

# 856

## Ship Notice/Manifest

### Functional Group=SH

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

#### Not Defined:

<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>
	ISA	Interchange Control Header	M	1			Must use
	GS	Functional Group Header	M	1			Must use

#### 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
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>
<b>LOOP ID - HL</b>			-	-	<b>200000</b>	<b>C2/010L</b>	-
010	HL	Hierarchical Level	M	1		C2/010	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
145	TSD	Trailer Shipment Details	O	1			Used
150	REF	Reference Identification	O	>1			Used
151	PER	Administrative Communications Contact	O	3			Used

<b>LOOP ID - LH1</b>				<b>100</b>		
152	LH1	Hazardous Identification Information	O	1		Used
153	LH2	Hazardous Classification Information	O	4		Used
154	LH3	Hazardous Material Shipping Name	O	12		Used
155	LFH	Freeform Hazardous Material Information	O	20		Used
156	LEP	EPA Required Data	O	>1		Used
157	LH4	Canadian Dangerous Requirements	O	1		Used
158	LHT	Transborder Hazardous Requirements	O	3		Used
159	LHR	Hazardous Material Identifying Reference Numbers	O	10		Used
160	PER	Administrative Communications Contact	O	5		Used
161	LHE	Empty Equipment Hazardous Material Information	O	1		Used
<b>LOOP ID - CLD</b>				<b>200</b>		
170	CLD	Load Detail	O	1		Used
180	REF	Reference Identification	O	200		Used
185	DTP	Date or Time or Period	O	1		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
<b>LOOP ID - N1</b>				<b>200</b>		
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 Identification	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
<b>LOOP ID - SAC</b>				<b>&gt;1</b>		
320	SAC	Service, Promotion, Allowance, or Charge Information	O	1		Used
325	CUR	Currency	O	1		Used
330	GF	Furnished Goods and Services	O	1		Used
335	YNQ	Yes/No Question	O	10		Used
<b>LOOP ID - LM</b>				<b>10</b>		
340	LM	Code Source Information	O	1		Used
350	LQ	Industry Code	M	100		Must use
<b>LOOP ID - V1</b>				<b>&gt;1</b>		
360	V1	Vessel Identification	O	1		Used
370	R4	Port or Terminal	O	>1		Used

380	DTM	Date/Time Reference	O	>1		Used
-----	-----	---------------------	---	----	--	------

**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

**Not Defined:**

<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>
	GE	Functional Group Trailer	M	1			Must use
	IEA	Interchange Control 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.
- 2/010 The HL segment is the only mandatory segment within the HL loop, and by itself, the HL segment has no meaning.

# ISA Interchange Control Header

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

**User Option (Usage):** Must use

To start and identify an interchange of zero or more functional groups and interchange-related control 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>
ISA01	I01	<b>Authorization Information Qualifier</b> <b>Description:</b> Code identifying the type of information in the Authorization Information <b>All valid standard codes are used.</b>	M	ID	2/2	Must use
ISA02	I02	<b>Authorization Information</b> <b>Description:</b> Information used for additional identification or authorization of the interchange sender or the data in the interchange; the type of information is set by the Authorization Information Qualifier (I01)	M	AN	10/10	Must use
ISA03	I03	<b>Security Information Qualifier</b> <b>Description:</b> Code identifying the type of information in the Security Information <b>All valid standard codes are used.</b>	M	ID	2/2	Must use
ISA04	I04	<b>Security Information</b> <b>Description:</b> This is used for identifying the security information about the interchange sender or the data in the interchange; the type of information is set by the Security Information Qualifier (I03)	M	AN	10/10	Must use
ISA05	I05	<b>Interchange ID Qualifier</b> <b>Description:</b> Code indicating the system/method of code structure used to designate the sender or receiver ID element being qualified <b>All valid standard codes are used.</b>	M	ID	2/2	Must use
ISA06	I06	<b>Interchange Sender ID</b> <b>Description:</b> Identification code published by the sender for other parties to use as the receiver ID to route data to them; the sender always codes this value in the sender ID element	M	AN	15/15	Must use
ISA07	I05	<b>Interchange ID Qualifier</b> <b>Description:</b> Code indicating the system/method of code structure used to designate the sender or receiver ID element being qualified <b>All valid standard codes are used.</b>	M	ID	2/2	Must use
ISA08	I07	<b>Interchange Receiver ID</b> <b>Description:</b> Identification code published by the receiver of the data; When sending, it is used by the sender as their sending ID, thus other parties sending to them will use this as a receiving ID to route data to them	M	AN	15/15	Must use

