856 Ship Notice/Manifest

Version: 007050 X12

Company: Dot Foods, Inc.

856   Ship Notice/Manifest

Functional Group=SH

Purpose: This X12 Transaction Set 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	Id	Segment Name	Req	Max Use	Repeat	Notes
	ISA	Interchange Control Header	M	1		
	GS	Functional Group Header	M	1		

Heading:

Pos	Id	Segment Name	Req	Max Use	Repeat	Notes
0100	ST	Transaction Set Header	M	1		
0200	BSN	Beginning Segment for Ship Notice	M	1		

Detail:

Pos	Id	Segment Name	Req	Max Use	Repeat	Notes
LOOP ID - HL					**200000**	**C2/0100L**
0100	HL	Hierarchical Level	M	1		
1100	TD1	Carrier Details (Quantity and Weight)	O	20		
1200	TD5	Carrier Details (Routing Sequence/Transit Time)	M	12		
1500	REF	Reference Information	M	>1		
2000	DTM	Date/Time Reference	M	10		
LOOP ID - N1					**200**	
2200	N1	Party Identification	M	1		
2400	N3	Party Location	O	2		
2500	N4	Geographic Location	M	1		
LOOP ID - N1					**200**	
2200	N1	Party Identification	M	1		
2400	N3	Party Location	O	2		
2500	N4	Geographic Location	M	1		
LOOP ID - HL					**200000**	**C2/0100L**
0100	HL	Hierarchical Level	M	1		
0500	PRF	Purchase Order Reference	M	1		
1100	TD1	Carrier Details (Quantity and Weight)	O	20		
LOOP ID - HL					**200000**	**C2/0100L**
0100	HL	Hierarchical Level	M	1		
1100	TD1	Carrier Details (Quantity and Weight)	O	20		
1900	MAN	Marks and Numbers Information	M	>1		
LOOP ID - HL					**200000**	**C2/0100L**
0100	HL	Hierarchical Level	M	1		
0200	LIN	Item Identification	M	1		
0300	SN1	Item Detail (Shipment)	M	1		
0700	PID	Product/Item Description	M	200		
0800	MEA	Measurements	C	40		
2000	DTM	Date/Time Reference	M	10		
2000	DTM	Date/Time Reference	M	10		
LOOP ID - N1					**200**	
2200	N1	Party Identification	C	1		
2300	N2	Additional Name Information	C	2		

| 2400 | N3 | Party Location | C | 2 | | |
| 2500 | N4 | Geographic Location | C | 1 | | |

Summary:

Pos	Id	Segment Name	Req	Max Use	Repeat	Notes
0100	CTT	Transaction Totals	O	1		N3/0100
0200	SE	Transaction Set Trailer	M	1		

Not Defined:

Pos	Id	Segment Name	Req	Max Use	Repeat	Notes
	GE	Functional Group Trailer	M	1		
	IEA	Interchange Control Trailer	M	1		

ISA — Interchange Control Header

	Pos:	Max: 1
	Not Defined - Mandatory	
	Loop: N/A	Elements: 16

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max
ISA01	I01	**Authorization Information Qualifier**	M	ID	2/2

Description: Code identifying the type of information in the Authorization Information

Code List Summary (Total Codes: 9, Included: 1)

Code	Name
00	No Authorization Information Present (No Meaningful Information in I02)

Ref	Id	Element Name	Req	Type	Min/Max
ISA02	I02	**Authorization Information**	M	AN	10/10

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)

Ref	Id	Element Name	Req	Type	Min/Max
ISA03	I03	**Security Information Qualifier**	M	ID	2/2

Description: Code identifying the type of information in the Security Information

Code List Summary (Total Codes: 2, Included: 1)

Code	Name
00	No Security Information Present (No Meaningful Information in I04)

Ref	Id	Element Name	Req	Type	Min/Max
ISA04	I04	**Security Information**	M	AN	10/10

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)

Ref	Id	Element Name	Req	Type	Min/Max
ISA05	I05	**Interchange ID Qualifier**	M	ID	2/2

Description: Code indicating the system/method of code structure used to designate the sender or receiver ID element being qualified
All valid standard codes are used. (Total Codes: 41)

