

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

Heading:

	<u>Pos. No.</u>	<u>Seg. ID</u>	<u>Name</u>	<u>Req. Des.</u>	<u>Max.Use</u>	<u>Loop Repeat</u>	<u>Notes and Comments</u>
Must Use	010	ST	Transaction Set Header	M	1		
Must Use	020	BSN	Beginning Segment for Ship Notice	M	1		
	030	DTM	Date/Time Reference	O	10		

Detail:

	<u>Pos. No.</u>	<u>Seg. ID</u>	<u>Name</u>	<u>Req. Des.</u>	<u>Max.Use</u>	<u>Loop Repeat</u>	<u>Notes and Comments</u>
LOOP ID - HL							200000
Must Use	010	HL	Hierarchical Level	M	1		c1
	020	MEA	Measurements	O	1		
	030	TD1	Carrier Details (Quantity and Weight)	O	1		
	040	TD5	Carrier Details (Routing Sequence/Transit Time)	O	1		
	060	REF	Reference Identification	O	4		
	070	PER	Administrative Communications Contact	O	1		
LOOP ID - N1							200
	080	N1	Name	O	1		
	090	N4	Geographic Location	O	1		
	100	REF	Reference Identification	O	1		
LOOP ID - HL							200000
Must Use	110	HL	Hierarchical Level	M	1		c2
	120	PRF	Purchase Order Reference	O	1		
LOOP ID - HL							200000
Must Use	130	HL	Hierarchical Level	M	1		c3
	140	LIN	Item Identification	O	1		
	150	SN1	Item Detail (Shipment)	O	1		
	160	REF	Reference Identification	O	1		
LOOP ID - CLD							200
	170	CLD	Load Detail	O	1		
	180	REF	Reference Identification	O	200		

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Summary:

	<u>Pos. No.</u>	<u>Seg. ID</u>	<u>Name</u>	<u>Req. Des.</u>	<u>Max.Use</u>	<u>Loop Repeat</u>	<u>Notes and Comments</u>
	010	CTT	Transaction Totals	O	1		n1
Must Use	020	SE	Transaction Set Trailer	M	1		

Transaction Set Notes

1. 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.

Transaction Set Comments

1. The HL segment is the only mandatory segment within the HL loop, and by itself, the HL segment has no meaning.
2. The HL segment is the only mandatory segment within the HL loop, and by itself, the HL segment has no meaning.
3. The HL segment is the only mandatory segment within the HL loop, and by itself, the HL segment has no meaning.

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:

Data Element Summary

<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
<u>Des.</u>	<u>Element</u>		
>>	ST01	143 Transaction Set Identifier Code Code uniquely identifying a Transaction Set Refer to 004010 Data Element Dictionary for acceptable code values.	M ID 3/3
>>	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.

Data Element Summary

Ref.	Data			
<u>Des.</u>	<u>Element</u>	<u>Name</u>		<u>Attributes</u>
>>	BSN01	353	Transaction Set Purpose Code Code identifying purpose of transaction set 00 Original	M ID 2/2
>>	BSN02	396	Shipment Identification A unique control number assigned by the original shipper to identify a specific shipment	M AN 2/30
>>	BSN03	373	Date Date expressed as CCYYMMDD	M DT 8/8
>>	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: **DTM** **Date/Time Reference**
Position: 030
Loop:
Level: Heading
Usage: Optional
Max Use: 10
Purpose: To specify pertinent dates and times
Syntax Notes: 1 If DTM04 is present, then DTM03 is required.
Semantic Notes:
Comments:

Data Element Summary

Ref.	Data			Attributes
<u>Des.</u>	<u>Element</u>	<u>Name</u>		
>> DTM01	374	Date/Time Qualifier		M ID 3/3
		Code specifying type of date or time, or both date and time		
		011 Shipped		
		017 Estimated Delivery		
DTM02	373	Date		O DT 8/8
		Date expressed as CCYYMMDD		
DTM03	337	Time		X TM 4/8
		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)		
DTM04	623	Time Code		O ID 2/2
		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		
		ED Eastern Daylight Time		
		ET Eastern Time		

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.