ISA09	I08	<b>Interchange Date</b> <b>Description:</b> Date of the interchange	M	DT	6/6	Must use
ISA10	I09	<b>Interchange Time</b> <b>Description:</b> Time of the interchange	M	TM	4/4	Must use
ISA11	I65	<b>Repetition Separator</b> <b>Description:</b> Type is not applicable; the repetition separator is a delimiter and not a data element; this field provides the delimiter used to separate repeated occurrences of a simple data element or a composite data structure; this value must be different than the data element separator, component element separator, and the segment terminator	M		1/1	Must use
ISA12	I11	<b>Interchange Control Version Number</b> <b>Description:</b> Code specifying the version number of the interchange control segments <b>All valid standard codes are used.</b>	M	ID	5/5	Must use
ISA13	I12	<b>Interchange Control Number</b> <b>Description:</b> A control number assigned by the interchange sender	M	NO	9/9	Must use
ISA14	I13	<b>Acknowledgment Requested</b> <b>Description:</b> Code indicating sender's request for an interchange acknowledgment <b>All valid standard codes are used.</b>	M	ID	1/1	Must use
ISA15	I14	<b>Interchange Usage Indicator</b> <b>Description:</b> Code indicating whether data enclosed by this interchange envelope is test, production or information <b>All valid standard codes are used.</b>	M	ID	1/1	Must use
ISA16	I15	<b>Component Element Separator</b> <b>Description:</b> Type is not applicable; the component element separator is a delimiter and not a data element; this field provides the delimiter used to separate component data elements within a composite data structure; this value must be different than the data element separator and the segment terminator	M		1/1	Must use

# GS Functional Group Header

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

**User Option (Usage):** Must use

To indicate the beginning of a functional group and to provide control 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>
GS01	479	<b>Functional Identifier Code</b> <b>Description:</b> Code identifying a group of application related transaction sets <b>All valid standard codes are used.</b>	M	ID	2/2	Must use
GS02	142	<b>Application Sender's Code</b> <b>Description:</b> Code identifying party sending transmission; codes agreed to by trading partners	M	AN	2/15	Must use
GS03	124	<b>Application Receiver's Code</b> <b>Description:</b> Code identifying party receiving transmission; codes agreed to by trading partners	M	AN	2/15	Must use
GS04	373	<b>Date</b> <b>Description:</b> Date expressed as CCYYMMDD where CC represents the first two digits of the calendar year	M	DT	8/8	Must use
GS05	337	<b>Time</b> <b>Description:</b> Time expressed in 24-hour clock time as follows: HHMM, or HHMMSS, or HHMMSSD, or HHMMSSDD, where H = hours (00-23), M = minutes (00-59), S = integer seconds (00-59) and DD = decimal seconds; decimal seconds are expressed as follows: D = tenths (0-9) and DD = hundredths (00-99)	M	TM	4/8	Must use
GS06	28	<b>Group Control Number</b> <b>Description:</b> Assigned number originated and maintained by the sender	M	NO	1/9	Must use
GS07	455	<b>Responsible Agency Code</b> <b>Description:</b> Code identifying the issuer of the standard; this code is used in conjunction with Data Element 480 <b>All valid standard codes are used.</b>	M	ID	1/2	Must use
GS08	480	<b>Version / Release / Industry Identifier Code</b> <b>Description:</b> Code indicating the version, release, subrelease, and industry identifier of the EDI standard being used, including the GS and GE segments; if code in DE455 in GS segment is X, then in DE 480 positions 1-3 are the version number; positions 4-6 are the release and subrelease, level of the version; and positions 7-12 are the industry or trade association identifiers (optionally assigned by user); if code in DE455 in GS	M	AN	1/12	Must use

segment is T, then other formats are allowed  
**All valid standard codes are used.**

**Semantics:**

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

**Comments:**

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

# ST Transaction Set Header

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

**User Option (Usage):** Must use

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	<b>Transaction Set Identifier Code</b> <b>Description:</b> Code uniquely identifying a Transaction Set <b>All valid standard codes are used.</b>	M	ID	3/3	Must use
ST02	329	<b>Transaction Set Control Number</b> <b>Description:</b> Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set	M	AN	4/9	Must use