Ref	Id	Element Name	Req	Type	Min/Max
ISA06	I06	**Interchange Sender ID**	M	AN	15/15

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
Dot Foods: *Partner Sender ID*

Ref	Id	Element Name	Req	Type	Min/Max
ISA07	I05	**Interchange ID Qualifier**	M	ID	2/2

Description: Code indicating the system/method of code structure used to designate the sender or receiver ID element being qualified

Code List Summary (Total Codes: 41, Included: 1)

Code	Name
ZZ	Mutually Defined

Ref	Id	Element Name	Req	Type	Min/Max
ISA08	I07	**Interchange Receiver ID**	M	AN	15/15

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: *ISA ID: DOTFDSEE*

Ref	Id	Element Name	Req	Type	Min/Max
ISA09	I08	**Interchange Date**	M	DT	6/6

Description: Date of the interchange

Ref	Id	Element Name	Req	Type	Min/Max
ISA10	I09	**Interchange Time**	M	TM	4/4

Description: Time of the interchange

Ref	Id	Element Name	Req	Type	Min/Max
ISA11	I65	**Repetition Separator**	M		1/1

Description: Type is not applicable; the repetition separator is a delimiter and not a data element; this field provides the delimiter used to separate repeated occurrences of a simple data element or a composite data structure; this value must be different than the data element separator, component element separator, and the segment terminator

| ISA12 | I11 | **Interchange Control Version Number Code** | M | ID | 5/5 |

Description: Code specifying the version number of the interchange control segments

Code List Summary (Total Codes: 38, Included: 1)

Code	Name
00705	Standards Approved for Publication by ASC X12 Procedures Review Board through December 2017

| ISA13 | I12 | **Interchange Control Number** | M | N0 | 9/9 |

Description: A control number assigned by the interchange sender

| ISA14 | I13 | **Acknowledgment Requested Code** | M | ID | 1/1 |

Description: Code indicating sender's request for an interchange acknowledgment

Code List Summary (Total Codes: 4, Included: 1)

Code	Name
0	No Interchange Acknowledgment Requested

| ISA15 | I14 | **Interchange Usage Indicator Code** | M | ID | 1/1 |

Description: Code indicating whether data enclosed by this interchange envelope is test, production or information

Code List Summary (Total Codes: 3, Included: 1)

Code	Name
P	Production Data

| ISA16 | I15 | **Component Element Separator** | M | | 1/1 |

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

Pos:	**Max: 1**
Not Defined - Mandatory	
Loop: N/A	**Elements: 8**

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max
GS01	479	**Functional Identifier Code**	M	ID	2/2

Description: Code identifying a group of application related transaction sets

Code List Summary (Total Codes: 262, Included: 1)

Code	Name
SH	Ship Notice/Manifest (856)

Ref	Id	Element Name	Req	Type	Min/Max
GS02	142	**Application Sender's Code**	M	AN	2/15

Description: Code identifying party sending transmission; codes agreed to by trading partners
Dot Foods: *Partner GS ID*

Ref	Id	Element Name	Req	Type	Min/Max
GS03	124	**Application Receiver's Code**	M	AN	2/15

Description: Code identifying party receiving transmission; codes agreed to by trading partners
Dot Foods: *GS ID: DOTFDSEE*

Ref	Id	Element Name	Req	Type	Min/Max
GS04	373	**Date**	M	DT	8/8

Description: Date expressed as CCYYMMDD where CC represents the first two digits of the calendar year

Ref	Id	Element Name	Req	Type	Min/Max
GS05	337	**Time**	M	TM	4/8

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)

Ref	Id	Element Name	Req	Type	Min/Max
GS06	28	**Group Control Number**	M	N0	1/9

Description: Assigned number originated and maintained by the sender

Ref	Id	Element Name	Req	Type	Min/Max
GS07	455	**Responsible Agency Code**	M	ID	1/2

Description: Code identifying the issuer of the standard; this code is used in conjunction with Data Element 480

Code List Summary (Total Codes: 2, Included: 1)

Code	Name
X	Accredited Standards Committee X12

Ref	Id	Element Name	Req	Type	Min/Max
GS08	480	**Version / Release / Industry Identifier Code**	M	AN	1/12

