

856 Ship Notice/Manifest

X12/V3040/856

Version: 1.0

Company: Simplot Australia
Publication: 12/12/2019

Table of Contents

856 Ship Notice/Manifest	1
ST Transaction Set Header	3
BSN Beginning Segment for Ship Notice	4
NTE Note/Special Instruction	5
DTM Date/Time Reference	6
HL Loop Hierarchical Level	7
HL Hierarchical Level	8
LIN Item Identification	9
SN1 Item Detail (Shipment)	13
SLN Subline Item Detail	14
PRF Purchase Order Reference	17
PO4 Item Physical Details	18
PID Product/Item Description	20
MEA Measurements	22
PWK Paperwork	25
PKG Marking, Packaging, Loading	27
TD1 Carrier Details (Quantity and Weight)	28
TD5 Carrier Details (Routing Sequence/Transit Time)	29
TD3 Carrier Details (Equipment)	31
TD4 Carrier Details (Special Handling or Hazardous Materials or Both)	32
REF Reference Numbers	33
PER Administrative Communications Contact	34
CLD Loop Load Detail	35
CLD Load Detail	36
REF Reference Numbers	37
MAN Marks and Numbers	38
DTM Date/Time Reference	39
FOB F.O.B. Related Instructions	40
PAL Pallet Information	42
N1 Loop Name	44
N1 Name	45
N2 Additional Name Information	46
N3 Address Information	47
N4 Geographic Location	48
REF Reference Numbers	49
PER Administrative Communications Contact	50
FOB F.O.B. Related Instructions	51
SDQ Destination Quantity	53
ETD Excess Transportation Detail	55
CUR Currency	56

ITA	Allowance, Charge or Service	59
GF	Furnished Goods and Services	61
LM	Loop Code Source Information	62
LM	Code Source Information	63
LQ	Industry Code	64
CTT	Transaction Totals	65
SE	Transaction Set Trailer	66

856 Ship Notice/Manifest

Functional Group=SH

Purpose: 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.

Heading:

<u>Pos</u>	<u>Id</u>	<u>Segment Name</u>	<u>Req</u>	<u>Max Use</u>	<u>Repeat</u>	<u>Notes</u>	<u>Usage</u>
010	ST	Transaction Set Header	M	1			Must use
020	BSN	Beginning Segment for Ship Notice	M	1			Must use
030	NTE	Note/Special Instruction	F	100			Used
040	DTM	Date/Time Reference	O	10			Used

Detail:

<u>Pos</u>	<u>Id</u>	<u>Segment Name</u>	<u>Req</u>	<u>Max Use</u>	<u>Repeat</u>	<u>Notes</u>	<u>Usage</u>
LOOP ID - HL					200000	C2/010L	
010	HL	Hierarchical Level	M	1			Must use
020	LIN	Item Identification	O	1			Used
030	SN1	Item Detail (Shipment)	O	1			Used
040	SLN	Subline Item Detail	O	1000			Used
050	PRF	Purchase Order Reference	O	1			Used
060	PO4	Item Physical Details	O	1			Used
070	PID	Product/Item Description	O	200			Used
080	MEA	Measurements	O	40			Used
090	PWK	Paperwork	O	25			Used
100	PKG	Marking, Packaging, Loading	O	25			Used
110	TD1	Carrier Details (Quantity and Weight)	O	20			Used
120	TD5	Carrier Details (Routing Sequence/Transit Time)	O	12			Used
130	TD3	Carrier Details (Equipment)	O	12			Used
140	TD4	Carrier Details (Special Handling or Hazardous Materials or Both)	O	5			Used
150	REF	Reference Numbers	O	>1			Used
160	PER	Administrative Communications Contact	O	3			Used
LOOP ID - CLD					200		

<u>Pos</u>	<u>Id</u>	<u>Segment Name</u>	<u>Req</u>	<u>Max Use</u>	<u>Repeat</u>	<u>Notes</u>	<u>Usage</u>
170	CLD	Load Detail	O	1			Used
180	REF	Reference Numbers	O	200			Used
190	MAN	Marks and Numbers	O	>1			Used
200	DTM	Date/Time Reference	O	10			Used
210	FOB	F.O.B. Related Instructions	O	1			Used
215	PAL	Pallet Information	O	1			Used
LOOP ID - N1					200		
220	N1	Name	O	1			Used
230	N2	Additional Name Information	O	2			Used
240	N3	Address Information	O	2			Used
250	N4	Geographic Location	O	1			Used
260	REF	Reference Numbers	O	12			Used
270	PER	Administrative Communications Contact	O	3			Used
280	FOB	F.O.B. Related Instructions	O	1			Used
290	SDQ	Destination Quantity	O	50			Used
300	ETD	Excess Transportation Detail	O	1			Used
310	CUR	Currency	O	1			Used
320	ITA	Allowance, Charge or Service	O	10			Used
330	GF	Furnished Goods and Services	O	1			Used
LOOP ID - LM					10		
340	LM	Code Source Information	O	1			Used
350	LQ	Industry Code	M	100			Must use

Summary:

<u>Pos</u>	<u>Id</u>	<u>Segment Name</u>	<u>Req</u>	<u>Max Use</u>	<u>Repeat</u>	<u>Notes</u>	<u>Usage</u>
010	CTT	Transaction Totals	O	1		N3/010	Used
020	SE	Transaction Set Trailer	M	1			Must use

Notes:

3/010 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.

Comments:

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

ST Transaction Set Header

Pos: 010	Max: 1
Heading - Mandatory	
Loop: N/A	Elements: 2

User Option (Usage): Must use

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

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
ST01	143	Transaction Set Identifier Code	M	ID	3/3	Must use
Description: Code uniquely identifying a Transaction Set.						
All valid standard codes are used. (Total Codes: 236)						
ST02	329	Transaction Set Control Number	M	AN	4/9	Must use
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

Pos: 020	Max: 1
Heading - Mandatory	
Loop: N/A	Elements: 7

User Option (Usage): Must use

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

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
BSN01	353	Transaction Set Purpose Code	M	ID	2/2	Must use
		Description: Code identifying purpose of transaction set. All valid standard codes are used. (Total Codes: 49)				
BSN02	396	Shipment Identification	M	AN	2/30	Must use
		Description: A unique control number assigned by the original shipper to identify a specific shipment.				
BSN03	373	Date	M	DT	6/6	Must use
		Description: Date (YYMMDD).				
BSN04	337	Time	M	TM	4/8	Must use
		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	Used
		Description: Code indicating the hierarchical application structure of a transaction set that utilizes the HL segment to define the structure of the transaction set. All valid standard codes are used. (Total Codes: 37)				
BSN06	640	Transaction Type Code	X	ID	2/2	Used
		Description: Code specifying the type of transaction. All valid standard codes are used. (Total Codes: 206)				
BSN07	641	Status Reason Code	O	ID	3/3	Used
		Description: Code indicating the status reason. All valid standard codes are used. (Total Codes: 245)				

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

NTE Note/Special Instruction

Pos: 030	Max: 100
Heading - Floating	
Loop: N/A	Elements: 2

User Option (Usage): Used

Purpose: To transmit information in a free-form format, if necessary, for comment or special instruction

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
NTE01	363	Note Reference Code	O	ID	3/3	Used
Description: Code identifying the functional area or purpose for which the note applies. All valid standard codes are used. (Total Codes: 57)						
NTE02	3	Free Form Message	M	AN	1/60	Must use
Description: Free-form text.						

Comments:

1. The NTE segment permits free-form information/data which, under ANSI X12 standard implementations, is not machine processable. The use of the ``NTE'' segment should therefore be avoided, if at all possible, in an automated environment.

DTM Date/Time Reference

Pos: 040	Max: 10
Heading - Optional	
Loop: N/A	Elements: 7

User Option (Usage): Used

Purpose: To specify pertinent dates and times

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
DTM01	374	Date/Time Qualifier	M	ID	3/3	Must use
		Description: Code specifying type of date or time, or both date and time. All valid standard codes are used. (Total Codes: 601)				
DTM02	373	Date	X	DT	6/6	Used
		Description: Date (YYMMDD).				
DTM03	337	Time	X	TM	4/8	Used
		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)				
DTM04	623	Time Code	O	ID	2/2	Used
		Description: 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. All valid standard codes are used. (Total Codes: 39)				
DTM05	624	Century	O	N0	2/2	Used
		Description: The first two characters in the designation of the year (CCYY).				
DTM06	1250	Date Time Period Format Qualifier	X	ID	2/3	Used
		Description: Code indicating the date format, time format, or date and time format. All valid standard codes are used. (Total Codes: 22)				
DTM07	1251	Date Time Period	X	AN	1/35	Used
		Description: Expression of a date, a time, or range of dates, times or dates and times.				

Syntax Rules:

1. R020306 - At least one of DTM02, DTM03 or DTM06 is required.
2. P0607 - If either DTM06 or DTM07 is present, then the other is required.

Loop Hierarchical Level

Pos: 010	Repeat: 200000
Mandatory	
Loop: HL	Elements: N/A

User Option (Usage): Must use

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

Loop Summary:

<u>Pos</u>	<u>Id</u>	<u>Segment Name</u>	<u>Req</u>	<u>Max Use</u>	<u>Repeat</u>	<u>Usage</u>
010	HL	Hierarchical Level	M	1		Must use
020	LIN	Item Identification	O	1		Used
030	SN1	Item Detail (Shipment)	O	1		Used
040	SLN	Subline Item Detail	O	1000		Used
050	PRF	Purchase Order Reference	O	1		Used
060	PO4	Item Physical Details	O	1		Used
070	PID	Product/Item Description	O	200		Used
080	MEA	Measurements	O	40		Used
090	PWK	Paperwork	O	25		Used
100	PKG	Marking, Packaging, Loading	O	25		Used
110	TD1	Carrier Details (Quantity and Weight)	O	20		Used
120	TD5	Carrier Details (Routing Sequence/Transit Time)	O	12		Used
130	TD3	Carrier Details (Equipment)	O	12		Used
140	TD4	Carrier Details (Special Handling or Hazardous Materials or Both)	O	5		Used
150	REF	Reference Numbers	O	>1		Used
160	PER	Administrative Communications Contact	O	3		Used
170		Loop CLD	O		200	Used
190	MAN	Marks and Numbers	O	>1		Used
200	DTM	Date/Time Reference	O	10		Used
210	FOB	F.O.B. Related Instructions	O	1		Used
215	PAL	Pallet Information	O	1		Used
220		Loop N1	O		200	Used
290	SDQ	Destination Quantity	O	50		Used
300	ETD	Excess Transportation Detail	O	1		Used
310	CUR	Currency	O	1		Used
320	ITA	Allowance, Charge or Service	O	10		Used
330	GF	Furnished Goods and Services	O	1		Used
340		Loop LM	O		10	Used

HL Hierarchical Level

Pos: 010	Max: 1
Detail - Mandatory	
Loop: HL	Elements: 4

User Option (Usage): Must use

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

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
HL01	628	Hierarchical ID Number	M	AN	1/12	Must use

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

HL02	734	Hierarchical Parent ID Number	O	AN	1/12	Used
------	-----	--------------------------------------	---	----	------	------

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	Must use
------	-----	--------------------------------	---	----	-----	----------

Description: Code defining the characteristic of a level in a hierarchical structure.