## 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

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	<b>Transaction Set Purpose Code</b> <b>Description:</b> Code identifying purpose of transaction set <b>All valid standard codes are used.</b>	M	ID	2/2	Must use
BSN02	396	<b>Shipment Identification</b> <b>Description:</b> A unique control number assigned by the original shipper to identify a specific shipment	M	AN	2/30	Must use
BSN03	373	<b>Date</b> <b>Description:</b> Date expressed as CCYYMMDD	M	DT	8/8	Must use
BSN04	337	<b>Time</b> <b>Description:</b> Time expressed in 24-hour clock time as follows: HHMM, or HHMMSS, or HHMMSSD, or HHMMSSDD, where H = hours (00-23), M = minutes (00-59), S = integer seconds (00-59) and DD = decimal seconds; decimal seconds are expressed as follows: D = tenths (0-9) and DD = hundredths (00-99)	M	TM	4/8	Must use
BSN05	1005	<b>Hierarchical Structure Code</b> <b>Description:</b> Code indicating the hierarchical application structure of a transaction set that utilizes the HL segment to define the structure of the transaction set <b>All valid standard codes are used.</b>	O	ID	4/4	Used
BSN06	640	<b>Transaction Type Code</b> <b>Description:</b> Code specifying the type of transaction <b>All valid standard codes are used.</b>	X	ID	2/2	Used
BSN07	641	<b>Status Reason Code</b> <b>Description:</b> Code indicating the status reason <b>All valid standard codes are used.</b>	O	ID	3/3	Used

## 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.

# DTM Date/Time Reference

Pos: 040	Max: 10
Heading - Optional	
Loop: N/A	Elements: 6

**User Option (Usage):** Used

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	<b>Date/Time Qualifier</b> <b>Description:</b> Code specifying type of date or time, or both date and time <b>All valid standard codes are used.</b>	M	ID	3/3	Must use
DTM02	373	<b>Date</b> <b>Description:</b> Date expressed as CCYYMMDD	X	DT	8/8	Used
DTM03	337	<b>Time</b> <b>Description:</b> 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)	X	TM	4/8	Used
DTM04	623	<b>Time Code</b> <b>Description:</b> 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 <b>All valid standard codes are used.</b>	O	ID	2/2	Used
DTM05	1250	<b>Date Time Period Format Qualifier</b> <b>Description:</b> Code indicating the date format, time format, or date and time format <b>All valid standard codes are used.</b>	X	ID	2/3	Used
DTM06	1251	<b>Date Time Period</b> <b>Description:</b> Expression of a date, a time, or range of dates, times or dates and times	X	AN	1/35	Used

## Syntax Rules:

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

# Loop HL

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

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
145	TSD	Trailer Shipment Details	O	1		Used
150	REF	Reference Identification	O	>1		Used
151	PER	Administrative Communications Contact	O	3		Used
152		Loop LH1	O		100	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		Loop SAC	O		>1	Used
330	GF	Furnished Goods and Services	O	1		Used
335	YNQ	Yes/No Question	O	10		Used
340		Loop LM	O		10	Used
360		Loop V1	O		>1	Used

**HL****Hierarchical Level**

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

**User Option (Usage):** Must use

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	<b>Hierarchical ID Number</b> <b>Description:</b> A unique number assigned by the sender to identify a particular data segment in a hierarchical structure	M	AN	1/12	Must use
HL02	734	<b>Hierarchical Parent ID Number</b> <b>Description:</b> Identification number of the next higher hierarchical data segment that the data segment being described is subordinate to	O	AN	1/12	Used
HL03	735	<b>Hierarchical Level Code</b> <b>Description:</b> Code defining the characteristic of a level in a hierarchical structure <b>All valid standard codes are used.</b>	M	ID	1/2	Must use
HL04	736	<b>Hierarchical Child Code</b> <b>Description:</b> Code indicating if there are hierarchical child data segments subordinate to the level being described <b>All valid standard codes are used.</b>	O	ID	1/1	Used

