856 - Ship Notice/Manifest

Author: Publication: DOT FOODS, INC. March 17, 2006

856 Ship Notice/Manifest

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.

Not Defined:

Pos	ld	Segment Name	Req	<u>Max Use</u>	Repeat	<u>Notes</u>	<u>Usage</u>
	ISA	Interchange Control Header	М	1			Used
	GS	Functional Group Header	М	1			Used
Heading:							
Pos	ld	Segment Name	<u>Req</u>	Max Use	<u>Repeat</u>	<u>Notes</u>	<u>Usage</u>
010	ST	Transaction Set Header	М	1			Must use
020	BSN	Beginning Segment for Ship Notice	М	1			Must use

Detail:

<u>Pos</u>	<u>ld</u>	Segment Name	<u>Req</u>	<u>Max Use</u>	<u>Repeat</u>	<u>Notes</u>	<u>Usage</u>
LOOP ID -	· HL				<u>200000</u>	<u>C2/010L</u>	
010	HL	Hierarchical Level	М	1		C2/010	Must use
110	TD1	Carrier Details (Quantity and Weight)	0	20			Used
120	TD5	Carrier Details (Routing Sequence/Transit Time)	М	12			Used
150	REF	Reference Identification	М	>1			Used
200	DTM	Date/Time Reference	Μ	10			Used
LOOP ID -	• <u>N1</u>				<u>200</u>		
220	N1	Name	М	1			Used
250	N4	Geographic Location	М	1			Used
LOOP ID -	• <u>N1</u>				<u>200</u>		
220	N1	Name	М	1			Used
250	N4	Geographic Location	М	1			Used
LOOP ID -	· HL				<u>200000</u>	<u>C2/010L</u>	
010	HL	Hierarchical Level	М	1		C2/010	Must use
050	PRF	Purchase Order Reference	М	1			Used
LOOP ID -	· HL				200000	<u>C2/010L</u>	
010	HL	Hierarchical Level	М	1		C2/010	Future
190	MAN	Marks and Numbers	0	>1			Future
LOOP ID -	· HL				200000	<u>C2/010L</u>	
010	HL	Hierarchical Level	М	1		C2/010	Must use
020	LIN	Item Identification	Μ	1			Used
030	SN1	Item Detail (Shipment)	Μ	1			Used
070	PID	Product/Item Description	Μ	200			Used
080	MEA	Measurements	С	40			Used

Pos	<u>ld</u>	Segment Name	<u>Req</u>	<u>Max Use</u>	<u>Repeat</u>	<u>Notes</u>	<u>Usage</u>
200	DTM	Date/Time Reference	0	10			Future
Summar	y:						
Pos	ld	Segment Name	Req	<u>Max Use</u>	Repeat	<u>Notes</u>	<u>Usage</u>
020	SE	Transaction Set Trailer	Μ	1			Must use
Not Defi	ned:						
Pos	ld	Segment Name	Req	<u>Max Use</u>	<u>Repeat</u>	<u>Notes</u>	<u>Usage</u>
	GE	Functional Group Trailer	М	1			Must use
	IEA	Interchange Control Trailer	М	1			Must use

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

ISA Interchange Control Header

User Option (Usage): Used

To start and identify an interchange of zero or more functional groups and interchange-related control segments

Element Summary:

<u>Ref</u>	ld	Element Name	Req	Туре	<u>Min/Max</u>	<u>Usage</u>	<u>Rep</u>
ISA01	l01	Authorization Information Qualifier	Μ	ID	2/2	Must use	1
		Description: Code to identify the type of information in the Authorization Information					
		Code Name					
		00 No Authorization Information Present (No Mear	ningful Info	rmation in I02)		
ISA02	102	Authorization Information	М	AN	10/10	Must use	1
		Description: Information used for additional identification or authorization of the interchange sender or the data in the interchange; the type of information is set by the Authorization Information Qualifier (I01)					
ISA03	103	Security Information Qualifier	Μ	ID	2/2	Must use	1
	Description: Code to identify the type of information in the Security Information						
		<u>Code</u> <u>Name</u>					
		00 No Security Information Present (No M	leaningfu	ıl Informati	on in 104)		
ISA04	104	Security Information	М	AN	10/10	Must use	1
		Description: This is used for identifying the security information about the interchange sender or the data in the interchange; the type of information is set by the Security Information Qualifier (I03)					
ISA05	105	Interchange ID Qualifier	М	ID	2/2	Must use	1
		Description: Qualifier to designate the system/method of code structure used to designate the sender or receiver ID element being qualified					
ISA06	106	Interchange Sender ID	М	AN	15/15	Must use	1
		Description: Identification code published by the sender for other parties to use as the receiver ID to route data to them; the sender always codes this value in the sender ID element					
ISA07	105	Interchange ID Qualifier	М	ID	2/2	Must use	1
		Description: Qualifier to designate the system/method of code structure used to designate the sender or receiver ID element being qualified					
		Code Name					
		08 UCC EDI Communications ID (Comm	ID)				