All valid standard codes are used. (Total Codes: 81)

HL04	736	Hierarchical Child Code	O	ID	1/1	Used
------	-----	--------------------------------	---	----	-----	------

Description: Code indicating whether if there are hierarchical child data segments subordinate to the level being described.

All valid standard codes are used. (Total Codes: 2)

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.
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.

LIN Item Identification

Pos: 020	Max: 1
Detail - Optional	
Loop: HL	Elements: 31

User Option (Usage): Used

Purpose: To specify basic item identification data.

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
LIN01	350	Assigned Identification	O	AN	1/11	Used
		Description: Alphanumeric characters assigned for differentiation within a transaction set.				
LIN02	235	Product/Service ID Qualifier	M	ID	2/2	Must use
		Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234).				
		All valid standard codes are used. (Total Codes: 307)				
LIN03	234	Product/Service ID	M	AN	1/30	Must use
		Description: Identifying number for a product or service.				
LIN04	235	Product/Service ID Qualifier	O	ID	2/2	Used
		Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234).				
		All valid standard codes are used. (Total Codes: 307)				
LIN05	234	Product/Service ID	X	AN	1/30	Used
		Description: Identifying number for a product or service.				
LIN06	235	Product/Service ID Qualifier	O	ID	2/2	Used
		Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234).				
		All valid standard codes are used. (Total Codes: 307)				
LIN07	234	Product/Service ID	X	AN	1/30	Used
		Description: Identifying number for a product or service.				
LIN08	235	Product/Service ID Qualifier	O	ID	2/2	Used
		Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234).				
		All valid standard codes are used. (Total Codes: 307)				
LIN09	234	Product/Service ID	X	AN	1/30	Used
		Description: Identifying number for a product or service.				
LIN10	235	Product/Service ID Qualifier	O	ID	2/2	Used
		Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234).				
		All valid standard codes are used. (Total Codes: 307)				
LIN11	234	Product/Service ID	X	AN	1/30	Used
		Description: Identifying number for a product or service.				

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
LIN12	235	Product/Service ID Qualifier	O	ID	2/2	Used
		Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234).				
		All valid standard codes are used. (Total Codes: 307)				
LIN13	234	Product/Service ID	X	AN	1/30	Used
		Description: Identifying number for a product or service.				
LIN14	235	Product/Service ID Qualifier	O	ID	2/2	Used
		Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234).				
		All valid standard codes are used. (Total Codes: 307)				
LIN15	234	Product/Service ID	X	AN	1/30	Used
		Description: Identifying number for a product or service.				
LIN16	235	Product/Service ID Qualifier	O	ID	2/2	Used
		Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234).				
		All valid standard codes are used. (Total Codes: 307)				
LIN17	234	Product/Service ID	X	AN	1/30	Used
		Description: Identifying number for a product or service.				
LIN18	235	Product/Service ID Qualifier	O	ID	2/2	Used
		Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234).				
		All valid standard codes are used. (Total Codes: 307)				
LIN19	234	Product/Service ID	X	AN	1/30	Used
		Description: Identifying number for a product or service.				
LIN20	235	Product/Service ID Qualifier	O	ID	2/2	Used
		Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234).				
		All valid standard codes are used. (Total Codes: 307)				
LIN21	234	Product/Service ID	X	AN	1/30	Used
		Description: Identifying number for a product or service.				
LIN22	235	Product/Service ID Qualifier	O	ID	2/2	Used
		Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234).				
		All valid standard codes are used. (Total Codes: 307)				
LIN23	234	Product/Service ID	X	AN	1/30	Used
		Description: Identifying number for a product or service.				
LIN24	235	Product/Service ID Qualifier	O	ID	2/2	Used
		Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234).				

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>	
		All valid standard codes are used. (Total Codes: 307)					
LIN25	234	Product/Service ID	X	AN	1/30	Used	
		Description: Identifying number for a product or service.					
LIN26	235	Product/Service ID Qualifier	O	ID	2/2	Used	
		Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234).					
		All valid standard codes are used. (Total Codes: 307)					
LIN27	234	Product/Service ID	X	AN	1/30	Used	
		Description: Identifying number for a product or service.					
LIN28	235	Product/Service ID Qualifier	O	ID	2/2	Used	
		Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234).					
		All valid standard codes are used. (Total Codes: 307)					
LIN29	234	Product/Service ID	X	AN	1/30	Used	
		Description: Identifying number for a product or service.					
LIN30	235	Product/Service ID Qualifier	O	ID	2/2	Used	
		Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234).					
		All valid standard codes are used. (Total Codes: 307)					
LIN31	234	Product/Service ID	X	AN	1/30	Used	
		Description: Identifying number for a product or service.					

Syntax Rules:

1. C0405 - If LIN04 is present, then LIN05 is required.
2. C0607 - If LIN06 is present, then LIN07 is required.
3. C0809 - If LIN08 is present, then LIN09 is required.
4. C1011 - If LIN10 is present, then LIN11 is required.
5. C1213 - If LIN12 is present, then LIN13 is required.
6. C1415 - If LIN14 is present, then LIN15 is required.
7. C1617 - If LIN16 is present, then LIN17 is required.
8. C1819 - If LIN18 is present, then LIN19 is required.
9. C2021 - If LIN20 is present, then LIN21 is required.
10. C2223 - If LIN22 is present, then LIN23 is required.
11. C2425 - If LIN24 is present, then LIN25 is required.
12. C2627 - If LIN26 is present, then LIN27 is required.
13. C2829 - If LIN28 is present, then LIN29 is required.
14. C3031 - If LIN30 is present, then LIN31 is required.

Semantics:

1. LIN01 is the line item identification

Comments:

1. See the Data Dictionary for a complete list of ID's.
2. LIN02 through LIN31 provide for fifteen (15) different product/service ID's for each item. For Example: Case, Color, Drawing No., UPC No., ISBN No., Model No., SKU.

SN1 Item Detail (Shipment)

Pos: 030	Max: 1
Detail - Optional	
Loop: HL	Elements: 8

User Option (Usage): Used

Purpose: To specify line item detail relative to shipment

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
SN101	350	Assigned Identification	O	AN	1/11	Used
		Description: Alphanumeric characters assigned for differentiation within a transaction set.				
SN102	382	Number of Units Shipped	M	R	1/10	Must use
		Description: Numeric value of units shipped in manufacturer's shipping units for a line item or transaction set.				
SN103	355	Unit or Basis for Measurement Code	M	ID	2/2	Must use
		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: 719)				
SN104	646	Quantity Shipped to Date	O	R	1/9	Used
		Description: Number of units shipped to date.				
SN105	330	Quantity Ordered	O	R	1/9	Used
		Description: Quantity ordered.				
SN106	355	Unit or Basis for Measurement Code	X	ID	2/2	Used
		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: 719)				
SN107	728	Returnable Container Load Make-Up Code	O	ID	1/2	Used
		Description: Code identifying the load make-up of the returnable containers in the shipment.				
		All valid standard codes are used. (Total Codes: 11)				
SN108	668	Line Item Status Code	O	ID	2/2	Used
		Description: Code specifying the action taken by the seller on a line item requested by the buyer.				
		All valid standard codes are used. (Total Codes: 17)				

Syntax Rules:

1. C0506 - If SN105 is present, then SN106 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.

SLN Subline Item Detail

Pos: 040	Max: 1000
Detail - Optional	
Loop: HL	Elements: 28

User Option (Usage): Used

Purpose: To specify product subline detail item data

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
SLN01	350	Assigned Identification	M	AN	1/11	Must use
		Description: Alphanumeric characters assigned for differentiation within a transaction set.				
SLN02	350	Assigned Identification	O	AN	1/11	Used
		Description: Alphanumeric characters assigned for differentiation within a transaction set.				
SLN03	661	Configuration Code	M	ID	1/1	Must use
		Description: Code indicating the relationship of the subline item to the baseline item.				
		All valid standard codes are used. (Total Codes: 4)				
SLN04	380	Quantity	M	R	1/15	Must use
		Description: Numeric value of quantity.				
SLN05	355	Unit or Basis for Measurement Code	M	ID	2/2	Must use
		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: 719)				
SLN06	212	Unit Price	X	R	1/14	Used
		Description: Price per unit of product, service, commodity, etc.				
SLN07	639	Basis of Unit Price Code	O	ID	2/2	Used
		Description: Code identifying the type of unit price for an item.				
		All valid standard codes are used. (Total Codes: 81)				
SLN08	662	Price Relationship Code	O	ID	1/1	Used
		Description: Code indicating the relationship of the price or amount to the associated segment.				
		All valid standard codes are used. (Total Codes: 4)				
SLN09	235	Product/Service ID Qualifier	O	ID	2/2	Used
		Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234).				
		All valid standard codes are used. (Total Codes: 307)				
SLN10	234	Product/Service ID	X	AN	1/30	Used
		Description: Identifying number for a product or service.				
SLN11	235	Product/Service ID Qualifier	O	ID	2/2	Used
		Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234).				
		All valid standard codes are used. (Total Codes: 307)				

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
SLN12	234	Product/Service ID	X	AN	1/30	Used
		Description: Identifying number for a product or service.				
SLN13	235	Product/Service ID Qualifier	O	ID	2/2	Used
		Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234).				
		All valid standard codes are used. (Total Codes: 307)				
SLN14	234	Product/Service ID	X	AN	1/30	Used
		Description: Identifying number for a product or service.				
SLN15	235	Product/Service ID Qualifier	O	ID	2/2	Used
		Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234).				
		All valid standard codes are used. (Total Codes: 307)				
SLN16	234	Product/Service ID	X	AN	1/30	Used
		Description: Identifying number for a product or service.				
SLN17	235	Product/Service ID Qualifier	O	ID	2/2	Used
		Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234).				
		All valid standard codes are used. (Total Codes: 307)				
SLN18	234	Product/Service ID	X	AN	1/30	Used
		Description: Identifying number for a product or service.				
SLN19	235	Product/Service ID Qualifier	O	ID	2/2	Used
		Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234).				
		All valid standard codes are used. (Total Codes: 307)				
SLN20	234	Product/Service ID	X	AN	1/30	Used
		Description: Identifying number for a product or service.				
SLN21	235	Product/Service ID Qualifier	O	ID	2/2	Used
		Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234).				
		All valid standard codes are used. (Total Codes: 307)				
SLN22	234	Product/Service ID	X	AN	1/30	Used
		Description: Identifying number for a product or service.				
SLN23	235	Product/Service ID Qualifier	O	ID	2/2	Used
		Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234).				
		All valid standard codes are used. (Total Codes: 307)				
SLN24	234	Product/Service ID	X	AN	1/30	Used
		Description: Identifying number for a product or service.				