**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. The HL segment defines a top-down/left-right ordered structure.
3. HL01 shall contain a unique alphanumeric number for each occurrence of the HL segment in the transaction set. For example, HL01 could be used to indicate the number of occurrences of the HL segment, in which case the value of HL01 would be "1" for the initial HL segment and would be incremented by one in each subsequent HL segment within the transaction.
4. HL02 identifies the hierarchical ID number of the HL segment to which the current HL segment is subordinate.
5. HL03 indicates the context of the series of segments following the current HL segment up to the next occurrence of an HL segment in the transaction. For example, HL03 is used to indicate that subsequent segments in the HL loop form a logical grouping of data referring to shipment, order, or item-level information.
6. HL04 indicates whether or not there are subordinate (or child) HL segments related to the current HL segment.

# LIN Item Identification

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

**User Option (Usage):** Used

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	<b>Assigned Identification</b> <b>Description:</b> Alphanumeric characters assigned for differentiation within a transaction set	O	AN	1/20	Used
LIN02	235	<b>Product/Service ID Qualifier</b> <b>Description:</b> Code identifying the type/source of the descriptive number used in Product/Service ID (234) <b>All valid standard codes are used.</b>	M	ID	2/2	Must use
LIN03	234	<b>Product/Service ID</b> <b>Description:</b> Identifying number for a product or service	M	AN	1/48	Must use
LIN04	235	<b>Product/Service ID Qualifier</b> <b>Description:</b> Code identifying the type/source of the descriptive number used in Product/Service ID (234) <b>All valid standard codes are used.</b>	X	ID	2/2	Used
LIN05	234	<b>Product/Service ID</b> <b>Description:</b> Identifying number for a product or service	X	AN	1/48	Used
LIN06	235	<b>Product/Service ID Qualifier</b> <b>Description:</b> Code identifying the type/source of the descriptive number used in Product/Service ID (234) <b>All valid standard codes are used.</b>	X	ID	2/2	Used
LIN07	234	<b>Product/Service ID</b> <b>Description:</b> Identifying number for a product or service	X	AN	1/48	Used
LIN08	235	<b>Product/Service ID Qualifier</b> <b>Description:</b> Code identifying the type/source of the descriptive number used in Product/Service ID (234) <b>All valid standard codes are used.</b>	X	ID	2/2	Used
LIN09	234	<b>Product/Service ID</b> <b>Description:</b> Identifying number for a product or service	X	AN	1/48	Used
LIN10	235	<b>Product/Service ID Qualifier</b> <b>Description:</b> Code identifying the type/source of the descriptive number used in Product/Service ID (234) <b>All valid standard codes are used.</b>	X	ID	2/2	Used
LIN11	234	<b>Product/Service ID</b> <b>Description:</b> Identifying number for a product or service	X	AN	1/48	Used

LIN12	235	<b>Product/Service ID Qualifier</b> <b>Description:</b> Code identifying the type/source of the descriptive number used in Product/Service ID (234) <b>All valid standard codes are used.</b>	X	ID	2/2	Used
LIN13	234	<b>Product/Service ID</b> <b>Description:</b> Identifying number for a product or service	X	AN	1/48	Used
LIN14	235	<b>Product/Service ID Qualifier</b> <b>Description:</b> Code identifying the type/source of the descriptive number used in Product/Service ID (234) <b>All valid standard codes are used.</b>	X	ID	2/2	Used
LIN15	234	<b>Product/Service ID</b> <b>Description:</b> Identifying number for a product or service	X	AN	1/48	Used
LIN16	235	<b>Product/Service ID Qualifier</b> <b>Description:</b> Code identifying the type/source of the descriptive number used in Product/Service ID (234) <b>All valid standard codes are used.</b>	X	ID	2/2	Used
LIN17	234	<b>Product/Service ID</b> <b>Description:</b> Identifying number for a product or service	X	AN	1/48	Used
LIN18	235	<b>Product/Service ID Qualifier</b> <b>Description:</b> Code identifying the type/source of the descriptive number used in Product/Service ID (234) <b>All valid standard codes are used.</b>	X	ID	2/2	Used
LIN19	234	<b>Product/Service ID</b> <b>Description:</b> Identifying number for a product or service	X	AN	1/48	Used
LIN20	235	<b>Product/Service ID Qualifier</b> <b>Description:</b> Code identifying the type/source of the descriptive number used in Product/Service ID (234) <b>All valid standard codes are used.</b>	X	ID	2/2	Used
LIN21	234	<b>Product/Service ID</b> <b>Description:</b> Identifying number for a product or service	X	AN	1/48	Used
LIN22	235	<b>Product/Service ID Qualifier</b> <b>Description:</b> Code identifying the type/source of the descriptive number used in Product/Service ID (234) <b>All valid standard codes are used.</b>	X	ID	2/2	Used
LIN23	234	<b>Product/Service ID</b> <b>Description:</b> Identifying number for a product or service	X	AN	1/48	Used
LIN24	235	<b>Product/Service ID Qualifier</b> <b>Description:</b> Code identifying the type/source of the descriptive number used in Product/Service ID (234) <b>All valid standard codes are used.</b>	X	ID	2/2	Used
LIN25	234	<b>Product/Service ID</b> <b>Description:</b> Identifying number for a product or service	X	AN	1/48	Used
LIN26	235	<b>Product/Service ID Qualifier</b> <b>Description:</b> Code identifying the type/source of the descriptive number used in Product/Service ID (234)	X	ID	2/2	Used