ISA08	107	Interchange Receiver ID	М	AN	15/15	Must use	1
		Description: Identification code published by the receiver of the data; When sending, it is used by the sender as their sending ID, thus other parties sending to them will use this as a receiving ID to route data to them Dot Foods: <i>9288030000</i>					
ISA09	108	Interchange Date	М	DT	6/6	Must use	1
		Description: Date of the interchange					
ISA10	109	Interchange Time	М	ТМ	4/4	Must use	1
		Description: Time of the interchange					
ISA11	I10	Interchange Control Standards Identifier	М	ID	1/1	Must use	1
		Description: Code to identify the agency responsible for the control standard used by the message that is enclosed by the interchange header and trailer All valid standard codes are used.					
ISA12	111	Interchange Control Version Number	М	ID	5/5	Must use	1
		Description: This version number covers the interchange control segments					
		CodeName00401Draft Standards for Trial Use Approved through October 1997	d for Pub	lication by	ASC X12 Proc	edures Review Board	ł
ISA13	112	Interchange Control Number	М	N0	9/9	Must use	1
		Description: A control number assigned by the interchange sender					
ISA14	113	Acknowledgment Requested	М	ID	1/1	Must use	1
		Description: Code sent by the sender to request an interchange acknowledgment (TA1)					
		CodeName0No Acknowledgment Requested					
ISA15	114	Usage Indicator	М	ID	1/1	Must use	1
		Description: Code to indicate whether data enclosed by this interchange envelope is test, production or information					
		CodeNamePProduction Data					
ISA16	I15	Component Element Separator	М		1/1	Must use	1
		Description: Type is not applicable; the component element separator is a delimiter and not a data element; this field provides the delimiter used to separate component data elements within a composite data structure; this value must be different than the data element separator and the segment terminator					

GS Functional Group Header

User Option (Usage): Used

To indicate the beginning of a functional group and to provide control information

Element Summary:

<u>Ref</u> GS01	<u>ld</u> 479	<u>Element Name</u> Functional Identifier Code	<u>Req</u> M	<u>Type</u> ID	<u>Min/Max</u> 2/2	<u>Usage</u> Must use	<u>Rер</u> 1
		Description: Code identifying a group of application related transaction sets					
		<u>Code</u> <u>Name</u> SH Ship Notice/Manifest (856)					
GS02	142	Application Sender's Code	М	AN	2/15	Must use	1
		Description: Code identifying party sending transmission; codes agreed to by trading partners					
GS03	124	Application Receiver's Code	М	AN	2/15	Must use	1
		Description: Code identifying party receiving transmission. Codes agreed to by trading partners Dot Foods: <i>9288030000</i>					
GS04	373	Date	М	DT	8/8	Must use	1
		Description: Date expressed as CCYYMMDD					
GS05	337	Time	М	ТМ	4/8	Must use	1
		Description: Time expressed in 24-hour clock time as follows: HHMM, or HHMMSS, or HHMMSSD, or HHMMSSDD, where H = hours (00-23), M = minutes (00-59), S = integer seconds (00-59) and DD = decimal seconds; decimal seconds are expressed as follows: D = tenths (0-9) and DD = hundredths (00-99)					
GS06	28	Group Control Number	М	N0	1/9	Must use	1
		Description: Assigned number originated and maintained by the sender					
GS07	455	Responsible Agency Code	М	ID	1/2	Must use	1
		Description: Code used in conjunction with Data Element 480 to identify the issuer of the standard					
		CodeNameXAccredited Standards Committee X12					
GS08	480	Version / Release / Industry Identifier Code	М	AN	1/12	Must use	1
		Description: Code indicating the version, release, subrelease, and industry identifier of the EDI standard being used, including					