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
SLN25	235	Product/Service ID Qualifier	O	ID	2/2	Used
		Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234).				
		All valid standard codes are used. (Total Codes: 307)				
SLN26	234	Product/Service ID	X	AN	1/30	Used
		Description: Identifying number for a product or service.				
SLN27	235	Product/Service ID Qualifier	O	ID	2/2	Used
		Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234).				
		All valid standard codes are used. (Total Codes: 307)				
SLN28	234	Product/Service ID	X	AN	1/30	Used
		Description: Identifying number for a product or service.				

Syntax Rules:

1. C0706 - If SLN07 is present, then SLN06 is required.
2. C0806 - If SLN08 is present, then SLN06 is required.
3. C0910 - If SLN09 is present, then SLN10 is required.
4. C1112 - If SLN11 is present, then SLN12 is required.
5. C1314 - If SLN13 is present, then SLN14 is required.
6. C1516 - If SLN15 is present, then SLN16 is required.
7. C1718 - If SLN17 is present, then SLN18 is required.
8. C1920 - If SLN19 is present, then SLN20 is required.
9. C2122 - If SLN21 is present, then SLN22 is required.
10. C2324 - If SLN23 is present, then SLN24 is required.
11. C2526 - If SLN25 is present, then SLN26 is required.
12. C2728 - If SLN27 is present, then SLN28 is required.

Semantics:

1. SLN01 is the identifying number for the subline item.
2. SLN02 is the identifying number for the subline level. The subline level is analogous to the level code used in a bill of materials.

Comments:

1. See the Data Dictionary for a complete list of ID's.
2. SLN01 is related to (but not necessarily equivalent to) the baseline item number. Example: 1.1 or 1A might be used as a subline number to relate to baseline number 1.
3. SLN09 through SLN28 provide for ten (10) different product/service ID's for each item. For example: Case, Color, Drawing No., UPC No., ISBN No., Model No., SKU.

PRF Purchase Order Reference

Pos: 050	Max: 1
Detail - Optional	
Loop: HL	Elements: 7

User Option (Usage): Used

Purpose: To provide reference to a specific purchase order

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
PRF01	324	Purchase Order Number	M	AN	1/22	Must use
		Description: Identifying number for Purchase Order assigned by the orderer/purchaser.				
PRF02	328	Release Number	O	AN	1/30	Used
		Description: Number identifying a release against a Purchase Order previously placed by the parties involved in the transaction.				
PRF03	327	Change Order Sequence Number	O	AN	1/8	Used
		Description: Number assigned by the orderer identifying a specific change or revision to a previously transmitted transaction set.				
PRF04	323	Purchase Order Date	O	DT	6/6	Used
		Description: Date assigned by the purchaser to Purchase Order.				
PRF05	350	Assigned Identification	O	AN	1/11	Used
		Description: Alphanumeric characters assigned for differentiation within a transaction set.				
PRF06	367	Contract Number	O	AN	1/30	Used
		Description: Contract number.				
PRF07	92	Purchase Order Type Code	O	ID	2/2	Used
		Description: Code specifying the type of Purchase Order. All valid standard codes are used. (Total Codes: 51)				

PO4 Item Physical Details

Pos: 060	Max: 1
Detail - Optional	
Loop: HL	Elements: 13

User Option (Usage): Used

Purpose: To specify the physical qualities, packaging, weights and dimensions relating to the item.

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
PO401	356	Pack	O	N0	1/6	Used
		Description: Number of inner pack units per outer pack unit.				
PO402	357	Size	O	R	1/8	Used
		Description: Size of supplier units in pack.				
PO403	355	Unit or Basis for Measurement Code	X	ID	2/2	Used
		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: 719)				
PO404	103	Packaging Code	O	AN	5/5	Used
		Description: Code identifying the type of packaging. Part 1. Packaging form. Part 2. Packaging Material.				
		All valid standard codes are used. (Total Codes: 187)				
PO405	187	Weight Qualifier	O	ID	1/2	Used
		Description: Code defining the type of weight.				
		All valid standard codes are used. (Total Codes: 40)				
PO406	384	Gross Weight per Pack	X	R	1/9	Used
		Description: Numeric value of gross weight per pack.				
PO407	355	Unit or Basis for Measurement Code	X	ID	2/2	Used
		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: 719)				
PO408	385	Gross Volume per Pack	X	R	1/9	Used
		Description: Numeric value of gross volume per pack.				
PO409	355	Unit or Basis for Measurement Code	X	ID	2/2	Used
		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: 719)				
PO410	82	Length	O	R	1/8	Used
		Description: Largest horizontal dimension of an object measured when the object is in the upright position.				
PO411	189	Width	O	R	1/8	Used
		Description: Shorter measurement of the two horizontal dimensions measured with the object in the upright position.				

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
PO412	65	Height	O	R	1/8	Used
		Description: Vertical dimension of an object measured when the object is in the upright position.				
PO413	355	Unit or Basis for Measurement Code	X	ID	2/2	Used
		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: 719)				

Syntax Rules:

1. C0203 - If PO402 is present, then PO403 is required.
2. C0506 - If PO405 is present, then PO406 is required.
3. C0607 - If PO406 is present, then PO407 is required.
4. P0809 - If either PO408 or PO409 is present, then the other is required.
5. C1013 - If PO410 is present, then PO413 is required.
6. C1113 - If PO411 is present, then PO413 is required.
7. C1213 - If PO412 is present, then PO413 is required.
8. L13101112 - If PO413 is present, then at least one of PO410, PO411 or PO412 is required.

Comments:

1. PO403 - The "Unit of Measure Code" (Element #355) in this segment position is for purposes of defining the pack (PO401) /size (PO402) measure which indicates the quantity in the inner pack unit. Example: If the carton contains 24 12-Ounce packages, it would be described as follows: Element 356 = 24; Element 357 = 12; Element 355 = OZ.
2. PO413 defines the unit of measure for PO410, PO411, and PO412.

PID Product/Item Description

Pos: 070	Max: 200
Detail - Optional	
Loop: HL	Elements: 8

User Option (Usage): Used

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

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
PID01	349	Item Description Type	M	ID	1/1	Must use
		Description: Code indicating the format of a description. All valid standard codes are used. (Total Codes: 3)				
PID02	750	Product/Process Characteristic Code	O	ID	2/3	Used
		Description: Code identifying the general class of a product or process characteristic All valid standard codes are used. (Total Codes: 173)				
PID03	559	Agency Qualifier Code	X	ID	2/2	Used
		Description: Code identifying the agency assigning the code values. All valid standard codes are used. (Total Codes: 80)				
PID04	751	Product Description Code	X	AN	1/12	Used
		Description: A code from an industry code list which provides specific data about a product characteristic.				
PID05	352	Description	X	AN	1/80	Used
		Description: A free-form description to clarify the related data elements and their content.				
PID06	752	Surface/Layer/Position Code	O	ID	2/2	Used
		Description: Code indicating the product surface, layer or position that is being described. All valid standard codes are used. (Total Codes: 79)				
PID07	822	Source Subqualifier	O	AN	1/15	Used
		Description: A reference that indicates the table or text maintained by the Source Qualifier.				
PID08	1073	Yes/No Condition or Response Code	O	ID	1/1	Used
		Description: Code indicating a Yes or No condition or response. All valid standard codes are used. (Total Codes: 3)				

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. C0803 - If PID08 is present, then PID03 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. A ``N'' indicates it does not apply. Any other value is indeterminate.

Comments:

1. If PID01 = ``F", then PID05 is used. If PID01 = ``S", then PID04 is used. If PID01 = ``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	Max: 40
Detail - Optional	
Loop: HL	Elements: 10

User Option (Usage): Used

Purpose: To specify physical measurements or counts, including dimensions, tolerances, variances, and weights

(See Figures Appendix for example of use of C001.)