LIN27	234	<b>All valid standard codes are used.</b> <b>Product/Service ID</b> <b>Description:</b> Identifying number for a product or service	X	AN	1/48	Used
LIN28	235	<b>Product/Service ID Qualifier</b> <b>Description:</b> Code identifying the type/source of the descriptive number used in Product/Service ID (234)	X	ID	2/2	Used
LIN29	234	<b>All valid standard codes are used.</b> <b>Product/Service ID</b> <b>Description:</b> Identifying number for a product or service	X	AN	1/48	Used
LIN30	235	<b>Product/Service ID Qualifier</b> <b>Description:</b> Code identifying the type/source of the descriptive number used in Product/Service ID (234)	X	ID	2/2	Used
LIN31	234	<b>All valid standard codes are used.</b> <b>Product/Service ID</b> <b>Description:</b> Identifying number for a product or service	X	AN	1/48	Used

### Syntax Rules:

1. P0405 - If either LIN04 or LIN05 is present, then the other is required.
2. P0607 - If either LIN06 or LIN07 is present, then the other is required.
3. P0809 - If either LIN08 or LIN09 is present, then the other is required.
4. P1011 - If either LIN10 or LIN11 is present, then the other is required.
5. P1213 - If either LIN12 or LIN13 is present, then the other is required.
6. P1415 - If either LIN14 or LIN15 is present, then the other is required.
7. P1617 - If either LIN16 or LIN17 is present, then the other is required.
8. P1819 - If either LIN18 or LIN19 is present, then the other is required.
9. P2021 - If either LIN20 or LIN21 is present, then the other is required.
10. P2223 - If either LIN22 or LIN23 is present, then the other is required.
11. P2425 - If either LIN24 or LIN25 is present, then the other is required.
12. P2627 - If either LIN26 or LIN27 is present, then the other is required.
13. P2829 - If either LIN28 or LIN29 is present, then the other is required.
14. P3031 - If either LIN30 or LIN31 is present, then the other is required.

### Semantics:

1. LIN01 is the line item identification

### Comments:

1. See the Data Dictionary for a complete list of IDs.
2. LIN02 through LIN31 provide for fifteen different product/service IDs for each item. For example: Case, Color, Drawing No., U.P.C. No., ISBN No., Model No., or SKU.

# SN1 Item Detail (Shipment)

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

**User Option (Usage):** Used

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	<b>Assigned Identification</b> <b>Description:</b> Alphanumeric characters assigned for differentiation within a transaction set	O	AN	1/20	Used
SN102	382	<b>Number of Units Shipped</b> <b>Description:</b> Numeric value of units shipped in manufacturer's shipping units for a line item or transaction set	M	R	1/10	Must use
SN103	355	<b>Unit or Basis for Measurement Code</b> <b>Description:</b> Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken <b>All valid standard codes are used.</b>	M	ID	2/2	Must use
SN104	646	<b>Quantity Shipped to Date</b> <b>Description:</b> Number of units shipped to date	O	R	1/15	Used
SN105	330	<b>Quantity Ordered</b> <b>Description:</b> Quantity ordered	X	R	1/15	Used
SN106	355	<b>Unit or Basis for Measurement Code</b> <b>Description:</b> Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken <b>All valid standard codes are used.</b>	X	ID	2/2	Used
SN107	728	<b>Returnable Container Load Make-Up Code</b> <b>Description:</b> Code identifying the load make-up of the returnable containers in the shipment <b>All valid standard codes are used.</b>	O	ID	1/2	Used
SN108	668	<b>Line Item Status Code</b> <b>Description:</b> Code specifying the action taken by the seller on a line item requested by the buyer <b>All valid standard codes are used.</b>	O	ID	2/2	Used