Ref Id Element Name

<u>Req Type Min/Max</u>

<u>Rep</u>

<u>Element Name</u> the GS and GE segments; if code in DE455 in GS segment is X, then in DE 480 positions 1-3 are the version number; positions 4-6 are the release and subrelease, level of the version; and positions 7-12 are the industry or trade association identifiers (optionally assigned by user); if code in DE455 in GS segment is T, then other formats are allowed

Code Name

004010 Draft Standards Approved for Publication by ASC X12 Procedures Review Board through October 1997

Semantics:

- 1. GS04 is the group date.
- 2. GS05 is the group time.
- 3. The data interchange control number GS06 in this header must be identical to the same data element in the associated functional group trailer, GE02.

Comments:

1. A functional group of related transaction sets, within the scope of X12 standards, consists of a collection of similar transaction sets enclosed by a functional group header and a functional group trailer.

ST Transaction Set Header

User Option (Usage): Must use

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

Element Summary:

<u>Ref</u> ST01	<u>ld</u> 143	Element Name Transaction Set Identifier Code	<u>Req</u> M	<u>Type</u> ID	<u>Min/Max</u> 3/3	<u>Usage</u> Must use	<u>Rер</u> 1
		Description: Code uniquely identifying a Transaction Set					
		CodeName856Ship Notice/Manifest					
ST02	329	Transaction Set Control Number	М	AN	4/9	Must use	1
		Description: Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set					

Semantics:

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

BSN Beginning Segment for Ship Notice

User Option (Usage): Must use

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

Element Summary:

<u>Ref</u> BSN01	<u>ld</u> 353	<u>Element Name</u> Transaction Set Purpose Code	<u>Req</u> M	<u>Type</u> ID	<u>Min/Max</u> 2/2	<u>Usage</u> Must use	<u>Rер</u> 1
		Description: Code identifying purpose of transaction set					
		<u>Code</u> <u>Name</u> 00 Original					
BSN02	396	Shipment Identification	М	AN	2/30	Must use	1
		Description: A unique control number assigned by the original shipper to identify a specific shipment					
BSN03	373	Date	М	DT	8/8	Must use	1
		Description: Date expressed as CCYYMMDD					
BSN04	337	Time	М	ТМ	4/8	Must use	1
		Description: Time expressed in 24-hour clock time as follows: HHMM, or HHMMSS, or HHMMSSD, or HHMMSSDD, where H = hours (00-23), M = minutes (00-59), S = integer seconds (00-59) and DD = decimal seconds; decimal seconds are expressed as follows: D = tenths (0-9) and DD = hundredths (00-99)					
BSN05	1005	Hierarchical Structure Code	М	ID	4/4	Must use	1
		Description: Code indicating the hierarchical application structure of a transaction set that utilizes the HL segment to define the structure of the transaction set					

Code Name

0001 Shipment, Order, Packaging, Item

Syntax Rules:

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

Semantics:

- 1. BSN03 is the date the shipment transaction set is created.
- 2. BSN04 is the time the shipment transaction set is created.
- 3. BSN06 is limited to shipment related codes.

Comments:

1. BSN06 and BSN07 differentiate the functionality of use for the transaction set.

HL Hierarchical Level

User Option (Usage): Must use

To identify dependencies among and the content of hierarchically related groups of data segments

Element Summary:

<u>Ref</u> HL01	<u>ld</u> 628	<u>Element Name</u> Hierarchical ID Number	<u>Req</u> M	<u>Type</u> AN	<u>Min/Max</u> 1/12	<u>Usage</u> Must use	<u>Rер</u> 1
		Description: A unique number assigned by the sender to identify a particular data segment in a hierarchical structure					
HL02	734	Hierarchical Parent ID Number	0	AN	1/12	Used	1
		Description: Identification number of the next higher hierarchical data segment that the data segment being described is subordinate to					
HL03	735	Hierarchical Level Code	М	ID	1/2	Must use	1
		Description: Code defining the characteristic of a level in a hierarchical structure					

Code Name

S Shipment

- 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.