Description: Code indicating the version, release, subrelease, and industry identifier of the EDI standard being used, including 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 List Summary (Total Codes: 102, Included: 1)

Code	Name
007050	Standards Approved for Publication by ASC X12 Procedures Review Board through December 2017

ST   Transaction Set Header

Pos: 0100	**Max: 1**
Heading - Mandatory	
Loop: N/A	**Elements: 2**

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max
ST01	143	**Transaction Set Identifier Code**	M	ID	3/3

Description: Code identifying a Transaction Set

Code List Summary (Total Codes: 321, Included: 1)

Code	Name
856	Ship Notice/Manifest

Ref	Id	Element Name	Req	Type	Min/Max
ST02	329	**Transaction Set Control Number**	M	AN	4/9

Description: Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set

BSN	**Beginning Segment for Ship Notice**	Pos: 0200 Max: 1
		Heading - Mandatory
		Loop: N/A Elements: 5

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max
BSN01	353	**Transaction Set Purpose Code**	M	ID	2/2

Description: Code identifying purpose of transaction set

Code List Summary (Total Codes: 76, Included: 1)

Code	**Name**
00	Original

BSN02	396	**Shipment Identification**	M	AN	2/30

Description: A unique control number assigned by the original shipper to identify a specific shipment

BSN03	373	**Date**	M	DT	8/8

Description: Date expressed as CCYYMMDD where CC represents the first two digits of the calendar year
Dot Foods: *ASN Creation Date*

BSN04	337	**Time**	M	TM	4/8

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**	O	ID	4/4

Description: Code indicating the hierarchical application structure of a transaction set that utilizes the HL segment to define the structure of the transaction set
Dot Foods: *0008 = Shipment, Order, Tare, Pack*

Code List Summary (Total Codes: 83, Included: 1)

Code	**Name**
0008	Shipment, Order, Tare, Pack

HL   Hierarchical Level

Pos: 0100	**Max: 1**
Detail - Mandatory	
Loop: HL	**Elements: 2**

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max
HL01	628	**Hierarchical ID Number**	M	AN	1/12

Description: A unique number assigned by the sender to identify a particular data segment in a hierarchical structure

Ref	Id	Element Name	Req	Type	Min/Max
HL03	735	**Hierarchical Level Code**	M	ID	1/2

Description: Code specifying the characteristic of a level in a hierarchical structure

Code List Summary (Total Codes: 251, Included: 1)

Code	Name
S	Shipment

TD1

Carrier Details (Quantity and Weight)

Pos: 1100	**Max: 20**
Detail - Optional	
Loop: HL	**Elements: 5**

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max
TD101	103	**Packaging Code**	O	AN	3/5

Description: 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

Code List Summary - Part 1/2 (Total Codes: 163, Included: 2)

Code	Name
CTN	Carton
PLT	Pallet

Ref	Id	Element Name	Req	Type	Min/Max
TD102	80	**Lading Quantity**	X	N0	1/7

Description: Number of units (pieces) of the lading commodity

Ref	Id	Element Name	Req	Type	Min/Max
TD106	187	**Weight Qualifier**	O	ID	1/2

Description: Code specifying the type of weight

Code List Summary (Total Codes: 54, Included: 1)

Code	Name
G	Gross Weight

Ref	Id	Element Name	Req	Type	Min/Max
TD107	81	**Weight**	X	R	1/10

Description: Numeric value of weight

Ref	Id	Element Name	Req	Type	Min/Max
TD108	355	**Unit or Basis for Measurement Code**	X	ID	2/2

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

Code List Summary (Total Codes: 919, Included: 1)

Code	Name
LB	Pound

TD5 Carrier Details (Routing Sequence/Transit Time)

Pos: 1200   **Max: 12**
Detail - Mandatory
Loop: HL   **Elements: 5**

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max
TD501	133	**Routing Sequence Code**	O	ID	1/2

Description: Code specifying the relationship of a carrier to a specific shipment movement

Code List Summary (Total Codes: 24, Included: 1)

Code	**Name**
B	Origin/Delivery Carrier (Any Mode)