## Syntax Rules:

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

## Semantics:

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

## Comments:

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

# SLN Subline Item Detail

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

**User Option (Usage):** Used

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	<b>Assigned Identification</b> <b>Description:</b> Alphanumeric characters assigned for differentiation within a transaction set	M	AN	1/20	Must use
SLN02	350	<b>Assigned Identification</b> <b>Description:</b> Alphanumeric characters assigned for differentiation within a transaction set	O	AN	1/20	Used
SLN03	662	<b>Relationship Code</b> <b>Description:</b> Code indicating the relationship between entities <b>All valid standard codes are used.</b>	M	ID	1/1	Must use
SLN04	380	<b>Quantity</b> <b>Description:</b> Numeric value of quantity	X	R	1/15	Used
SLN05	C001	<b>Composite Unit of Measure</b> <b>Description:</b> To identify a composite unit of measure(See Figures Appendix for examples of use)	X	Comp		Used
	355	<b>Unit or Basis for Measurement Code</b> <b>Description:</b> Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken <b>All valid standard codes are used.</b>	M	ID	2/2	Must use
	1018	<b>Exponent</b> <b>Description:</b> Power to which a unit is raised	O	R	1/15	Used
	649	<b>Multiplier</b> <b>Description:</b> Value to be used as a multiplier to obtain a new value	O	R	1/10	Used
	355	<b>Unit or Basis for Measurement Code</b> <b>Description:</b> Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken <b>All valid standard codes are used.</b>	O	ID	2/2	Used
	1018	<b>Exponent</b> <b>Description:</b> Power to which a unit is raised	O	R	1/15	Used
	649	<b>Multiplier</b> <b>Description:</b> Value to be used as a multiplier to obtain a new value	O	R	1/10	Used
	355	<b>Unit or Basis for Measurement Code</b> <b>Description:</b> Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken <b>All valid standard codes are used.</b>	O	ID	2/2	Used

	1018	<b>Exponent</b> <b>Description:</b> Power to which a unit is raised	O	R	1/15	Used
	649	<b>Multiplier</b> <b>Description:</b> Value to be used as a multiplier to obtain a new value	O	R	1/10	Used
	355	<b>Unit or Basis for Measurement Code</b> <b>Description:</b> Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken <b>All valid standard codes are used.</b>	O	ID	2/2	Used
	1018	<b>Exponent</b> <b>Description:</b> Power to which a unit is raised	O	R	1/15	Used
	649	<b>Multiplier</b> <b>Description:</b> Value to be used as a multiplier to obtain a new value	O	R	1/10	Used
	355	<b>Unit or Basis for Measurement Code</b> <b>Description:</b> Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken <b>All valid standard codes are used.</b>	O	ID	2/2	Used
	1018	<b>Exponent</b> <b>Description:</b> Power to which a unit is raised	O	R	1/15	Used
	649	<b>Multiplier</b> <b>Description:</b> Value to be used as a multiplier to obtain a new value	O	R	1/10	Used
SLN06	212	<b>Unit Price</b> <b>Description:</b> Price per unit of product, service, commodity, etc.	X	R	1/17	Used
SLN07	639	<b>Basis of Unit Price Code</b> <b>Description:</b> Code identifying the type of unit price for an item <b>All valid standard codes are used.</b>	O	ID	2/2	Used
SLN08	662	<b>Relationship Code</b> <b>Description:</b> Code indicating the relationship between entities <b>All valid standard codes are used.</b>	O	ID	1/1	Used
SLN09	235	<b>Product/Service ID Qualifier</b> <b>Description:</b> Code identifying the type/source of the descriptive number used in Product/Service ID (234) <b>All valid standard codes are used.</b>	X	ID	2/2	Used
SLN10	234	<b>Product/Service ID</b> <b>Description:</b> Identifying number for a product or service	X	AN	1/48	Used
SLN11	235	<b>Product/Service ID Qualifier</b> <b>Description:</b> Code identifying the type/source of the descriptive number used in Product/Service ID (234) <b>All valid standard codes are used.</b>	X	ID	2/2	Used
SLN12	234	<b>Product/Service ID</b> <b>Description:</b> Identifying number for a product or service	X	AN	1/48	Used
SLN13	235	<b>Product/Service ID Qualifier</b> <b>Description:</b> Code identifying the type/source of the descriptive number used in Product/Service ID (234) <b>All valid standard codes are used.</b>	X	ID	2/2	Used
SLN14	234	<b>Product/Service ID</b> <b>Description:</b> Identifying number for a product or service	X	AN	1/48	Used