TD1 Carrier Details (Quantity and Weight)

User Option (Usage): Used

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

Element Summary:

<u>Ref</u> TD106	<u>ld</u> 187	<u>Element Name</u> Weight Qualifier	<u>Req</u> O	<u>Type</u> ID	<u>Min/Max</u> 1/2	<u>Usage</u> Used	<u>Rер</u> 1
		Description: Code defining the type of weight					
		Code Name G Gross Weight					
TD107	81	Weight	С	R	1/10	Used	1
		Description: Numeric value of weight					
TD108	355	Unit or Basis for Measurement Code	С	ID	2/2	Used	1
		Description: Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken					

Code Name

LB Pound

Syntax Rules:

1. C0102 - If TD101 is present, then TD102 is required.

2. C0304 - If TD103 is present, then TD104 is required.

3. C0607 - If TD106 is present, then TD107 is required.

4. P0708 - If either TD107 or TD108 is present, then the other is required.

5. P0910 - If either TD109 or TD110 is present, then the other is required.

TD5 Carrier Details (Routing Sequence/Transit Time)

User Option (Usage): Used

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

Element Summary:

<u>Ref</u> TD501	<u>ld</u> 133	Element Name Routing Sequence Code	<u>Req</u> O	<u>Type</u> ID	<u>Min/Max</u> 1/2	<u>Usage</u> Recommended	<u>Rер</u> 1
		Description: Code describing the relationship of a carrier to a specific shipment movement					
		CodeNameBOrigin/Delivery Carrier (Any Mode)					
TD502	66	Identification Code Qualifier	С	ID	1/2	Recommended	1
		Description: Code designating the system/method of code structure used for Identification Code (67)					
		CodeName2Standard Carrier Alpha Code (SCAC)					
TD503	67	Identification Code	С	AN	2/80	Recommended	1
		Description: Code identifying a party or other code					
TD504	91	Transportation Method/Type Code	М	ID	1/2	Must use	1
		Description: Code specifying the method or type of transportation for the shipment					
		CodeNameHCustomer PickupMMotor (Common Carrier)					
TD505	387	Routing	0	AN	1/35	Recommended	1
		Description: Free-form description of the routing or requested routing for shipment, or the originating carrier's identity					

Syntax Rules:

- 1. R0204050612 At least one of TD502, TD504, TD505, TD506 or TD512 is required.
- 2. C0203 If TD502 is present, then TD503 is required.
- 3. C0708 If TD507 is present, then TD508 is required.
- 4. C1011 If TD510 is present, then TD511 is required.
- 5. C1312 If TD513 is present, then TD512 is required.
- 6. C1413 If TD514 is present, then TD513 is required.
- 7. C1512 If TD515 is present, then TD512 is required.

Semantics:

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

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.

REF Reference Identification

User Option (Usage): Used

To specify identifying information

Element Summary:

<u>Ref</u> REF01	<u>ld</u> 128	Element Name Reference Identification Qualifier	<u>Req</u> M	<u>Type</u> ID	<u>Min/Max</u> 2/3	<u>Usage</u> Must use	<u>Rер</u> 1
		Description: Code qualifying the Reference Identification					
		CodeNameBMBill of Lading Number					
REF02	127	Reference Identification	С	AN	1/30	Must use	1
		Description: Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier					
Suntay D	ulaai						

Syntax Rules:

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

Semantics:

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

DTM Date/Time Reference

User Option (Usage): Used

To specify pertinent dates and times

Element Summary:

<u>Ref</u> DTM01	<u>ld</u> 374	<u>Element Name</u> Date/Time Qualifier	<u>Req</u> M	<u>Type</u> ID	<u>Min/Max</u> 3/3	<u>Usage</u> Must use	<u>Rер</u> 1
		Description: Code specifying type of date or time, or both date and time Dot Foods: <i>Can send either 011 or 067.</i>					
		CodeName011Shipped067Current Schedule Delivery					
DTM02	373	Date	С	DT	8/8	Must use	1
		Description: Date expressed as CCYYMMDD					
DTM03	337	Time	0	ТМ	4/8	Recommended	1
		Description: Time expressed in 24-hour clock time as follows: HHMM, or HHMMSS, or HHMMSSD, or HHMMSSDD, where H = hours (00-23), M = minutes (00-59), S = integer seconds (00-59) and DD = decimal seconds; decimal seconds are expressed as follows: D = tenths (0-9) and DD = hundredths (00-99)					
Syntax R							

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.