Ref	Id	Element Name	Req	Type	Min/Max
TD502	66	**Identification Code Qualifier**	O	ID	1/2

Description: Code specifying the system/method of code structure used for Identification Code (67)

Code List Summary (Total Codes: 258, Included: 1)

Code	**Name**
2	Standard Carrier Alpha Code (SCAC)

Ref	Id	Element Name	Req	Type	Min/Max
TD503	67	**Identification Code**	O	AN	2/80

Description: Code identifying a party or other code
Dot Foods: *SCAC*

Ref	Id	Element Name	Req	Type	Min/Max
TD504	91	**Transportation Method/Type Code**	M	ID	1/2

Description: Code specifying the method or type of transportation for the shipment

Code List Summary (Total Codes: 81, Included: 2)

Code	**Name**
H	Customer Pickup
M	Motor (Common Carrier)

Ref	Id	Element Name	Req	Type	Min/Max
TD505	387	**Routing**	O	AN	1/35

Description: Free-form description of the routing or requested routing for shipment, or the originating carrier's identity

REF   Reference Information

Pos: 1500	Max: >1
Detail - Mandatory	
Loop: HL	**Elements: 2**

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max
REF01	128	**Reference Identification Qualifier**	M	ID	2/3

Description: Code identifying the Reference Identification

Code List Summary (Total Codes: 1881, Included: 1)

Code	Name
BM	Bill of Lading Number

Ref	Id	Element Name	Req	Type	Min/Max
REF02	127	**Reference Identification**	M	AN	1/80

Description: Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier

Dot Foods: *Bill of Lading Number*

DTM   Date/Time Reference

<div style="border:1px solid black">

Pos: 2000   **Max: 10**
Detail - Mandatory
Loop: HL   **Elements: 3**

</div>

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max
DTM01	374	**Date/Time Qualifier**	M	ID	3/3

Description: Code specifying type of date or time, or both date and time

Code List Summary (Total Codes: 1332, Included: 2)

Code	Name
011	Shipped
067	Current Schedule Delivery

Ref	Id	Element Name	Req	Type	Min/Max
DTM02	373	**Date**	M	DT	8/8

Description: Date expressed as CCYYMMDD where CC represents the first two digits of the calendar year

Ref	Id	Element Name	Req	Type	Min/Max
DTM03	337	**Time**	O	TM	4/8

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)

N1   Party Identification

<table>
<tr><td>Pos: 2200</td><td>Max: 1</td></tr>
<tr><td colspan="2">Detail - Mandatory</td></tr>
<tr><td>Loop: N1</td><td>Elements: 4</td></tr>
</table>

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max
N101	98	**Entity Identifier Code**	M	ID	2/3

Description: Code identifying an organizational entity, a physical location, property or an individual

Code List Summary (Total Codes: 1538, Included: 1)

Code	**Name**
SF	Ship From

Ref	Id	Element Name	Req	Type	Min/Max
N102	93	**Name**	M	AN	1/60

Description: Free-form name

Ref	Id	Element Name	Req	Type	Min/Max
N103	66	**Identification Code Qualifier**	M	ID	1/2

Description: Code specifying the system/method of code structure used for Identification Code (67)

Code List Summary (Total Codes: 258, Included: 2)

Code	**Name**
9	D-U-N-S+4, D-U-N-S Number with Four Character Suffix
UL	Global Location Number (GLN)

Ref	Id	Element Name	Req	Type	Min/Max
N104	67	**Identification Code**	M	AN	2/80

Description: Code identifying a party or other code

Dot Foods: *DUNS+4 number (9) or GLN (UL)*

N3 Party Location

Pos: 2400	**Max: 2**
Detail - Optional	
Loop: N1	**Elements: 1**

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max
N301	166	**Address Information**	O	AN	1/55

Description: Address information

N4 Geographic Location

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max
N401	19	**City Name**	M	AN	2/30

Description: Free-form text for city name

Ref	Id	Element Name	Req	Type	Min/Max
N402	156	**State or Province Code**	M	ID	2/2

Description: Code specifying the Standard State/Province as defined by appropriate government agency

Ref	Id	Element Name	Req	Type	Min/Max
N403	116	**Postal Code**	M	ID	3/15

Description: Code specifying international postal zone code excluding punctuation and blanks (zip code for United States)