SLN15	235	<b>Product/Service ID Qualifier</b> <b>Description:</b> Code identifying the type/source of the descriptive number used in Product/Service ID (234) <b>All valid standard codes are used.</b>	X	ID	2/2	Used
SLN16	234	<b>Product/Service ID</b> <b>Description:</b> Identifying number for a product or service	X	AN	1/48	Used
SLN17	235	<b>Product/Service ID Qualifier</b> <b>Description:</b> Code identifying the type/source of the descriptive number used in Product/Service ID (234) <b>All valid standard codes are used.</b>	X	ID	2/2	Used
SLN18	234	<b>Product/Service ID</b> <b>Description:</b> Identifying number for a product or service	X	AN	1/48	Used
SLN19	235	<b>Product/Service ID Qualifier</b> <b>Description:</b> Code identifying the type/source of the descriptive number used in Product/Service ID (234) <b>All valid standard codes are used.</b>	X	ID	2/2	Used
SLN20	234	<b>Product/Service ID</b> <b>Description:</b> Identifying number for a product or service	X	AN	1/48	Used
SLN21	235	<b>Product/Service ID Qualifier</b> <b>Description:</b> Code identifying the type/source of the descriptive number used in Product/Service ID (234) <b>All valid standard codes are used.</b>	X	ID	2/2	Used
SLN22	234	<b>Product/Service ID</b> <b>Description:</b> Identifying number for a product or service	X	AN	1/48	Used
SLN23	235	<b>Product/Service ID Qualifier</b> <b>Description:</b> Code identifying the type/source of the descriptive number used in Product/Service ID (234) <b>All valid standard codes are used.</b>	X	ID	2/2	Used
SLN24	234	<b>Product/Service ID</b> <b>Description:</b> Identifying number for a product or service	X	AN	1/48	Used
SLN25	235	<b>Product/Service ID Qualifier</b> <b>Description:</b> Code identifying the type/source of the descriptive number used in Product/Service ID (234) <b>All valid standard codes are used.</b>	X	ID	2/2	Used
SLN26	234	<b>Product/Service ID</b> <b>Description:</b> Identifying number for a product or service	X	AN	1/48	Used
SLN27	235	<b>Product/Service ID Qualifier</b> <b>Description:</b> Code identifying the type/source of the descriptive number used in Product/Service ID (234) <b>All valid standard codes are used.</b>	X	ID	2/2	Used
SLN28	234	<b>Product/Service ID</b> <b>Description:</b> Identifying number for a product or service	X	AN	1/48	Used

### Syntax Rules:

1. P0405 - If either SLN04 or SLN05 is present, then the other is required.

2. C0706 - If SLN07 is present, then SLN06 is required.
3. C0806 - If SLN08 is present, then SLN06 is required.
4. P0910 - If either SLN09 or SLN10 is present, then the other is required.
5. P1112 - If either SLN11 or SLN12 is present, then the other is required.
6. P1314 - If either SLN13 or SLN14 is present, then the other is required.
7. P1516 - If either SLN15 or SLN16 is present, then the other is required.
8. P1718 - If either SLN17 or SLN18 is present, then the other is required.
9. P1920 - If either SLN19 or SLN20 is present, then the other is required.
10. P2122 - If either SLN21 or SLN22 is present, then the other is required.
11. P2324 - If either SLN23 or SLN24 is present, then the other is required.
12. P2526 - If either SLN25 or SLN26 is present, then the other is required.
13. P2728 - If either SLN27 or SLN28 is present, then the other 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.
3. SLN03 is the configuration code indicating the relationship of the subline item to the baseline item.
4. SLN08 is a code indicating the relationship of the price or amount to the associated segment.