N1 Name

User Option (Usage): Used

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

Element Summary:

<u>Ref</u> N101	<u>ld</u> 98	<u>Element Name</u> Entity Identifier Code	<u>Req</u> M	<u>Type</u> ID	<u>Min/Max</u> 2/3	<u>Usage</u> Must use	<u>Rep</u> 1
		Description: Code identifying an organizational entity, a physical location, property or an individual					
		Code Name ST Ship To					
N102	93	Name	М	AN	1/60	Must use	1
		Description: Free-form name					
N103	66	Identification Code Qualifier	М	ID	1/2	Must use	1
		Description: Code designating the system/method of code structure used for Identification Code (67)					
		Code Name					
		9 D-U-N-S+4, D-U-N-S Number with Fo	ur Charao	cter Suffix			
N104	67	Identification Code	М	AN	2/80	Must use	1
		Description: Code identifying a party or other code					
• • • • •							

Syntax Rules:

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

- 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.

N4 Geographic Location

User Option (Usage): Used

To specify the geographic place of the named party

Element Summary:

<u>Ref</u> N401	<u>ld</u> 19	<u>Element Name</u> City Name	<u>Req</u> M	<u>Type</u> AN	<u>Min/Max</u> 2/30	<u>Usage</u> Must use	<u>Rер</u> 1
		Description: Free-form text for city name					
N402	156	State or Province Code	М	ID	2/2	Must use	1
		Description: Code (Standard State/Province) as defined by appropriate government agency					
N403	116	Postal Code	М	ID	3/15	Must use	1
		Description: Code defining international postal zone code excluding punctuation and blanks (zip code for United States)					

Syntax Rules:

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

- 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.

N1 Name

User Option (Usage): Used

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

Element Summary:

<u>R</u> N	<u>ef</u> 101	<u>Id</u> 98	<u>Element Name</u> Entity Identifier Code	<u>Req</u> M	<u>Type</u> ID	<u>Min/Max</u> 2/3	<u>Usage</u> Must use	<u>Rер</u> 1
			Description: Code identifying an organizational entity, a physical location, property or an individual					
			CodeNameSFShip From					
N	102	93	Name	М	AN	1/60	Must use	1
			Description: Free-form name					
N	103	66	Identification Code Qualifier	М	ID	1/2	Must use	1
			Description: Code designating the system/method of code structure used for Identification Code (67)					
			Code Name					
			9 D-U-N-S+4, D-U-N-S Number with Four	Charact	er Suffix			
N	104	67	Identification Code	М	AN	2/80	Must use	1
			Description: Code identifying a party or other code					
~								

Syntax Rules:

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

- 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.

N4 Geographic Location

User Option (Usage): Used

To specify the geographic place of the named party

Element Summary:

<u>Ref</u> N401	<u>ld</u> 19	<u>Element Name</u> City Name	<u>Req</u> M	<u>Type</u> AN	<u>Min/Max</u> 2/30	<u>Usage</u> Must use	<u>Rер</u> 1
		Description: Free-form text for city name					
N402	156	State or Province Code	М	ID	2/2	Must use	1
		Description: Code (Standard State/Province) as defined by appropriate government agency					
N403	116	Postal Code	М	ID	3/15	Must use	1
		Description: Code defining international postal zone code excluding punctuation and blanks (zip code for United States)					

Syntax Rules:

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

- 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.

HL Hierarchical Level

User Option (Usage): Must use

To identify dependencies among and the content of hierarchically related groups of data segments

Element Summary:

<u>Ref</u> HL01	<u>ld</u> 628	<u>Element Name</u> Hierarchical ID Number	<u>Req</u> M	<u>Type</u> AN	<u>Min/Max</u> 1/12	<u>Usage</u> Must use	<u>Rep</u> 1
		Description: A unique number assigned by the sender to identify a particular data segment in a hierarchical structure					·
HL02	734	Hierarchical Parent ID Number	0	AN	1/12	Used	1
		Description: Identification number of the next higher hierarchical data segment that the data segment being described is subordinate to					
HL03	735	Hierarchical Level Code	М	ID	1/2	Must use	1
		Description: Code defining the characteristic of a level in a hierarchical structure					

Code Name

O Order

- 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.