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
MEA01	737	Measurement Reference ID Code	O	ID	2/2	Used
<p>Description: Code identifying the broad category to which a measurement applies All valid standard codes are used. (Total Codes: 80)</p>						
MEA02	738	Measurement Qualifier	O	ID	1/3	Used
<p>Description: Code identifying a specific product or process characteristic to which a measurement applies All valid standard codes are used. (Total Codes: 720)</p>						
MEA03	739	Measurement Value	X	R	1/10	Used
<p>Description: The value of the measurement.</p>						
MEA04	C001	Composite Unit of Measure	X	Comp		Used
<p>Description: To identify a composite unit of measure(See Figures Appendix for examples of use.)</p>						
MEA04-01	355	Unit or Basis for Measurement Code	M	ID	2/2	Must use
<p>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: 719)</p>						
MEA04-02	1018	Exponent	O	R	1/15	Used
<p>Description: Power to which a unit is raised.</p>						
MEA04-03	649	Multiplier	O	R	1/10	Used
<p>Description: Value to be used as a multiplier to obtain a new value</p>						
MEA04-04	355	Unit or Basis for Measurement Code	O	ID	2/2	Used
<p>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: 719)</p>						
MEA04-05	1018	Exponent	O	R	1/15	Used
<p>Description: Power to which a unit is raised.</p>						
MEA04-06	649	Multiplier	O	R	1/10	Used
<p>Description: Value to be used as a multiplier to obtain a new value</p>						
MEA04-07	355	Unit or Basis for Measurement Code	O	ID	2/2	Used
<p>Description: Code specifying the units in which a value is being expressed, or manner in</p>						

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
		which a measurement has been taken All valid standard codes are used. (Total Codes: 719)				
MEA04-08	1018	Exponent	O	R	1/15	Used
		Description: Power to which a unit is raised.				
MEA04-09	649	Multiplier	O	R	1/10	Used
		Description: Value to be used as a multiplier to obtain a new value				
MEA04-10	355	Unit or Basis for Measurement Code	O	ID	2/2	Used
		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: 719)				
MEA04-11	1018	Exponent	O	R	1/15	Used
		Description: Power to which a unit is raised.				
MEA04-12	649	Multiplier	O	R	1/10	Used
		Description: Value to be used as a multiplier to obtain a new value				
MEA04-13	355	Unit or Basis for Measurement Code	O	ID	2/2	Used
		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: 719)				
MEA04-14	1018	Exponent	O	R	1/15	Used
		Description: Power to which a unit is raised.				
MEA04-15	649	Multiplier	O	R	1/10	Used
		Description: Value to be used as a multiplier to obtain a new value				
MEA05	740	Range Minimum	X	R	1/10	Used
		Description: The value specifying the minimum of the measurement range.				
MEA06	741	Range Maximum	X	R	1/10	Used
		Description: The value specifying the maximum of the measurement range.				
MEA07	935	Measurement Significance Code	O	ID	2/2	Used
		Description: Code used to benchmark, qualify or further define a measurement value. All valid standard codes are used. (Total Codes: 38)				
MEA08	936	Measurement Attribute Code	X	ID	2/2	Used
		Description: Code used to express an attribute response when a numeric measurement value cannot be determined. All valid standard codes are used. (Total Codes: 40)				
MEA09	752	Surface/Layer/Position Code	O	ID	2/2	Used
		Description: Code indicating the product surface, layer or position that is being described. All valid standard codes are used. (Total Codes: 79)				
MEA10	1373	Measurement Method or Device	X	ID	2/4	Used

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
Description: The method or device used to record the measurement						
All valid standard codes are used. (Total Codes: 7)						

Syntax Rules:

1. R03050608 - At least one of MEA03, MEA05, MEA06 or MEA08 is required.
2. C0304 - If MEA03 is present, then MEA04 is required.
3. C0504 - If MEA05 is present, then MEA04 is required.
4. C0604 - If MEA06 is present, then MEA04 is required.
5. L07030506 - If MEA07 is present, then at least one of MEA03, MEA05 or MEA06 is required.
6. 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.

PWK Paperwork

Pos: 090	Max: 25
Detail - Optional	
Loop: HL	Elements: 8

User Option (Usage): Used

Purpose: To identify the type and transmission of paperwork or supporting information

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
PWK01	755	Report Type Code	M	ID	2/2	Must use
		Description: Code indicating the title or contents of a document, report or supporting item All valid standard codes are used. (Total Codes: 258)				
PWK02	756	Report Transmission Code	O	ID	2/2	Used
		Description: Code defining timing, transmission method or format by which reports are to be sent All valid standard codes are used. (Total Codes: 23)				
PWK03	757	Report Copies Needed	O	N0	1/2	Used
		Description: The number of copies of a report that should be sent to the addressee.				
PWK04	98	Entity Identifier Code	O	ID	2/2	Used
		Description: Code identifying an organizational entity, a physical location, or an individual All valid standard codes are used. (Total Codes: 687)				
PWK05	66	Identification Code Qualifier	X	ID	1/2	Used
		Description: Code designating the system/method of code structure used for Identification Code (67). All valid standard codes are used. (Total Codes: 138)				
PWK06	67	Identification Code	X	AN	2/17	Used
		Description: Code identifying a party or other code.				
PWK07	352	Description	O	AN	1/80	Used
		Description: A free-form description to clarify the related data elements and their content.				
PWK08	C002	Actions Indicated	O	Comp		Used
		Description: Actions to be performed on the piece of paperwork identified				
PWK08-01	704	Paperwork/Report Action Code	M	ID	1/2	Must use
		Description: Code specifying how the paperwork or report that is identified in the PWK segment relates to the transaction set or to identify the action that is required. All valid standard codes are used. (Total Codes: 12)				
PWK08-02	704	Paperwork/Report Action Code	O	ID	1/2	Used
		Description: Code specifying how the paperwork or report that is identified in the PWK segment relates to the transaction set or to identify the action that is required. All valid standard codes are used. (Total Codes: 12)				
PWK08-03	704	Paperwork/Report Action Code	O	ID	1/2	Used
		Description: Code specifying how the paperwork or report that is identified in the PWK segment relates to the transaction set or to identify the action that is required.				

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
All valid standard codes are used. (Total Codes: 12)						
PWK08-04	704	Paperwork/Report Action Code	O	ID	1/2	Used
Description: Code specifying how the paperwork or report that is identified in the PWK segment relates to the transaction set or to identify the action that is required.						
All valid standard codes are used. (Total Codes: 12)						
PWK08-05	704	Paperwork/Report Action Code	O	ID	1/2	Used
Description: Code specifying how the paperwork or report that is identified in the PWK segment relates to the transaction set or to identify the action that is required.						
All valid standard codes are used. (Total Codes: 12)						

Syntax Rules:

1. P0506 - If either PWK05 or PWK06 is present, then the other is required.

Comments:

1. PWK05 and PWK06 may be used to identify the addressee by a code number.
2. PWK07 may be used to indicate special information to be shown on the specified report.
3. PWK08 may be used to indicate action pertaining to a report.

PKG Marking, Packaging, Loading

Pos: 100	Max: 25
Detail - Optional	
Loop: HL	Elements: 6

User Option (Usage): Used

Purpose: To describe marking, packaging, loading and unloading requirements.

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
PKG01	349	Item Description Type	X	ID	1/1	Used
		Description: Code indicating the format of a description. All valid standard codes are used. (Total Codes: 3)				
PKG02	753	Packaging Characteristic Code	O	ID	1/5	Used
		Description: Code specifying the marking, packaging, loading and related characteristics being described. All valid standard codes are used. (Total Codes: 22)				
PKG03	559	Agency Qualifier Code	X	ID	2/2	Used
		Description: Code identifying the agency assigning the code values. All valid standard codes are used. (Total Codes: 80)				
PKG04	754	Packaging Description Code	X	AN	1/7	Used
		Description: A code from an industry code list which provides specific data about the marking, packaging or loading and unloading of a product.				
PKG05	352	Description	X	AN	1/80	Used
		Description: A free-form description to clarify the related data elements and their content.				
PKG06	400	Unit Load Option Code	O	ID	2/2	Used
		Description: Code identifying loading or unloading a shipment All valid standard codes are used. (Total Codes: 6)				

Syntax Rules:

1. R040506 - At least one of PKG04, PKG05 or PKG06 is required.
2. C0401 - If PKG04 is present, then PKG01 is required.
3. C0501 - If PKG05 is present, then PKG01 is required.

Semantics:

1. PKG04 should be used for industry-specific packaging description codes.

Comments:

1. Use MEA (Measurements) segment to define dimensions, tolerances weights, counts, physical restrictions, etc.
2. If PKG01 = ``F'', then PKG05 is used. If PKG01 = ``S'', then PKG04 is used. If PKG01 = ``X'', then both PKG04 and PKG05 are used.
3. Use PKG03 to indicate the organization that publishes the code list being referred to.
4. Special marking or tagging data can be given in PKG05 (Description).

TD1 Carrier Details (Quantity and Weight)

Pos: 110	Max: 20
Detail - Optional	
Loop: HL	Elements: 8

User Option (Usage): Used

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

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
TD101	103	Packaging Code	O	AN	5/5	Used
		Description: Code identifying the type of packaging. Part 1. Packaging form. Part 2. Packaging Material.				
		All valid standard codes are used. (Total Codes: 187)				
TD102	80	Lading Quantity	X	N0	1/7	Used
		Description: Number of units (pieces) of the lading commodity.				
TD103	23	Commodity Code Qualifier	O	ID	1/1	Used
		Description: Code identifying the commodity coding system used for Commodity Code.				
		All valid standard codes are used. (Total Codes: 21)				
TD104	22	Commodity Code	X	AN	1/16	Used
		Description: Code describing a commodity or group of commodities.				
TD105	79	Lading Description	O	AN	1/50	Used
		Description: Description of an item as required for rating and billing purposes.				
TD106	187	Weight Qualifier	O	ID	1/2	Used
		Description: Code defining the type of weight.				
		All valid standard codes are used. (Total Codes: 40)				
TD107	81	Weight	X	R	1/10	Used
		Description: Numeric value of weight.				
TD108	355	Unit or Basis for Measurement Code	X	ID	2/2	Used
		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: 719)				

Syntax Rules:

1. C0102 - If TD101 is present, then TD102 is required.
2. C0304 - If TD103 is present, then TD104 is required.
3. C060708 - If TD106 is present, then TD107 and TD108 are required.