Data Element Summary

Ref.	Data	Name	Attributes
<u>Des.</u>	<u>Element</u>		
>>	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
>>	HL03	735 Hierarchical Level Code Code defining the characteristic of a level in a hierarchical structure S Shipment	M ID 1/2
	HL04	736 Hierarchical Child Code Code indicating if there are hierarchical child data segments subordinate to the level being described Refer to 004010 Data Element Dictionary for acceptable code values.	O ID 1/1

Segment: **MEA** Measurements
Position: 020
Loop: HL Mandatory
Level: Detail
Usage: Optional
Max Use: 1
Purpose: To specify physical measurements or counts, including dimensions, tolerances, variances, and weights (See Figures Appendix for example of use of C001)

- Syntax Notes:**
- 1 At least one of MEA03 MEA05 MEA06 or MEA08 is required.
 - 2 If MEA05 is present, then MEA04 is required.
 - 3 If MEA06 is present, then MEA04 is required.
 - 4 If MEA07 is present, then at least one of MEA03 MEA05 or MEA06 is required.
 - 5 Only one of MEA08 or MEA03 may be present.

Semantic Notes: 1 MEA04 defines the unit of measure for MEA03, MEA05, and MEA06.

Comments: 1 When citing dimensional tolerances, any measurement requiring a sign (+ or -), or any measurement where a positive (+) value cannot be assumed, use MEA05 as the negative (-) value and MEA06 as the positive (+) value.

Data Element Summary

Ref. Des.	Data Element	Name	Attributes
MEA01	737	Measurement Reference ID Code Code identifying the broad category to which a measurement applies PD Physical Dimensions	O ID 2/2
MEA02	738	Measurement Qualifier Code identifying a specific product or process characteristic to which a measurement applies G Gross Weight	O ID 1/3
MEA03	739	Measurement Value The value of the measurement	X R 1/20
MEA04	C001	Composite Unit of Measure To identify a composite unit of measure (See Figures Appendix for examples of use)	X
>> C00101	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	M ID 2/2

Segment: **TD1** Carrier Details (Quantity and Weight)

Position: 030

Loop: HL Mandatory

Level: Detail

Usage: Optional

Max Use: 1

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.

Semantic Notes:

Comments:

Data Element Summary

<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
<u>Des.</u>	<u>Element</u>		
TD101	103	Packaging Code Code identifying the type of packaging; Part 1: Packaging Form, Part 2: Packaging Material; if the Data Element is used, then Part 1 is always required	O AN 3/5
		AMM Ammo Pack	
		BOX Box	
		SKD Skid	
		90 Standard	
TD102	80	Lading Quantity Number of units (pieces) of the lading commodity	X N0 1/7
TD106	187	Weight Qualifier Code defining the type of weight	O ID 1/2
		G Gross Weight	
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	X ID 2/2
		LB Pound	

Segment: **TD5** Carrier Details (Routing Sequence/Transit Time)

Position: 040

Loop: HL Mandatory

Level: Detail

Usage: Optional

Max Use: 1

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

Syntax Notes: 1 If TD502 is present, then TD503 is required.

2 If TD507 is present, then TD508 is required.

3 If TD510 is present, then TD511 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.

Data Element Summary

<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
TD501	133	Routing Sequence Code Code describing the relationship of a carrier to a specific shipment movement O Origin Carrier (Air, Motor, or Ocean)	O ID 1/2
TD502	66	Identification Code Qualifier Code designating the system/method of code structure used for Identification Code (67) 2 Standard Carrier Alpha Code (SCAC)	O ID 1/2
TD503	67	Identification Code Code identifying a party or other code	X AN 2/80
TD504	91	Transportation Method/Type Code Code specifying the method or type of transportation for the shipment A Air AE Air Express LT Less Than Trailer Load (LTL) M Motor (Common Carrier)	O ID 1/2
TD505	387	Routing Free-form description of the routing or requested routing for shipment, or the originating carrier's identity	O AN 1/35
TD507	309	Location Qualifier Code identifying type of location OR Origin (Shipping Point)	O ID 1/2
TD508	310	Location Identifier Code which identifies a specific location	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 Refer to 004010 Data Element Dictionary for acceptable code values.	O ID 2/2