Loop: HL Elements: 2 User Option (Usage): Used To provide reference to a specific purchase order **Element Summary:** ld **Element Name** Min/Max Ref Req **Type** Usage <u>Rep</u> PRF01 324 **Purchase Order Number** AN 1/22 Must use Μ 1 **Description:** Identifying number for Purchase Order assigned by the orderer/purchaser PRF04 0 DT 373 Date 8/8 Used 1 Description: Date expressed as CCYYMMDD

Pos: 050

Detail - Mandatory

Max: 1

Semantics:

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

PRF Purchase Order Reference

HL	Hierarchical Level	Pos: 010	Max: 1
••		Loop: HL	Mandatory Elements: 3

User Option (Usage): Future

To identify dependencies among and the content of hierarchically related groups of data segments

Dot Foo Tare level Element	is optiona						
Ref	<u>ld</u>	Element Name	<u>Req</u>	<u>Type</u>	Min/Max	Usage	<u>Rep</u>
HL01	628	Hierarchical ID Number	М	AN	1/12	Must use	1
		Description: A unique number assigned by the sender to identify a particular data segment in a hierarchical structure					
HL02	734	Hierarchical Parent ID Number	0	AN	1/12	Used	1
		Description: Identification number of the next higher hierarchical data segment that the data segment being described is subordinate to					
HL03	735	Hierarchical Level Code	М	ID	1/2	Must use	1
		Description: Code defining the characteristic of a level in a hierarchical structure					

Code Name

T Shipping Tare

- 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.
- 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.

MAN Marks and Numbers

User Option (Usage): Future

To indicate identifying marks and numbers for shipping containers

Element Summary:

<u>Ref</u> MAN01	<u>ld</u> 88	<u>Element Name</u> Marks and Numbers Qualifier	<u>Req</u> M	<u>Type</u> ID	<u>Min/Max</u> 1/2	<u>Usage</u> Future	<u>Rер</u> 1
		Description: Code specifying the application or source of Marks and Numbers (87)					
		CodeNameGMSSCC-18 and Application Identifier					
MAN02	87	Marks and Numbers	М	AN	1/48	Future	1
		Description: Marks and numbers used to identify a shipment or parts of a shipment					

Syntax Rules:

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

Semantics:

- 1. MAN01/MAN02 and MAN04/MAN05 may be used to identify two different marks and numbers assigned to the same physical container.
- 2. When both MAN02 and MAN03 are used, MAN02 is the starting number of a sequential range and MAN03 is the ending number of that range.
- 3. When both MAN05 and MAN06 are used, MAN05 is the starting number of a sequential range, and MAN06 is the ending number of that range.

- 1. When MAN01 contains code "UC" (U.P.C. Shipping Container Code) and MAN05/MAN06 contain a range of ID numbers, MAN03 is not used. The reason for this is that the U.P.C. Shipping Container code is the same on 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 the two ID numbers must be maintained.

HL Hierarchical Level

User Option (Usage): Must use

To identify dependencies among and the content of hierarchically related groups of data segments

Element Summary:

<u>Ref</u> HL01	<u>ld</u> 628	<u>Element Name</u> Hierarchical ID Number	<u>Req</u> M	<u>Type</u> AN	<u>Min/Max</u> 1/12	<u>Usage</u> Must use	<u>Rep</u> 1
	020	Description: A unique number assigned by the sender to identify a particular data segment in a hierarchical structure	101	,	1/12	Wust use	I
HL02	734	Hierarchical Parent ID Number	0	AN	1/12	Used	1
		Description: Identification number of the next higher hierarchical data segment that the data segment being described is subordinate to					
HL03	735	Hierarchical Level Code	М	ID	1/2	Must use	1
		Description: Code defining the characteristic of a level in a hierarchical structure					

Code Name

P Pack

- 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.