Ref	Id	Element Name	Req	Type	Min/Max
N404	26	**Country Code**	O	ID	2/3

Description: Code identifying the country

N1   Party Identification

Pos: 2200   **Max: 1**
Detail - Mandatory
Loop: N1   **Elements: 4**

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max
N101	98	**Entity Identifier Code**	M	ID	2/3

Description: Code identifying an organizational entity, a physical location, property or an individual

Code List Summary (Total Codes: 1538, Included: 1)

Code	Name
ST	Ship To

Ref	Id	Element Name	Req	Type	Min/Max
N102	93	**Name**	M	AN	1/60

Description: Free-form name

Ref	Id	Element Name	Req	Type	Min/Max
N103	66	**Identification Code Qualifier**	M	ID	1/2

Description: Code specifying the system/method of code structure used for Identification Code (67)

Code List Summary (Total Codes: 258, Included: 2)

Code	Name
9	D-U-N-S+4, D-U-N-S Number with Four Character Suffix
UL	Global Location Number (GLN)

Ref	Id	Element Name	Req	Type	Min/Max
N104	67	**Identification Code**	M	AN	2/80

Description: Code identifying a party or other code

Dot Foods: *DUNS+4 number (9) or GLN (UL)*

N3   Party Location

<table>
<tr><td>Pos: 2400</td><td>Max: 2</td></tr>
<tr><td colspan="2">Detail - Optional</td></tr>
<tr><td>Loop: N1</td><td>Elements: 1</td></tr>
</table>

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max
N301	166	**Address Information**	O	AN	1/55

Description: Address information

N4 Geographic Location

Pos: 2500   **Max: 1**
Detail - Mandatory
Loop: N1   Elements: 4

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max
N401	19	**City Name**	M	AN	2/30

     Description: Free-form text for city name

Ref	Id	Element Name	Req	Type	Min/Max
N402	156	**State or Province Code**	M	ID	2/2

     Description: Code specifying the Standard State/Province as defined by appropriate government agency

Ref	Id	Element Name	Req	Type	Min/Max
N403	116	**Postal Code**	M	ID	3/15

     Description: Code specifying international postal zone code excluding punctuation and blanks (zip code for United States)

Ref	Id	Element Name	Req	Type	Min/Max
N404	26	**Country Code**	O	ID	2/3

     Description: Code identifying the country

HL

Hierarchical Level

Pos: 0100   **Max: 1**
Detail - Mandatory
Loop: HL   **Elements: 3**

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max
HL01	628	**Hierarchical ID Number**	M	AN	1/12

Description: 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

Description: 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

Description: Code specifying the characteristic of a level in a hierarchical structure

Code List Summary (Total Codes: 251, Included: 1)

Code	Name
O	Order

PRF   Purchase Order Reference

Pos: 0500	Max: 1
Detail - Mandatory	
Loop: HL	**Elements: 2**

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max
PRF01	324	**Purchase Order Number**	M	AN	1/22

Description: Identifying number for Purchase Order assigned by the orderer/purchaser

Ref	Id	Element Name	Req	Type	Min/Max
PRF04	373	**Date**	M	DT	8/8

Description: Date expressed as CCYYMMDD where CC represents the first two digits of the calendar year

TD1 Carrier Details (Quantity and Weight)

Pos: 1100	**Max: 20**
Detail - Optional	
Loop: HL	**Elements: 5**

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max
TD101	103	**Packaging Code**	O	AN	3/5

Description: 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

Code List Summary - Part 1/2 (Total Codes: 163, Included: 2)

Code	Name
CTN	Carton
PLT	Pallet

Ref	Id	Element Name	Req	Type	Min/Max
TD102	80	**Lading Quantity**	X	N0	1/7

Description: Number of units (pieces) of the lading commodity

Ref	Id	Element Name	Req	Type	Min/Max
TD106	187	**Weight Qualifier**	O	ID	1/2

Description: Code specifying the type of weight

Code List Summary (Total Codes: 54, Included: 1)