Segment: **REF** Reference Identification
Position: 060
Loop: HL Mandatory
Level: Detail
Usage: Optional
Max Use: 4
Purpose: To specify identifying information
Syntax Notes: 1 If either C04003 or C04004 is present, then the other is required.
 2 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:

Data Element Summary

Ref. Des.	Data Element	Name	Attributes
>> REF01	128	Reference Identification Qualifier	M ID 2/3
		Code qualifying the Reference Identification	
		AW Air Waybill Number	
		BM Bill of Lading Number	
		CN Carrier's Reference Number	
		FR Freight Bill Number	
		LS Bar-Coded Serial Number	
		PK Packing List Number	
REF02	127	Reference Identification	O AN 1/30
		Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	

Segment: **PER** Administrative Communications Contact
Position: 070
Loop: HL Mandatory
Level: Detail
Usage: Optional
Max Use: 1
Purpose: To identify a person or office to whom administrative communications should be directed
Syntax Notes:

- 1 If either PER03 or PER04 is present, then the other is required.
- 2 If either PER05 or PER06 is present, then the other is required.

Semantic Notes:
Comments:

Data Element Summary

Ref.	Data		Attributes
<u>Des.</u>	<u>Element</u>	<u>Name</u>	
>> PER01	366	Contact Function Code Code identifying the major duty or responsibility of the person or group named BD Buyer Name or Department	M ID 2/2
PER02	93	Name Free-form name	O AN 1/60
PER06	364	Communication Number Complete communications number including country or area code when applicable	X AN 1/80

Segment: **N1** Name
Position: 080
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.

Data Element Summary

Ref.	Data	Name	Attributes
<u>Des.</u>	<u>Element</u>		
>> N101	98	Entity Identifier Code Code identifying an organizational entity, a physical location, property or an individual MA Party for whom Item is Ultimately Intended SF Ship From ST Ship To SU Supplier/Manufacturer	M ID 2/3
N102	93	Name Free-form name	X AN 1/60
N103	66	Identification Code Qualifier Code designating the system/method of code structure used for Identification Code (67) 6 Plant Code 92 Assigned by Buyer or Buyer's Agent	X ID 1/2
N104	67	Identification Code Code identifying a party or other code	X AN 2/80

Segment: **N4 Geographic Location**
Position: 090
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.

Data Element Summary

<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
N401	19	City Name Free-form text for city name	O AN 2/30
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 3/15

Segment: **REF** Reference Identification
Position: 100
Loop: N1 Optional
Level: Detail
Usage: Optional
Max Use: 1
Purpose: To specify identifying information
Syntax Notes: 1 If either C04003 or C04004 is present, then the other is required.
 2 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:

Data Element Summary

Ref. Des.	Data Element	Name	Attributes
>> REF01	128	Reference Identification Qualifier Code qualifying the Reference Identification SF Ship From	M ID 2/3
REF02	127	Reference Identification Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier Ship Point	O AN 1/30

Segment: **HL** Hierarchical Level
Position: 110
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.

Data Element Summary

Ref.	Data	Name	Attributes
<u>Des.</u>	<u>Element</u>		
>>	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
>>	HL03	735 Hierarchical Level Code Code defining the characteristic of a level in a hierarchical structure O Order	M ID 1/2
	HL04	736 Hierarchical Child Code Code indicating if there are hierarchical child data segments subordinate to the level being described Refer to 004010 Data Element Dictionary for acceptable code values.	O ID 1/1

Segment: **PRF** Purchase Order Reference
Position: 120
Loop: HL Mandatory
Level: Detail
Usage: Optional
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.	Data		
<u>Des.</u>	<u>Element</u>	<u>Name</u>	<u>Attributes</u>
>> PRF01	324	Purchase Order Number Identifying number for Purchase Order assigned by the orderer/purchaser	M AN 1/22
PRF02	328	Release Number Number identifying a release against a Purchase Order previously placed by the parties involved in the transaction	O AN 1/30
PRF04	373	Date Date expressed as CCYYMMDD	O DT 8/8
PRF06	367	Contract Number Contract number	O AN 1/30

Segment: **HL** Hierarchical Level
Position: 130
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.