LIN Item Identification

User Option (Usage): Used

To specify basic item identification data

Element Summary:

<u>Ref</u> LIN02	<u>ld</u> 235	<u>Element Name</u> Product/Service ID Qualifier	<u>Req</u> M	<u>Type</u> ID	<u>Min/Max</u> 2/2	<u>Usage</u> Must use	<u>Rep</u> 1
		Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234)					
		CodeNameUKU.P.C./EAN Shipping Container Code	(1-2-5-5-	1)			
LIN03	234	Product/Service ID	М	AN	1/48	Must use	1
		Description: Identifying number for a product or service					
		Dot Foods: 14 digit GTIN (SCC-14)					
LIN04	235	Product/Service ID Qualifier	0	ID	2/2	Future	1
		Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234)					
		Code Name LT Lot Number					
LIN05	234	Product/Service ID	0	AN	1/48	Future	1
		Description: Identifying number for a product or service					
LIN06	235	Product/Service ID Qualifier	0	ID	2/2	Future	1
		Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234)					
		<u>Code</u> <u>Name</u>					
		PJ Product Date Code (A code indicating	the perio	d during w	hich a product w	as manufactured.)	
LIN07	234	Product/Service ID	0	AN	1/48	Future	1
		Description: Identifying number for a product or service					
Syntax R	ules:						
1. P0405	- If either	LIN04 or LIN05 is present, then the other is req	uired.				
2. P0607	' - If either	LIN06 or LIN07 is present, then the other is req	uired.				
		LIN08 or LIN09 is present, then the other is req					
		LIN10 or LIN11 is present, then the other is req					
		LIN12 or LIN13 is present, then the other is req					
		LIN14 or LIN15 is present, then the other is req					
7. P1017	- ii eitner	LIN16 or LIN17 is present, then the other is req	ullea.				

- 8. P1819 If either LIN18 or LIN19 is present, then the other is required.
- 9. P2021 If either LIN20 or LIN21 is present, then the other is required.

- 10. P2223 If either LIN22 or LIN23 is present, then the other is required.
- 11. P2425 If either LIN24 or LIN25 is present, then the other is required.
- 12. P2627 If either LIN26 or LIN27 is present, then the other is required.
- 13. P2829 If either LIN28 or LIN29 is present, then the other is required.
- 14. P3031 If either LIN30 or LIN31 is present, then the other is required.

Semantics:

1. LIN01 is the line item identification

- 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.

SN1 Item Detail (Shipment)

User Option (Usage): Used

To specify line-item detail relative to shipment

Element Summary:

<u>Ref</u> SN102	<u>ld</u> 382	_	e <u>nt Name</u> per of Units Shipped	<u>Req</u> M	<u>Type</u> R	<u>Min/Max</u> 1/10	<u>Usage</u> Must use	<u>Rep</u> 1
		Descr shippe	ription: Numeric value of units ed in manufacturer's shipping units for item or transaction set					
SN103	355	Unit o	or Basis for Measurement Code	М	ID	2/2	Must use	1
		which	ription: Code specifying the units in a value is being expressed, or er in which a measurement has been					
		Code	Name					
		BG	Bag					
		CA	Case					
		DR	Drum					
		EA	Each					
		GA	Gallon					
		PA	Pail					
		ΤE	Tote					
Syntax Ru	ules:							

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

Semantics:

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

Comments:

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

PID Product/Item Description

User Option (Usage): Used

To describe a product or process in coded or free-form format

Element Summary:

<u>Ref</u> PID01	<u>ld</u> 349	<u>Element Name</u> Item Description Type	<u>Req</u> M	<u>Type</u> ID	<u>Min/Max</u> 1/1	<u>Usage</u> Must use	<u>Rер</u> 1
		Description: Code indicating the format of a description					
		<u>Code</u> <u>Name</u>					
		F Free-form					
PID05	352	Description	М	AN	1/80	Must use	1
		Description: A free-form description to clarify the related data elements and their content					

Syntax Rules:

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

Semantics:

- 1. Use PID03 to indicate the organization that publishes the code list being referred to.
- 2. PID04 should be used for industry-specific product description codes.
- 3. PID08 describes the physical characteristics of the product identified in PID04. A "Y" indicates that the specified attribute applies to this item; an "N" indicates it does not apply. Any other value is indeterminate.
- 4. PID09 is used to identify the language being used in PID05.

- 1. If PID01 equals "F", then PID05 is used. If PID01 equals "S", then PID04 is used. If PID01 equals "X", then both PID04 and PID05 are used.
- 2. Use PID06 when necessary to refer to the product surface or layer being described in the segment.
- 3. PID07 specifies the individual code list of the agency specified in PID03.