TD5 Carrier Details (Routing Sequence/Transit Time)

Pos: 120	Max: 12
Detail - Optional	
Loop: HL	Elements: 12

User Option (Usage): Used

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

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
TD501	133	Routing Sequence Code	O	ID	1/2	Used
		Description: Code describing the relationship of a carrier to a specific shipment movement. All valid standard codes are used. (Total Codes: 23)				
TD502	66	Identification Code Qualifier	X	ID	1/2	Used
		Description: Code designating the system/method of code structure used for Identification Code (67). All valid standard codes are used. (Total Codes: 138)				
TD503	67	Identification Code	X	AN	2/17	Used
		Description: Code identifying a party or other code.				
TD504	91	Transportation Method/Type Code	X	ID	1/2	Used
		Description: Code specifying the method or type of transportation for the shipment. All valid standard codes are used. (Total Codes: 70)				
TD505	387	Routing	X	AN	1/35	Used
		Description: Free-form description of the routing or requested routing for shipment, or the originating carrier's identity.				
TD506	368	Shipment/Order Status Code	X	ID	2/2	Used
		Description: Code indicating the status of an order or shipment or the disposition of any difference between the quantity ordered and the quantity shipped for a line item or transaction. All valid standard codes are used. (Total Codes: 90)				
TD507	309	Location Qualifier	O	ID	1/2	Used
		Description: Code identifying type of location. All valid standard codes are used. (Total Codes: 83)				
TD508	310	Location Identifier	X	AN	1/30	Used
		Description: Code which identifies a specific location.				
TD509	731	Transit Direction Code	O	ID	2/2	Used
		Description: The point of origin and point of direction. All valid standard codes are used. (Total Codes: 7)				
TD510	732	Transit Time Direction Qualifier	O	ID	2/2	Used
		Description: Code specifying the value of time used to measure the transit time. All valid standard codes are used. (Total Codes: 10)				
TD511	733	Transit Time	X	R	1/4	Used

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
		Description: The numeric amount of transit time.				
TD512	284	Service Level Code	X	ID	2/2	Used
		Description: Code defining service				
		All valid standard codes are used. (Total Codes: 33)				

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.

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; use TD503 to identify the actual routing sequence, specified by the party identified in TD502.

TD3 Carrier Details (Equipment)

Pos: 130	Max: 12
Detail - Optional	
Loop: HL	Elements: 9

User Option (Usage): Used

Purpose: To specify transportation details relating to the equipment used by the carrier.

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
TD301	40	Equipment Description Code	M	ID	2/2	Must use
		Description: Code identifying type of equipment used for shipment. All valid standard codes are used. (Total Codes: 125)				
TD302	206	Equipment Initial	O	AN	1/4	Used
		Description: Prefix or alphabetic part of an equipment unit's identifying number.				
TD303	207	Equipment Number	X	AN	1/10	Used
		Description: Sequencing or serial part of an equipment unit's identifying number (pure numeric form for equipment number is preferred).				
TD304	187	Weight Qualifier	O	ID	1/2	Used
		Description: Code defining the type of weight. All valid standard codes are used. (Total Codes: 40)				
TD305	81	Weight	X	R	1/10	Used
		Description: Numeric value of weight.				
TD306	355	Unit or Basis for Measurement Code	X	ID	2/2	Used
		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: 719)				
TD307	102	Ownership Code	O	ID	1/1	Used
		Description: Code indicating the relationship of equipment to carrier or ownership of equipment All valid standard codes are used. (Total Codes: 4)				
TD308	407	Seal Status Code	O	ID	2/2	Used
		Description: Code indicating condition of door seal upon arrival. All valid standard codes are used. (Total Codes: 4)				
TD309	225	Seal Number	O	AN	2/15	Used
		Description: Unique number on seal used to close a shipment.				

Syntax Rules:

1. C0203 - If TD302 is present, then TD303 is required.
2. C040506 - If TD304 is present, then TD305 and TD306 are required.

TD4 Carrier Details (Special Handling or Hazardous Materials or Both)

Pos: 140	Max: 5
Detail - Optional	
Loop: HL	Elements: 4

User Option (Usage): Used

Purpose: To specify transportation special handling requirements or hazardous materials information or both

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
TD401	152	Special Handling Code	X	ID	2/3	Used

Description: Code specifying special transportation handling instructions.

All valid standard codes are used. (Total Codes: 344)

TD402	208	Hazardous Material Code Qualifier	X	ID	1/1	Used
-------	-----	--	---	----	-----	------

Description: Code which qualifies the Hazardous Material Class Code (209).

All valid standard codes are used. (Total Codes: 11)

TD403	209	Hazardous Material Class Code	X	AN	2/4	Used
-------	-----	--------------------------------------	---	----	-----	------

Description: Code specifying the kind of hazard for a material.

TD404	352	Description	X	AN	1/80	Used
-------	-----	--------------------	---	----	------	------

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

Syntax Rules:

1. R010204 - At least one of TD401, TD402 or TD404 is required.
2. C0203 - If TD402 is present, then TD403 is required.

REF Reference Numbers

Pos: 150	Max: >1
Detail - Optional	
Loop: HL	Elements: 3

User Option (Usage): Used

Purpose: To specify identifying numbers.

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
REF01	128	Reference Number Qualifier	M	ID	2/2	Must use

Description: Code qualifying the Reference Number.

All valid standard codes are used. (Total Codes: 859)

REF02	127	Reference Number	X	AN	1/30	Used
-------	-----	------------------	---	----	------	------

Description: Reference number or identification number as defined for a particular Transaction Set, or as specified by the Reference Number Qualifier.

REF03	352	Description	X	AN	1/80	Used
-------	-----	-------------	---	----	------	------

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

Syntax Rules:

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

PER Administrative Communications Contact

Pos: 160	Max: 3
Detail - Optional	
Loop: HL	Elements: 6

User Option (Usage): Used

Purpose: To identify a person or office to whom administrative communications should be directed

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
PER01	366	Contact Function Code	M	ID	2/2	Must use
		Description: Code identifying the major duty or responsibility of the person or group named.				
		All valid standard codes are used. (Total Codes: 154)				
PER02	93	Name	O	AN	1/35	Used
		Description: Free-form name.				
PER03	365	Communication Number Qualifier	X	ID	2/2	Used
		Description: Code identifying the type of communication number.				
		All valid standard codes are used. (Total Codes: 20)				
PER04	364	Communication Number	X	AN	1/80	Used
		Description: Complete communications number including country or area code when applicable.				
PER05	365	Communication Number Qualifier	X	ID	2/2	Used
		Description: Code identifying the type of communication number.				
		All valid standard codes are used. (Total Codes: 20)				
PER06	364	Communication Number	X	AN	1/80	Used
		Description: Complete communications number including country or area code when applicable.				

Syntax Rules:

1. P0304 - If either PER03 or PER04 is present, then the other is required.
2. P0506 - If either PER05 or PER06 is present, then the other is required.

Loop Load Detail

Pos: 170 Repeat: 200
 Optional
 Loop: CLD Elements: N/A

User Option (Usage): Used

Purpose: To specify the number of material loads shipped.

Loop Summary:

<u>Pos</u>	<u>Id</u>	<u>Segment Name</u>	<u>Req</u>	<u>Max Use</u>	<u>Repeat</u>	<u>Usage</u>
170	CLD	Load Detail	O	1		Used
180	REF	Reference Numbers	O	200		Used

CLD Load Detail

Pos: 170	Max: 1
Detail - Optional	
Loop: CLD	Elements: 5

User Option (Usage): Used

Purpose: To specify the number of material loads shipped.

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
CLD01	622	Number of Loads	M	N0	1/5	Must use
		Description: Number of customer-defined loads shipped by the supplier.				
CLD02	382	Number of Units Shipped	M	R	1/10	Must use
		Description: Numeric value of units shipped in manufacturer's shipping units for a line item or transaction set.				
CLD03	103	Packaging Code	O	AN	5/5	Used
		Description: Code identifying the type of packaging. Part 1. Packaging form. Part 2. Packaging Material.				
		All valid standard codes are used. (Total Codes: 187)				
CLD04	357	Size	O	R	1/8	Used
		Description: Size of supplier units in pack.				
CLD05	355	Unit or Basis for Measurement Code	O	ID	2/2	Used
		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: 719)				

Semantics:

1. CLD05, "Unit of Measure Code," is used to dimension the value given in CLD04, "Size."

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.

REF Reference Numbers

Pos: 180	Max: 200
Detail - Optional	
Loop: CLD	Elements: 3

User Option (Usage): Used

Purpose: To specify identifying numbers.

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
REF01	128	Reference Number Qualifier	M	ID	2/2	Must use

Description: Code qualifying the Reference Number.

All valid standard codes are used. (Total Codes: 859)

REF02	127	Reference Number	X	AN	1/30	Used
-------	-----	------------------	---	----	------	------

Description: Reference number or identification number as defined for a particular Transaction Set, or as specified by the Reference Number Qualifier.

REF03	352	Description	X	AN	1/80	Used
-------	-----	-------------	---	----	------	------

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

Syntax Rules:

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

MAN Marks and Numbers

Pos: 190	Max: >1
Detail - Optional	
Loop: HL	Elements: 6

User Option (Usage): Used

Purpose: To indicate identifying marks and numbers for shipping containers

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
MAN01	88	Marks and Numbers Qualifier	M	ID	1/2	Must use
Description: Code specifying the application or source of Marks and Numbers (87). All valid standard codes are used. (Total Codes: 16)						
MAN02	87	Marks and Numbers	M	AN	1/45	Must use
Description: Marks and numbers used to identify a shipment or parts of a shipment.						
MAN03	87	Marks and Numbers	O	AN	1/45	Used
Description: Marks and numbers used to identify a shipment or parts of a shipment.						
MAN04	88	Marks and Numbers Qualifier	O	ID	1/2	Used
Description: Code specifying the application or source of Marks and Numbers (87). All valid standard codes are used. (Total Codes: 16)						
MAN05	87	Marks and Numbers	O	AN	1/45	Used
Description: Marks and numbers used to identify a shipment or parts of a shipment.						
MAN06	87	Marks and Numbers	O	AN	1/45	Used
Description: Marks and numbers used to identify a shipment or parts of a shipment.						

Semantics:

1. 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.
2. 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.

DTM Date/Time Reference

Pos: 200	Max: 10
Detail - Optional	
Loop: HL	Elements: 7

User Option (Usage): Used

Purpose: To specify pertinent dates and times

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
DTM01	374	Date/Time Qualifier	M	ID	3/3	Must use
		Description: Code specifying type of date or time, or both date and time. All valid standard codes are used. (Total Codes: 601)				
DTM02	373	Date	X	DT	6/6	Used
		Description: Date (YYMMDD).				
DTM03	337	Time	X	TM	4/8	Used
		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)				
DTM04	623	Time Code	O	ID	2/2	Used
		Description: 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. All valid standard codes are used. (Total Codes: 39)				
DTM05	624	Century	O	N0	2/2	Used
		Description: The first two characters in the designation of the year (CCYY).				
DTM06	1250	Date Time Period Format Qualifier	X	ID	2/3	Used
		Description: Code indicating the date format, time format, or date and time format. All valid standard codes are used. (Total Codes: 22)				
DTM07	1251	Date Time Period	X	AN	1/35	Used
		Description: Expression of a date, a time, or range of dates, times or dates and times.				