Code	Name
G	Gross Weight

Ref	Id	Element Name	Req	Type	Min/Max
TD107	81	**Weight**	X	R	1/10

Description: Numeric value of weight

Ref	Id	Element Name	Req	Type	Min/Max
TD108	355	**Unit or Basis for Measurement Code**	X	ID	2/2

Description: Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken
All valid standard codes are used. (Total Codes: 919)

HL Hierarchical Level

<table>
<tr><td>Pos: 0100</td><td>Max: 1</td></tr>
<tr><td colspan="2" align="center">Detail - Mandatory</td></tr>
<tr><td>Loop: HL</td><td>Elements: 3</td></tr>
</table>

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max
HL01	628	**Hierarchical ID Number**	M	AN	1/12

Description: 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

Description: 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

Description: Code specifying the characteristic of a level in a hierarchical structure
Dot Foods: *T = Tare (Pallet)*

Code List Summary (Total Codes: 251, Included: 1)

Code	Name
T	Shipping Tare

TD1   Carrier Details (Quantity and Weight)

Pos: 1100	Max: 20
Detail - Optional	
Loop: HL	Elements: 5

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max
TD101	103	**Packaging Code**	O	AN	3/5

Description: 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

Code List Summary - Part 1/2 (Total Codes: 163, Included: 1)

Code	**Name**
CTN	Carton

Ref	Id	Element Name	Req	Type	Min/Max
TD102	80	**Lading Quantity**	X	N0	1/7

Description: Number of units (pieces) of the lading commodity

Dot Foods: *Number of Cases on the Pallet*

Ref	Id	Element Name	Req	Type	Min/Max
TD106	187	**Weight Qualifier**	O	ID	1/2

Description: Code specifying the type of weight

Code List Summary (Total Codes: 54, Included: 2)

Code	**Name**
G	Gross Weight
N	Actual Net Weight

Ref	Id	Element Name	Req	Type	Min/Max
TD107	81	**Weight**	X	R	1/10

Description: Numeric value of weight

Dot Foods: *Weight (Product + Pallet)*

Ref	Id	Element Name	Req	Type	Min/Max
TD108	355	**Unit or Basis for Measurement Code**	X	ID	2/2

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

Code List Summary (Total Codes: 919, Included: 1)

Code	**Name**
LB	Pound

MAN   Marks and Numbers Information

Pos: 1900	Max: >1
Detail - Mandatory	
Loop: HL	Elements: 2

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max
MAN01	88	**Marks and Numbers Qualifier**	M	ID	1/2

Description: Code specifying the application or source of Marks and Numbers (87)

Code List Summary (Total Codes: 31, Included: 1)

Code	Name
GM	EAN.UCC Serial Shipping Container Code (SSCC) and Application Identifier

Ref	Id	Element Name	Req	Type	Min/Max
MAN02	87	**Marks and Numbers**	M	AN	1/48

Description: Marks and numbers used to identify a shipment or parts of a shipment

Dot Foods: *20 digit Pallet Identifier*

This identifier should be bar coded on the pallet label.

HL

Hierarchical Level

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max
HL01	628	**Hierarchical ID Number**	M	AN	1/12

Description: A unique number assigned by the sender to identify a particular data segment in a hierarchical structure

Ref	Id	Element Name	Req	Type	Min/Max
HL02	734	**Hierarchical Parent ID Number**	M	AN	1/12

Description: Identification number of the next higher hierarchical data segment that the data segment being described is subordinate to

Ref	Id	Element Name	Req	Type	Min/Max
HL03	735	**Hierarchical Level Code**	M	ID	1/2

Description: Code specifying the characteristic of a level in a hierarchical structure

Code List Summary (Total Codes: 251, Included: 1)

Code	Name
P	Pack

LIN

Item Identification

Pos: 0200   **Max: 1**
Detail - Mandatory
Loop: HL   **Elements: 7**

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max
LIN01	350	**Assigned Identification**	O	AN	1/20

Description: Alphanumeric characters assigned for differentiation within a transaction set

Ref	Id	Element Name	Req	Type	Min/Max
LIN02	235	**Product/Service ID Qualifier**	M	ID	2/2

Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234)

Code List Summary (Total Codes: 535, Included: 1)