MEA	Measurements	Pos: 080 Detail - Con	Max: 40 ditional
		Loop: HL	Elements: 4

User Option (Usage): Used

To specify physical measurements or counts, including dimensions, tolerances, variances, and weights (See Figures Appendix for example of use of C001)

Dot Foods:

The MEA segment is required from suppliers who sell variable weight products.

Element Summary:

<u>Ref</u> MEA01	<u>ld</u> 737	<u>Element Name</u> Measurement Reference ID Code	<u>Req</u> C	<u>Type</u> ID	<u>Min/Max</u> 2/2	<u>Usage</u> Used	<u>Rер</u> 1
		Description: Code identifying the broad category to which a measurement applies					
		<u>Code</u> <u>Name</u> WT Weights					
MEA02	738	Measurement Qualifier	С	ID	1/3	Used	1
		Description: Code identifying a specific product or process characteristic to which a measurement applies					
		Code Name N Actual Net Weight					
MEA03	739	Measurement Value	С	R	1/20	Used	1
		Description: The value of the measurement					
MEA04	C001	Composite Unit of Measure	С	Comp		Used	1
		Description: To identify a composite unit of measure(See Figures Appendix for examples of use)					
	355	Unit or Basis for Measurement Code	М	ID	2/2	Must use	1
		Description: Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken					
		Code Name					

LB Pound

Syntax Rules:

- 1. R03050608 At least one of MEA03, MEA05, MEA06 or MEA08 is required.
- 2. C0504 If MEA05 is present, then MEA04 is required.
- 3. C0604 If MEA06 is present, then MEA04 is required.
- 4. L07030506 If MEA07 is present, then at least one of MEA03, MEA05 or MEA06 is required.
- 5. E0803 Only one of MEA08 or MEA03 may be present.

Semantics:

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.

DTM Date/Time Reference

User Option (Usage): Future

To specify pertinent dates and times

Dot Foods:

This DTM segment will be required in the future from suppliers who sell products with shelf life less than or equal to 180 days.

Element Summary:

<u>Ref</u> DTM01	<u>ld</u> 374	<u>Element Name</u> Date/Time Qualifier	<u>Req</u> M	<u>Type</u> ID	<u>Min/Max</u> 3/3	<u>Usage</u> Future	<u>Rер</u> 1
		Description: Code specifying type of date or time, or both date and time					
		Code Name					
		036 Expiration					
		208 Lot Number Expiration					
		405 Production					
		511 Shelf Life Expiration					
DTM02	373	Date	0	DT	8/8	Future	1
		Description: Date expressed as CCYYMMDD					

Syntax Rules:

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

SE Transaction Set Trailer

User Option (Usage): Must use

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

Element Summary:

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

Comments:

1. SE is the last segment of each transaction set.

GE Functional Group Trailer

User Option (Usage): Must use

To indicate the end of a functional group and to provide control information

Element Summary:

<u>Ref</u> GE01	<u>ld</u> 97	<u>Element Name</u> Number of Transaction Sets Included	<u>Req</u> M	<u>Type</u> N0	<u>Min/Max</u> 1/6	<u>Usage</u> Must use	<u>Rep</u>
GEUT	57	Description: Total number of transaction sets included in the functional group or interchange (transmission) group terminated by the trailer containing this data element	W	NU	1/0	wust use	I
GE02	28	Group Control Number	Μ	N0	1/9	Must use	1
		Description: Assigned number originated and maintained by the sender					

Semantics:

1. The data interchange control number GE02 in this trailer must be identical to the same data element in the associated functional group header, GS06.

Comments:

1. The use of identical data interchange control numbers in the associated functional group header and trailer is designed to maximize functional group integrity. The control number is the same as that used in the corresponding header.

IEA Interchange Control Trailer

User Option (Usage): Must use

To define the end of an interchange of zero or more functional groups and interchange-related control segments

Element Summary:

<u>Ref</u>	<u>ld</u>	Element Name	Req	Туре	<u>Min/Max</u>	<u>Usage</u>	<u>Rep</u>
IEA01	I16	Number of Included Functional Groups	М	N0	1/5	Must use	1
		Description: A count of the number of functional groups included in an interchange					
IEA02	l12	Interchange Control Number	М	NO	9/9	Must use	1
		Description: A control number assigned by the interchange sender					