Syntax Rules:

1. R020306 - At least one of DTM02, DTM03 or DTM06 is required.
2. P0607 - If either DTM06 or DTM07 is present, then the other is required.

FOB F.O.B. Related Instructions

Pos: 210	Max: 1
Detail - Optional	
Loop: HL	Elements: 9

User Option (Usage): Used

Purpose: To specify transportation instructions relating to shipment

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
FOB01	146	Shipment Method of Payment	M	ID	2/2	Must use
		Description: Code identifying payment terms for transportation charges. All valid standard codes are used. (Total Codes: 28)				
FOB02	309	Location Qualifier	X	ID	1/2	Used
		Description: Code identifying type of location. All valid standard codes are used. (Total Codes: 83)				
FOB03	352	Description	O	AN	1/80	Used
		Description: A free-form description to clarify the related data elements and their content.				
FOB04	334	Transportation Terms Qualifier Code	O	ID	2/2	Used
		Description: Code identifying the source of the transportation terms. All valid standard codes are used. (Total Codes: 3)				
FOB05	335	Transportation Terms Code	X	ID	3/3	Used
		Description: Code identifying the trade terms which apply to the shipment transportation responsibility. All valid standard codes are used. (Total Codes: 26)				
FOB06	309	Location Qualifier	X	ID	1/2	Used
		Description: Code identifying type of location. All valid standard codes are used. (Total Codes: 83)				
FOB07	352	Description	O	AN	1/80	Used
		Description: A free-form description to clarify the related data elements and their content.				
FOB08	54	Risk of Loss Qualifier	O	ID	2/2	Used
		Description: Code specifying where responsibility for risk of loss passes. All valid standard codes are used. (Total Codes: 5)				
FOB09	352	Description	X	AN	1/80	Used
		Description: A free-form description to clarify the related data elements and their content.				

Syntax Rules:

1. C0302 - If FOB03 is present, then FOB02 is required.
2. C0405 - If FOB04 is present, then FOB05 is required.
3. C0706 - If FOB07 is present, then FOB06 is required.
4. C0809 - If FOB08 is present, then FOB09 is required.

Semantics:

1. FOB01 indicates which party will pay the carrier.
2. FOB02 is the code specifying transportation responsibility location.
3. FOB06 is the code specifying the title passage location.
4. FOB08 is the code specifying the point at which the risk of loss transfers. This may be different than the location specified in FOB02/FOB03 and FOB06/FOB07.

PAL Pallet Information

Pos: 215	Max: 1
Detail - Optional	
Loop: HL	Elements: 15

User Option (Usage): Used

Purpose: To identify the type and physical attributes of the pallet, and, gross weight, gross volume, and height of the load and the pallet

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
PAL01	883	Pallet Type Code	O	ID	1/2	Used
		Description: Code indicating the type of pallet. All valid standard codes are used. (Total Codes: 7)				
PAL02	884	Pallet Tiers	O	N0	1/3	Used
		Description: The number of layers per pallet.				
PAL03	885	Pallet Blocks	O	N0	1/3	Used
		Description: The number of pieces (cartons) per layer on the pallet.				
PAL04	356	Pack	O	N0	1/6	Used
		Description: Number of inner pack units per outer pack unit.				
PAL05	395	Unit Weight	X	R	1/8	Used
		Description: Numeric value of weight per unit.				
PAL06	355	Unit or Basis for Measurement Code	X	ID	2/2	Used
		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: 719)				
PAL07	82	Length	O	R	1/8	Used
		Description: Largest horizontal dimension of an object measured when the object is in the upright position.				
PAL08	189	Width	O	R	1/8	Used
		Description: Shorter measurement of the two horizontal dimensions measured with the object in the upright position.				
PAL09	65	Height	O	R	1/8	Used
		Description: Vertical dimension of an object measured when the object is in the upright position.				
PAL10	355	Unit or Basis for Measurement Code	X	ID	2/2	Used
		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: 719)				
PAL11	384	Gross Weight per Pack	X	R	1/9	Used
		Description: Numeric value of gross weight per pack.				
PAL12	355	Unit or Basis for Measurement Code	X	ID	2/2	Used

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
		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: 719)				
PAL13	385	Gross Volume per Pack	X	R	1/9	Used
		Description: Numeric value of gross volume per pack.				
PAL14	355	Unit or Basis for Measurement Code	X	ID	2/2	Used
		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: 719)				
PAL15	399	Pallet Exchange Code	O	ID	1/1	Used
		Description: Code specifying pallet exchange instructions. All valid standard codes are used. (Total Codes: 5)				

Syntax Rules:

1. P0506 - If either PAL05 or PAL06 is present, then the other is required.
2. C0710 - If PAL07 is present, then PAL10 is required.
3. C0810 - If PAL08 is present, then PAL10 is required.
4. C0910 - If PAL09 is present, then PAL10 is required.
5. P1112 - If either PAL11 or PAL12 is present, then the other is required.
6. P1314 - If either PAL13 or PAL14 is present, then the other is required.

Semantics:

1. PAL04 (PACK) is the number of pieces on the pallet.
2. PAL05 (UNIT WEIGHT) is the weight of the pallet alone, before loading.
3. PAL07 and PAL08 (LENGTH and WIDTH) are the dimensions of the pallet before loading.
4. PAL09 (HEIGHT) is the height of the pallet and load.
5. PAL11 and PAL13 (GROSS WEIGHT and GROSS VOLUME) are measured after loading and includes the pallet.

Loop Name

Pos: 220	Repeat: 200
Optional	
Loop: N1	Elements: N/A

User Option (Usage): Used

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

Loop Summary:

<u>Pos</u>	<u>Id</u>	<u>Segment Name</u>	<u>Req</u>	<u>Max Use</u>	<u>Repeat</u>	<u>Usage</u>
220	N1	Name	O	1		Used
230	N2	Additional Name Information	O	2		Used
240	N3	Address Information	O	2		Used
250	N4	Geographic Location	O	1		Used
260	REF	Reference Numbers	O	12		Used
270	PER	Administrative Communications Contact	O	3		Used
280	FOB	F.O.B. Related Instructions	O	1		Used

N1 Name

Pos: 220	Max: 1
Detail - Optional	
Loop: N1	Elements: 6

User Option (Usage): Used

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

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
N101	98	Entity Identifier Code	M	ID	2/2	Must use
		Description: Code identifying an organizational entity, a physical location, or an individual All valid standard codes are used. (Total Codes: 687)				
N102	93	Name	X	AN	1/35	Used
		Description: Free-form name.				
N103	66	Identification Code Qualifier	X	ID	1/2	Used
		Description: Code designating the system/method of code structure used for Identification Code (67). All valid standard codes are used. (Total Codes: 138)				
N104	67	Identification Code	X	AN	2/17	Used
		Description: Code identifying a party or other code.				
N105	706	Entity Relationship Code	O	ID	2/2	Used
		Description: Code describing entity relationship. All valid standard codes are used. (Total Codes: 31)				
N106	98	Entity Identifier Code	O	ID	2/2	Used
		Description: Code identifying an organizational entity, a physical location, or an individual All valid standard codes are used. (Total Codes: 687)				

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.

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.

N2 Additional Name Information

Pos: 230	Max: 2
Detail - Optional	
Loop: N1	Elements: 2

User Option (Usage): Used

Purpose: To specify additional names or those longer than 35 characters in length

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
N201	93	Name	M	AN	1/35	Must use
		Description: Free-form name.				
N202	93	Name	O	AN	1/35	Used
		Description: Free-form name.				

N3 Address Information

Pos: 240	Max: 2
Detail - Optional	
Loop: N1	Elements: 2

User Option (Usage): Used

Purpose: To specify the location of the named party

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
N301	166	Address Information	M	AN	1/35	Must use
		Description: Address information				
N302	166	Address Information	O	AN	1/35	Used
		Description: Address information				

N4 Geographic Location

Pos: 250	Max: 1
Detail - Optional	
Loop: N1	Elements: 6

User Option (Usage): Used

Purpose: To specify the geographic place of the named party

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
N401	19	City Name	O	AN	2/30	Used
		Description: Free-form text for city name.				
N402	156	State or Province Code	O	ID	2/2	Used
		Description: Code (Standard State/Province) as defined by appropriate government agency.				
N403	116	Postal Code	O	ID	3/9	Used
		Description: Code defining international postal zone code excluding punctuation and blanks (zip code for United States).				
N404	26	Country Code	O	ID	2/3	Used
		Description: Code identifying the country.				
N405	309	Location Qualifier	X	ID	1/2	Used
		Description: Code identifying type of location.				
		All valid standard codes are used. (Total Codes: 83)				
N406	310	Location Identifier	O	AN	1/30	Used
		Description: Code which identifies a specific location.				

Syntax Rules:

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

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 USA or Canada.

REF Reference Numbers

Pos: 260	Max: 12
Detail - Optional	
Loop: N1	Elements: 3

User Option (Usage): Used

Purpose: To specify identifying numbers.

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
REF01	128	Reference Number Qualifier	M	ID	2/2	Must use

Description: Code qualifying the Reference Number.

All valid standard codes are used. (Total Codes: 859)

REF02	127	Reference Number	X	AN	1/30	Used
-------	-----	------------------	---	----	------	------

Description: Reference number or identification number as defined for a particular Transaction Set, or as specified by the Reference Number Qualifier.

REF03	352	Description	X	AN	1/80	Used
-------	-----	-------------	---	----	------	------

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

Syntax Rules:

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

PER Administrative Communications Contact

Pos: 270	Max: 3
Detail - Optional	
Loop: N1	Elements: 6

User Option (Usage): Used

Purpose: To identify a person or office to whom administrative communications should be directed

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
PER01	366	Contact Function Code	M	ID	2/2	Must use
		Description: Code identifying the major duty or responsibility of the person or group named.				
		All valid standard codes are used. (Total Codes: 154)				
PER02	93	Name	O	AN	1/35	Used
		Description: Free-form name.				
PER03	365	Communication Number Qualifier	X	ID	2/2	Used
		Description: Code identifying the type of communication number.				
		All valid standard codes are used. (Total Codes: 20)				
PER04	364	Communication Number	X	AN	1/80	Used
		Description: Complete communications number including country or area code when applicable.				
PER05	365	Communication Number Qualifier	X	ID	2/2	Used
		Description: Code identifying the type of communication number.				
		All valid standard codes are used. (Total Codes: 20)				
PER06	364	Communication Number	X	AN	1/80	Used
		Description: Complete communications number including country or area code when applicable.				