Code	Name
UK	GTIN-14

Ref	Id	Element Name	Req	Type	Min/Max
LIN03	234	**Product/Service ID**	M	AN	1/80

Description: Identifying number for a product or service
Dot Foods: *14-digit case GTIN*

Ref	Id	Element Name	Req	Type	Min/Max
LIN04	235	**Product/Service ID Qualifier**	M	ID	2/2

Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234)

Code List Summary (Total Codes: 535, Included: 1)

Code	Name
LT	Lot Number

Ref	Id	Element Name	Req	Type	Min/Max
LIN05	234	**Product/Service ID**	M	AN	1/80

Description: Identifying number for a product or service
Dot Foods: *Lot Code*

Ref	Id	Element Name	Req	Type	Min/Max
LIN06	235	**Product/Service ID Qualifier**	O	ID	2/2

Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234)

Code List Summary (Total Codes: 535, Included: 1)

Code	Name
CH	Country of Origin Code

Ref	Id	Element Name	Req	Type	Min/Max
LIN07	234	**Product/Service ID**	O	AN	1/80

Description: Identifying number for a product or service
Dot Foods: *Country of Origin*

SN1

Item Detail (Shipment)

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max
SN102	382	**Number of Units Shipped**	M	R	1/10

Description: Numeric value of units shipped in manufacturer's shipping units for a line item or transaction set

Ref	Id	Element Name	Req	Type	Min/Max
SN103	355	**Unit or Basis for Measurement Code**	M	ID	2/2

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

Code List Summary (Total Codes: 919, Included: 1)

Code	Name
CA	Case

PID

Product/Item Description

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max
PID01	349	**Item Description Type Code**	M	ID	1/1

Description: Code indicating the format of a description

Code List Summary (Total Codes: 4, Included: 1)

Code	Name
F	Free-form

Ref	Id	Element Name	Req	Type	Min/Max
PID05	352	**Description**	M	AN	1/80

Description: A free-form description to clarify the related data elements and their content

MEA | Measurements

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max
MEA01	737	**Measurement Reference ID Code**	C	ID	2/2

Description: Code identifying the broad category to which a measurement applies

Code List Summary (Total Codes: 178, Included: 1)

Code	**Name**
WT	Weights

Ref	Id	Element Name	Req	Type	Min/Max
MEA02	738	**Measurement Qualifier**	C	ID	1/3

Description: Code identifying a specific product or process characteristic to which a measurement applies

Code List Summary (Total Codes: 1361, Included: 1)

Code	**Name**
N	Actual Net Weight

Ref	Id	Element Name	Req	Type	Min/Max
MEA03	739	**Measurement Value**	C	R	1/20

Description: The value of the measurement

Ref	Id	Element Name	Req	Type	Min/Max
MEA04	C001	**Composite Unit of Measure**	C	Comp	

Description: To identify a composite unit of measure (See Figures Appendix for examples of use)

Ref	Id	Element Name	Req	Type	Min/Max
MEA04-01	355	**Unit or Basis for Measurement Code**	M	ID	2/2

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

Code List Summary (Total Codes: 919, Included: 1)

Code	**Name**
LB	Pound

Dot Foods:

The MEA segment is required for variable weight items

DTM Date/Time Reference

Pos: 2000   **Max: 10**
Detail - Mandatory
Loop: HL   **Elements: 2**

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max
DTM01	374	**Date/Time Qualifier**	M	ID	3/3

Description: Code specifying type of date or time, or both date and time

Code List Summary (Total Codes: 1332, Included: 1)

Code	Name
405	Production

Ref	Id	Element Name	Req	Type	Min/Max
DTM02	373	**Date**	M	DT	8/8

Description: Date expressed as CCYYMMDD where CC represents the first two digits of the calendar year

DTM — Date/Time Reference

Pos: 2000	**Max: 10**
Detail - Mandatory	
Loop: HL	**Elements: 2**

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max
DTM01	374	**Date/Time Qualifier**	M	ID	3/3

Description: Code specifying type of date or time, or both date and time

Code List Summary (Total Codes: 1332, Included: 1)

Code	Name
036	Expiration

Ref	Id	Element Name	Req	Type	Min/Max
DTM02	373	**Date**	M	DT	8/8

Description: Date expressed as CCYYMMDD where CC represents the first two digits of the calendar year