Data Element Summary

Ref.	Data	Name	Attributes
<u>Des.</u>	<u>Element</u>		
>>	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
>>	HL03	735 Hierarchical Level Code Code defining the characteristic of a level in a hierarchical structure I Item	M ID 1/2
	HL04	736 Hierarchical Child Code Code indicating if there are hierarchical child data segments subordinate to the level being described Refer to 004010 Data Element Dictionary for acceptable code values.	O ID 1/1

Segment: **LIN** Item Identification
Position: 140
Loop: HL Mandatory
Level: Detail
Usage: Optional
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.
- 2 If either LIN06 or LIN07 is present, then the other is required.
- 3 If either LIN08 or LIN09 is present, then the other is required.
- 4 If either LIN10 or LIN11 is present, then the other is required.
- 5 If either LIN12 or LIN13 is present, then the other is required.
- 6 If either LIN14 or LIN15 is present, then the other is required.
- 7 If either LIN16 or LIN17 is present, then the other is required.
- 8 If either LIN18 or LIN19 is present, then the other is required.
- 9 If either LIN20 or LIN21 is present, then the other is required.
- 10 If either LIN22 or LIN23 is present, then the other is required.
- 11 If either LIN24 or LIN25 is present, then the other is required.
- 12 If either LIN26 or LIN27 is present, then the other is required.
- 13 If either LIN28 or LIN29 is present, then the other is required.
- 14 If either LIN30 or LIN31 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
LIN01	350	Assigned Identification Alphanumeric characters assigned for differentiation within a transaction set	O AN 1/20
>> LIN02	235	Product/Service ID Qualifier Code identifying the type/source of the descriptive number used in Product/Service ID (234) "VP" or "BP" can be sent in either LIN02 or LIN04 with respective part numbers in LIN03 or LIN05 BP Buyer's Part Number VP Vendor's (Seller's) Part Number	M ID 2/2
>> LIN03	234	Product/Service ID Identifying number for a product or service	M AN 1/48
LIN04	235	Product/Service ID Qualifier Code identifying the type/source of the descriptive number used in Product/Service ID (234) "VP" or "BP" can be sent in either LIN02 or LIN04 with respective part numbers in LIN03 or LIN05 BP Buyer's Part Number VP Vendor's (Seller's) Part Number	X ID 2/2
LIN05	234	Product/Service ID Identifying number for a product or service	X AN 1/48
LIN06	235	Product/Service ID Qualifier Code identifying the type/source of the descriptive number used in Product/Service ID (234) CH Country of Origin Code EC Engineering Change Level	X ID 2/2

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		IN	Buyer's Item Number		
		MS	Military Specification (MILSPEC) Number		
		PC	Prime Contractor Part Number		
		SN	Serial Number		
LIN07	234	Product/Service ID		X	AN 1/48
		Identifying number for a product or service			
LIN08	235	Product/Service ID Qualifier		X	ID 2/2
		Code identifying the type/source of the descriptive number used in Product/Service ID (234)			
		CH	Country of Origin Code		
		EC	Engineering Change Level		
		IN	Buyer's Item Number		
		MS	Military Specification (MILSPEC) Number		
		PC	Prime Contractor Part Number		
		SN	Serial Number		
LIN09	234	Product/Service ID		X	AN 1/48
		Identifying number for a product or service			

Segment: **SN1** Item Detail (Shipment)
Position: 150
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.

Data Element Summary

Ref.	Data	Name	Attributes
<u>Des.</u>	<u>Element</u>		
>>	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
>>	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 EA Each	M ID 2/2
	SN104	646 Quantity Shipped to Date Number of units shipped to date	O R 1/15
	SN105	330 Quantity Ordered Quantity ordered	X R 1/15
	SN106	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 EA Each	X ID 2/2

Segment: **REF** Reference Identification

Position: 160

Loop: HL Mandatory

Level: Detail

Usage: Optional

Max Use: 1

Purpose: To specify identifying information

Syntax Notes: 1 If either C04003 or C04004 is present, then the other is required.