Syntax Rules:

1. P0304 - If either PER03 or PER04 is present, then the other is required.
2. P0506 - If either PER05 or PER06 is present, then the other is required.

FOB F.O.B. Related Instructions

Pos: 280	Max: 1
Detail - Optional	
Loop: N1	Elements: 9

User Option (Usage): Used

Purpose: To specify transportation instructions relating to shipment

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
FOB01	146	Shipment Method of Payment	M	ID	2/2	Must use
		Description: Code identifying payment terms for transportation charges. All valid standard codes are used. (Total Codes: 28)				
FOB02	309	Location Qualifier	X	ID	1/2	Used
		Description: Code identifying type of location. All valid standard codes are used. (Total Codes: 83)				
FOB03	352	Description	O	AN	1/80	Used
		Description: A free-form description to clarify the related data elements and their content.				
FOB04	334	Transportation Terms Qualifier Code	O	ID	2/2	Used
		Description: Code identifying the source of the transportation terms. All valid standard codes are used. (Total Codes: 3)				
FOB05	335	Transportation Terms Code	X	ID	3/3	Used
		Description: Code identifying the trade terms which apply to the shipment transportation responsibility. All valid standard codes are used. (Total Codes: 26)				
FOB06	309	Location Qualifier	X	ID	1/2	Used
		Description: Code identifying type of location. All valid standard codes are used. (Total Codes: 83)				
FOB07	352	Description	O	AN	1/80	Used
		Description: A free-form description to clarify the related data elements and their content.				
FOB08	54	Risk of Loss Qualifier	O	ID	2/2	Used
		Description: Code specifying where responsibility for risk of loss passes. All valid standard codes are used. (Total Codes: 5)				
FOB09	352	Description	X	AN	1/80	Used
		Description: A free-form description to clarify the related data elements and their content.				

Syntax Rules:

1. C0302 - If FOB03 is present, then FOB02 is required.
2. C0405 - If FOB04 is present, then FOB05 is required.
3. C0706 - If FOB07 is present, then FOB06 is required.
4. C0809 - If FOB08 is present, then FOB09 is required.

Semantics:

1. FOB01 indicates which party will pay the carrier.
2. FOB02 is the code specifying transportation responsibility location.
3. FOB06 is the code specifying the title passage location.
4. FOB08 is the code specifying the point at which the risk of loss transfers. This may be different than the location specified in FOB02/FOB03 and FOB06/FOB07.

SDQ Destination Quantity

Pos: 290	Max: 50
Detail - Optional	
Loop: HL	Elements: 23

User Option (Usage): Used

Purpose: To specify destination and quantity detail.

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
SDQ01	355	Unit or Basis for Measurement Code	M	ID	2/2	Must use
		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: 719)				
SDQ02	66	Identification Code Qualifier	O	ID	1/2	Used
		Description: Code designating the system/method of code structure used for Identification Code (67).				
		All valid standard codes are used. (Total Codes: 138)				
SDQ03	67	Identification Code	M	AN	2/17	Must use
		Description: Code identifying a party or other code.				
SDQ04	380	Quantity	M	R	1/15	Must use
		Description: Numeric value of quantity.				
SDQ05	67	Identification Code	O	AN	2/17	Used
		Description: Code identifying a party or other code.				
SDQ06	380	Quantity	X	R	1/15	Used
		Description: Numeric value of quantity.				
SDQ07	67	Identification Code	O	AN	2/17	Used
		Description: Code identifying a party or other code.				
SDQ08	380	Quantity	X	R	1/15	Used
		Description: Numeric value of quantity.				
SDQ09	67	Identification Code	O	AN	2/17	Used
		Description: Code identifying a party or other code.				
SDQ10	380	Quantity	X	R	1/15	Used
		Description: Numeric value of quantity.				
SDQ11	67	Identification Code	O	AN	2/17	Used
		Description: Code identifying a party or other code.				
SDQ12	380	Quantity	X	R	1/15	Used
		Description: Numeric value of quantity.				
SDQ13	67	Identification Code	O	AN	2/17	Used
		Description: Code identifying a party or other code.				

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
SDQ14	380	Quantity	X	R	1/15	Used
		Description: Numeric value of quantity.				
SDQ15	67	Identification Code	O	AN	2/17	Used
		Description: Code identifying a party or other code.				
SDQ16	380	Quantity	X	R	1/15	Used
		Description: Numeric value of quantity.				
SDQ17	67	Identification Code	O	AN	2/17	Used
		Description: Code identifying a party or other code.				
SDQ18	380	Quantity	X	R	1/15	Used
		Description: Numeric value of quantity.				
SDQ19	67	Identification Code	O	AN	2/17	Used
		Description: Code identifying a party or other code.				
SDQ20	380	Quantity	X	R	1/15	Used
		Description: Numeric value of quantity.				
SDQ21	67	Identification Code	O	AN	2/17	Used
		Description: Code identifying a party or other code.				
SDQ22	380	Quantity	X	R	1/15	Used
		Description: Numeric value of quantity.				
SDQ23	310	Location Identifier	O	AN	1/30	Used
		Description: Code which identifies a specific location.				

Syntax Rules:

1. C0506 - If SDQ05 is present, then SDQ06 is required.
2. C0708 - If SDQ07 is present, then SDQ08 is required.
3. C0910 - If SDQ09 is present, then SDQ10 is required.
4. C1112 - If SDQ11 is present, then SDQ12 is required.
5. C1314 - If SDQ13 is present, then SDQ14 is required.
6. C1516 - If SDQ15 is present, then SDQ16 is required.
7. C1718 - If SDQ17 is present, then SDQ18 is required.
8. C1920 - If SDQ19 is present, then SDQ20 is required.
9. C2122 - If SDQ21 is present, then SDQ22 is required.

Semantics:

1. SDQ23 identifies the area within the location identified in SDQ03, SDQ05, SDQ07, SDQ09, SDQ11, SDQ13, SDQ15, SDQ17, SDQ19, and SDQ21.

Comments:

1. SDQ02 is used only if different than previously defined in the transaction set.
2. SDQ23 may be used to identify areas within a store, e.g. front room, back room, selling outpost, end aisle display, etc. The value is agreed to by trading partners or industry conventions.

ETD Excess Transportation Detail

Pos: 300	Max: 1
Detail - Optional	
Loop: HL	Elements: 5

User Option (Usage): Used

Purpose: To specify information relating to premium transportation.

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
ETD01	626	Excess Transportation Reason Code	M	ID	1/2	Must use
		Description: Code identifying the reason for shipment via premium transportation rather than the normal mode of transportation. All valid standard codes are used. (Total Codes: 23)				
ETD02	627	Excess Transportation Responsibility Code	M	ID	1/1	Must use
		Description: Code identifying the organization responsible for paying the premium transportation costs. All valid standard codes are used. (Total Codes: 5)				
ETD03	128	Reference Number Qualifier	X	ID	2/2	Used
		Description: Code qualifying the Reference Number. All valid standard codes are used. (Total Codes: 859)				
ETD04	127	Reference Number	X	AN	1/30	Used
		Description: Reference number or identification number as defined for a particular Transaction Set, or as specified by the Reference Number Qualifier.				
ETD05	743	Returnable Container Freight Payment Responsibility Code	O	ID	1/2	Used
		Description: Code specifying the responsibility for the return freight costs incurred when returnable containers are shipped in a premium transportation. All valid standard codes are used. (Total Codes: 4)				

Syntax Rules:

1. P0304 - If either ETD03 or ETD04 is present, then the other is required.

Semantics:

1. The value given in ETD03 qualifies the authorization number given in EDT04.

CUR Currency

Pos: 310	Max: 1
Detail - Optional	
Loop: HL	Elements: 21

User Option (Usage): Used

Purpose: To specify the currency (dollars, pounds, francs, etc.) used in a transaction

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
CUR01	98	Entity Identifier Code	M	ID	2/2	Must use
		Description: Code identifying an organizational entity, a physical location, or an individual All valid standard codes are used. (Total Codes: 687)				
CUR02	100	Currency Code	M	ID	3/3	Must use
		Description: Code (Standard ISO) for country in whose currency the charges are specified.				
CUR03	280	Exchange Rate	O	R	4/6	Used
		Description: Value to be used as a multiplier conversion factor to convert monetary value from one currency to another.				
CUR04	98	Entity Identifier Code	O	ID	2/2	Used
		Description: Code identifying an organizational entity, a physical location, or an individual All valid standard codes are used. (Total Codes: 687)				
CUR05	100	Currency Code	O	ID	3/3	Used
		Description: Code (Standard ISO) for country in whose currency the charges are specified.				
CUR06	669	Currency Market/Exchange Code	O	ID	3/3	Used
		Description: Code identifying the market upon which the currency exchange rate is based. All valid standard codes are used. (Total Codes: 6)				
CUR07	374	Date/Time Qualifier	X	ID	3/3	Used
		Description: Code specifying type of date or time, or both date and time. All valid standard codes are used. (Total Codes: 601)				
CUR08	373	Date	O	DT	6/6	Used
		Description: Date (YYMMDD).				
CUR09	337	Time	O	TM	4/8	Used
		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)				
CUR10	374	Date/Time Qualifier	X	ID	3/3	Used
		Description: Code specifying type of date or time, or both date and time. All valid standard codes are used. (Total Codes: 601)				
CUR11	373	Date	O	DT	6/6	Used
		Description: Date (YYMMDD).				
CUR12	337	Time	O	TM	4/8	Used

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
		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)				
CUR13	374	Date/Time Qualifier	X	ID	3/3	Used
		Description: Code specifying type of date or time, or both date and time. All valid standard codes are used. (Total Codes: 601)				
CUR14	373	Date	O	DT	6/6	Used
		Description: Date (YYMMDD).				
CUR15	337	Time	O	TM	4/8	Used
		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)				
CUR16	374	Date/Time Qualifier	X	ID	3/3	Used
		Description: Code specifying type of date or time, or both date and time. All valid standard codes are used. (Total Codes: 601)				
CUR17	373	Date	O	DT	6/6	Used
		Description: Date (YYMMDD).				
CUR18	337	Time	O	TM	4/8	Used
		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)				
CUR19	374	Date/Time Qualifier	X	ID	3/3	Used
		Description: Code specifying type of date or time, or both date and time. All valid standard codes are used. (Total Codes: 601)				
CUR20	373	Date	O	DT	6/6	Used
		Description: Date (YYMMDD).				
CUR21	337	Time	O	TM	4/8	Used
		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 Rules:

1. C0807 - If CUR08 is present, then CUR07 is required.
2. C0907 - If CUR09 is present, then CUR07 is required.
3. C1110 - If CUR11 is present, then CUR10 is required.
4. C1210 - If CUR12 is present, then CUR10 is required.
5. C1413 - If CUR14 is present, then CUR13 is required.
6. C1513 - If CUR15 is present, then CUR13 is required.