N1   Party Identification

Pos: 2200   **Max: 1**
Detail - Conditional
Loop: N1   **Elements: 4**

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max
N101	98	**Entity Identifier Code**	M	ID	2/3

Description: Code identifying an organizational entity, a physical location, property or an individual

Code List Summary (Total Codes: 1538, Included: 1)

Code	Name
MP	Manufacturing Plant

Ref	Id	Element Name	Req	Type	Min/Max
N102	93	**Name**	M	AN	1/60

Description: Free-form name
Dot Foods: *Traceability Lot Code Source*

Ref	Id	Element Name	Req	Type	Min/Max
N103	66	**Identification Code Qualifier**	M	ID	1/2

Description: Code specifying the system/method of code structure used for Identification Code (67)

Code List Summary (Total Codes: 258, Included: 3)

Code	Name
9	D-U-N-S+4, D-U-N-S Number with Four Character Suffix
UL	Global Location Number (GLN)
UR	Uniform Resource Locator (URL)

Ref	Id	Element Name	Req	Type	Min/Max
N104	67	**Identification Code**	M	AN	2/80

Description: Code identifying a party or other code

Dot Foods:

The N1 segment at the Detail level is REQUIRED for items on the Food Traceability List (FTL) list due to the Food Safety Modernization Act (FSMA).

N2

Additional Name Information

Pos: 2300	Max: 2
Detail - Conditional	
Loop: N1	**Elements: 1**

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max
N201	93	**Name**	M	AN	1/60

Description: Free-form name

N3   Party Location

Pos: 2400	**Max: 2**
Detail - Conditional	
Loop: N1	**Elements: 1**

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max
N301	166	**Address Information**	M	AN	1/55

Description: Address information

N4   Geographic Location

Pos: 2500	**Max: 1**
Detail - Conditional	
Loop: N1	**Elements: 4**

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max
N401	19	**City Name**	M	AN	2/30

Description: Free-form text for city name

Ref	Id	Element Name	Req	Type	Min/Max
N402	156	**State or Province Code**	M	ID	2/2

Description: Code specifying the Standard State/Province as defined by appropriate government agency

Ref	Id	Element Name	Req	Type	Min/Max
N403	116	**Postal Code**	M	ID	3/15

Description: Code specifying international postal zone code excluding punctuation and blanks (zip code for United States)

Ref	Id	Element Name	Req	Type	Min/Max
N404	26	**Country Code**	O	ID	2/3

Description: Code identifying the country

CTT

Transaction Totals

Pos: 0100   **Max: 1**
Summary - Optional
Loop: N/A   **Elements: 1**

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max
CTT01	354	**Number of Line Items**	M	N0	1/6

> **Description:** Total number of line items in the transaction set
>
> **Dot Foods:** *Number of line items (CTT01) is the accumulation of the number of HL segments.*

SE

Transaction Set Trailer

Pos: 0200	Max: 1
Summary - Mandatory	
Loop: N/A	Elements: 2

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max
SE01	96	**Number of Included Segments**	M	N0	1/10

Description: Total number of segments included in a transaction set including ST and SE segments

Ref	Id	Element Name	Req	Type	Min/Max
SE02	329	**Transaction Set Control Number**	M	AN	4/9

Description: Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set

GE

Functional Group Trailer

Pos:	Max: 1
Not Defined - Mandatory	
Loop: N/A	Elements: 2

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max
GE01	97	**Number of Transaction Sets Included**	M	N0	1/6

Description: Total number of transaction sets included in the functional group or interchange (transmission) group terminated by the trailer containing this data element

GE02	28	**Group Control Number**	M	N0	1/9

Description: Assigned number originated and maintained by the sender

IEA Interchange Control Trailer

Pos:	Max: 1
Not Defined - Mandatory	
Loop: N/A	Elements: 2

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max
IEA01	I16	**Number of Included Functional Groups**	M	N0	1/5

Description: A count of the number of functional groups included in an interchange

Ref	Id	Element Name	Req	Type	Min/Max
IEA02	I12	**Interchange Control Number**	M	N0	9/9

Description: A control number assigned by the interchange sender