2 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:

Data Element Summary

Ref. Des.	Data Element	Name	Attributes
>> REF01	128	Reference Identification Qualifier Code qualifying the Reference Identification LT Lot Number	M ID 2/3
REF02	127	Reference Identification Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	O AN 1/30

Segment: **CLD** Load Detail
Position: 170
Loop: CLD Optional
Level: Detail
Usage: Optional
Max Use: 1
Purpose: To specify the number of material loads shipped

Syntax Notes:

Semantic Notes: 1 CLD05 is used to dimension the value given in CLD04.

Comments: 1 The CLD data segment may be used to provide information to aid in the preparation of move tags and/or bar coded labels.

Data Element Summary

Ref.	Data			
<u>Des.</u>	<u>Element</u>	<u>Name</u>	<u>Attributes</u>	
>>	CLD01	622	Number of Loads	M N0 1/5
			Number of customer-defined loads shipped by the supplier	
>>	CLD02	382	Number of Units Shipped	M R 1/10
			Numeric value of units shipped in manufacturer's shipping units for a line item or transaction set	
	CLD03	103	Packaging Code	O AN 3/5
			Code identifying the type of packaging; Part 1: Packaging Form, Part 2: Packaging Material; if the Data Element is used, then Part 1 is always required	
			BOX	Box
			90	Standard

Segment: **REF** Reference Identification
Position: 180
Loop: CLD Optional
Level: Detail
Usage: Optional
Max Use: 200
Purpose: To specify identifying information
Syntax Notes: 1 If either C04003 or C04004 is present, then the other is required.
 2 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:

Data Element Summary

Ref. Des.	Data Element	Name	Attributes
>> REF01	128	Reference Identification Qualifier Code qualifying the Reference Identification LS Bar-Coded Serial Number	M ID 2/3
REF02	127	Reference Identification Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	O AN 1/30

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:



Data Element Summary

Ref.	Data	Name	Attributes
Des.	Element		
>> CTT01	354	Number of Line Items Total number of line items in the transaction set	M N0 1/6
		Number of HL Loops	
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.	O R 1/10
		Total of all SN102 quantities in the transaction.	

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.

Data Element Summary

	<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
	<u>Des.</u>	<u>Element</u>		
>>	SE01	96	Number of Included Segments Total number of segments included in a transaction set including ST and SE segments	M N0 1/10
>>	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

APPENDIX

ISA|00| |00| |01|Sender ISA |01|Receiver ISA |110607|0027|U|00400|000029999|0|P|<
GS|SH|Sender GS|Receiver GS|20110607|0027|2049|X|004010
ST|856|0001
BSN|00|81035867|20110607|0027
DTM|011|20110606|2340|ED
HL|1||S|1
MEA|PD|G|37.8|LB
TD1|BOX90|9|||G|37.8|LB
TD5|O|||United Parcel Service
REF|BM|1Z9X26760104369278
REF|LS|81035867
N1|SE|Supplier Name
REF|VN|3021890665
REF|IT|0000182444
N1|SF|Ship from name
N4|City|St|zip
REF|SF|WC01
HL|2|1|I
LIN|04|VP|Vendor Part|CH|MX
SN1||9|EA|0|2000|EA
PRF|PO Nbr 12345|||20110412
PID|F|||Part Description
REF|LT|0
CLD|1|200|BOX90
REF|SQ|CARTON NBR 1
CLD|1|200|BOX90
REF|SQ|CARTON NBR 2
CLD|1|200|BOX90
REF|SQ|CARTON NBR 3
CLD|1|200|BOX90
REF|SQ|CARTON NBR 4
CLD|1|200|BOX90
REF|SQ|CARTON NBR 5
CLD|1|200|BOX90
REF|SQ|CARTON NBR 6
CLD|1|200|BOX90
REF|SQ|CARTON NBR 7
CLD|1|200|BOX90
REF|SQ|CARTON NBR 8
CLD|1|200|BOX90
REF|SQ|CARTON NBR 9
CTT|2|1800
SE|41|0001
GE|1|2049
IEA|1|000029999