7. C1716 - If CUR17 is present, then CUR16 is required.
8. C1816 - If CUR18 is present, then CUR16 is required.
9. C2019 - If CUR20 is present, then CUR19 is required.
10. C2119 - If CUR21 is present, then CUR19 is required.

Comments:

1. See Figures Appendix for examples detailing the use of the CUR segment.

ITA Allowance, Charge or Service

Pos: 320	Max: 10
Detail - Optional	
Loop: HL	Elements: 16

User Option (Usage): Used

Purpose: To specify allowances, charges or services

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
ITA01	248	Allowance or Charge Indicator	M	ID	1/1	Must use
		Description: Code which indicates an allowance or charge for the service specified. All valid standard codes are used. (Total Codes: 4)				
ITA02	559	Agency Qualifier Code	X	ID	2/2	Used
		Description: Code identifying the agency assigning the code values. All valid standard codes are used. (Total Codes: 80)				
ITA03	560	Special Services Code	X	ID	2/10	Used
		Description: Code identifying the special service. All valid standard codes are used. (Total Codes: 151)				
ITA04	331	Allowance or Charge Method of Handling Code	M	ID	2/2	Must use
		Description: Code indicating method of handling for an allowance or charge. All valid standard codes are used. (Total Codes: 14)				
ITA05	341	Allowance or Charge Number	O	AN	1/16	Used
		Description: The number assigned by a vendor referencing an allowance, promotion, deal or charge.				
ITA06	359	Allowance or Charge Rate	O	R	1/9	Used
		Description: Allowance or Charge Rate per Unit.				
ITA07	360	Allowance or Charge Total Amount	O	N2	1/9	Used
		Description: Total dollar amount for the allowance or charge.				
ITA08	378	Allowance/ Charge Percent Qualifier	O	ID	1/1	Used
		Description: Code indicating on what basis allowance or charge percent is calculated. All valid standard codes are used. (Total Codes: 10)				
ITA09	332	Allowance or Charge Percent	X	R	1/6	Used
		Description: Allowance or charge expressed as a percent.				
ITA10	339	Allowance or Charge Quantity	O	R	1/10	Used
		Description: Quantity basis when allowance or charge quantity is different from the purchase order or invoice quantity.				
ITA11	355	Unit or Basis for Measurement Code	X	ID	2/2	Used
		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: 719)				

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
ITA12	380	Quantity	O	R	1/15	Used
		Description: Numeric value of quantity.				
ITA13	352	Description	X	AN	1/80	Used
		Description: A free-form description to clarify the related data elements and their content.				
ITA14	150	Special Charge or Allowance Code	X	ID	3/3	Used
		Description: Code identifying type of special charge or allowance. All valid standard codes are used. (Total Codes: 911)				
ITA15	822	Source Subqualifier	O	AN	1/15	Used
		Description: A reference that indicates the table or text maintained by the Source Qualifier.				
ITA16	662	Price Relationship Code	O	ID	1/1	Used
		Description: Code indicating the relationship of the price or amount to the associated segment. All valid standard codes are used. (Total Codes: 4)				

Syntax Rules:

1. L02031314 - If ITA02 is present, then at least one of ITA03, ITA13 or ITA14 is required.
2. C0809 - If ITA08 is present, then ITA09 is required.
3. C1011 - If ITA10 is present, then ITA11 is required.
4. C1502 - If ITA15 is present, then ITA02 is required.

Semantics:

1. ITA12 is the quantity of free goods.

Comments:

1. If ITA01 = A-Allowance or C-Charge, then at least one of ITA06, ITA07, or ITA08 must be present.
2. ITA02 identifies the source of the code value in ITA03 or ITA15.
3. If ITA07 is present with either ITA06 or ITA08, then ITA07 takes precedence.
4. ITA13 is used to clarify the allowance, charge or service.
5. ITA15 specifies the individual code list of the agency specified in ITA02.
6. ITA16 describes the relationship of ITA06, ITA07 or ITA09 to an associated segment.

GF Furnished Goods and Services

Pos: 330	Max: 1
Detail - Optional	
Loop: HL	Elements: 9

User Option (Usage): Used

Purpose: To specify information related to furnished material, equipment, property, information, and services.

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
GF01	128	Reference Number Qualifier	X	ID	2/2	Used
		Description: Code qualifying the Reference Number. All valid standard codes are used. (Total Codes: 859)				
GF02	127	Reference Number	X	AN	1/30	Used
		Description: Reference number or identification number as defined for a particular Transaction Set, or as specified by the Reference Number Qualifier.				
GF03	367	Contract Number	O	AN	1/30	Used
		Description: Contract number.				
GF04	782	Monetary Amount	O	R	1/15	Used
		Description: Monetary amount.				
GF05	128	Reference Number Qualifier	X	ID	2/2	Used
		Description: Code qualifying the Reference Number. All valid standard codes are used. (Total Codes: 859)				
GF06	127	Reference Number	X	AN	1/30	Used
		Description: Reference number or identification number as defined for a particular Transaction Set, or as specified by the Reference Number Qualifier.				
GF07	328	Release Number	O	AN	1/30	Used
		Description: Number identifying a release against a Purchase Order previously placed by the parties involved in the transaction.				
GF08	128	Reference Number Qualifier	X	ID	2/2	Used
		Description: Code qualifying the Reference Number. All valid standard codes are used. (Total Codes: 859)				
GF09	127	Reference Number	X	AN	1/30	Used
		Description: Reference number or identification number as defined for a particular Transaction Set, or as specified by the Reference Number Qualifier.				

Syntax Rules:

1. P0102 - If either GF01 or GF02 is present, then the other is required.
2. P0506 - If either GF05 or GF06 is present, then the other is required.
3. P0809 - If either GF08 or GF09 is present, then the other is required.

Semantics:

1. GF04 is the value of government-furnished property

Loop Code Source Information

Pos: 340	Repeat: 10
Optional	
Loop: LM	Elements: N/A

User Option (Usage): Used

Purpose: To transmit standard code list identification information

Loop Summary:

<u>Pos</u>	<u>Id</u>	<u>Segment Name</u>	<u>Req</u>	<u>Max Use</u>	<u>Repeat</u>	<u>Usage</u>
340	LM	Code Source Information	O	1		Used
350	LQ	Industry Code	M	100		Must use

LM Code Source Information

Pos: 340	Max: 1
Detail - Optional	
Loop: LM	Elements: 2

User Option (Usage): Used

Purpose: To transmit standard code list identification information

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
LM01	559	Agency Qualifier Code	M	ID	2/2	Must use

Description: Code identifying the agency assigning the code values.

All valid standard codes are used. (Total Codes: 80)

LM02	822	Source Subqualifier	O	AN	1/15	Used
------	-----	----------------------------	---	----	------	------

Description: A reference that indicates the table or text maintained by the Source Qualifier.

Comments:

1. LM02 identifies the applicable industry code list source information.

LQ Industry Code

Pos: 350	Max: 100
Detail - Mandatory	
Loop: LM	Elements: 2

User Option (Usage): Must use

Purpose: Code to transmit standard industry codes

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
LQ01	1270	Code List Qualifier Code	O	ID	1/3	Used
		Description: Code identifying a specific industry code list All valid standard codes are used. (Total Codes: 183)				
LQ02	1271	Industry Code	X	AN	1/20	Used
		Description: Code indicating a code from a specific industry code list				

Syntax Rules:

1. C0102 - If LQ01 is present, then LQ02 is required.

CTT Transaction Totals

Pos: 010	Max: 1
Summary - Optional	
Loop: N/A	Elements: 7

User Option (Usage): Used

Purpose: To transmit a hash total for a specific element in the transaction set

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
CTT01	354	Number of Line Items	M	N0	1/6	Must use

Description: Total number of line items in the transaction set.

CTT02	347	Hash Total	O	R	1/10	Used
-------	-----	-------------------	---	---	------	------

Description: 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.

CTT03	81	Weight	O	R	1/10	Used
-------	----	---------------	---	---	------	------

Description: Numeric value of weight.

CTT04	355	Unit or Basis for Measurement Code	X	ID	2/2	Used
-------	-----	---	---	----	-----	------

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: 719)

CTT05	183	Volume	O	R	1/8	Used
-------	-----	---------------	---	---	-----	------

Description: Value of volumetric measure.

CTT06	355	Unit or Basis for Measurement Code	X	ID	2/2	Used
-------	-----	---	---	----	-----	------

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: 719)

CTT07	352	Description	O	AN	1/80	Used
-------	-----	--------------------	---	----	------	------

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

Syntax Rules:

1. C0304 - If CTT03 is present, then CTT04 is required.
2. C0506 - If CTT05 is present, then CTT06 is required.

Comments:

1. This segment is intended to provide hash totals to validate transaction completeness and correctness.

SE Transaction Set Trailer

Pos: 020	Max: 1
Summary - Mandatory	
Loop: N/A	Elements: 2

User Option (Usage): Must use

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).

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
SE01	96	Number of Included Segments	M	N0	1/10	Must use

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

SE02	329	Transaction Set Control Number	M	AN	4/9	Must use
------	-----	--------------------------------	---	----	-----	----------

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.