**Comments:**

1. See the Data Element Dictionary for a complete list of IDs.
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 different product/service IDs for each item. For example: Case, Color, Drawing No., U.P.C. No., ISBN No., Model No., or SKU.

# PRF Purchase Order Reference

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

**User Option (Usage):** Used

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	<b>Purchase Order Number</b> <b>Description:</b> Identifying number for Purchase Order assigned by the orderer/purchaser	M	AN	1/22	Must use
PRF02	328	<b>Release Number</b> <b>Description:</b> Number identifying a release against a Purchase Order previously placed by the parties involved in the transaction	O	AN	1/30	Used
PRF03	327	<b>Change Order Sequence Number</b> <b>Description:</b> Number assigned by the orderer identifying a specific change or revision to a previously transmitted transaction set	O	AN	1/8	Used
PRF04	373	<b>Date</b> <b>Description:</b> Date expressed as CCYYMMDD	O	DT	8/8	Used
PRF05	350	<b>Assigned Identification</b> <b>Description:</b> Alphanumeric characters assigned for differentiation within a transaction set	O	AN	1/20	Used
PRF06	367	<b>Contract Number</b> <b>Description:</b> Contract number	O	AN	1/30	Used
PRF07	92	<b>Purchase Order Type Code</b> <b>Description:</b> Code specifying the type of Purchase Order <b>All valid standard codes are used.</b>	O	ID	2/2	Used

## Semantics:

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

# PO4 Item Physical Details

Pos: 060	Max: 1
Detail - Optional	
Loop: HL	Elements: 18

User Option (Usage): Used

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	<b>Pack</b> <b>Description:</b> The number of inner containers, or number of eaches if there are no inner containers, per outer container	O	NO	1/6	Used
PO402	357	<b>Size</b> <b>Description:</b> Size of supplier units in pack	X	R	1/8	Used
PO403	355	<b>Unit or Basis for Measurement Code</b> <b>Description:</b> Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken <b>All valid standard codes are used.</b>	X	ID	2/2	Used
PO404	103	<b>Packaging Code</b> <b>Description:</b> Code identifying the type of packaging; Part 1: Packaging Form, Part 2: Packaging Material; if the Data Element is used, then Part 1 is always required <b>All valid standard codes are used.</b>	X	AN	3/5	Used
PO405	187	<b>Weight Qualifier</b> <b>Description:</b> Code defining the type of weight <b>All valid standard codes are used.</b>	O	ID	1/2	Used
PO406	384	<b>Gross Weight per Pack</b> <b>Description:</b> Numeric value of gross weight per pack	X	R	1/9	Used
PO407	355	<b>Unit or Basis for Measurement Code</b> <b>Description:</b> Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken <b>All valid standard codes are used.</b>	X	ID	2/2	Used
PO408	385	<b>Gross Volume per Pack</b> <b>Description:</b> Numeric value of gross volume per pack	X	R	1/9	Used
PO409	355	<b>Unit or Basis for Measurement Code</b> <b>Description:</b> Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken <b>All valid standard codes are used.</b>	X	ID	2/2	Used
PO410	82	<b>Length</b> <b>Description:</b> Largest horizontal dimension of an object measured when the object is in the upright position	X	R	1/8	Used
PO411	189	<b>Width</b> <b>Description:</b> Shorter measurement of the two horizontal dimensions measured with the	X	R	1/8	Used

PO412	65	object in the upright position <b>Height</b> <b>Description:</b> Vertical dimension of an object measured when the object is in the upright position	X	R	1/8	Used
PO413	355	<b>Unit or Basis for Measurement Code</b> <b>Description:</b> Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken <b>All valid standard codes are used.</b>	X	ID	2/2	Used
PO414	810	<b>Inner Pack</b> <b>Description:</b> The number of eaches per inner container	O	N0	1/6	Used
PO415	752	<b>Surface/Layer/Position Code</b> <b>Description:</b> Code indicating the product surface, layer or position that is being described <b>All valid standard codes are used.</b>	O	ID	2/2	Used
PO416	350	<b>Assigned Identification</b> <b>Description:</b> Alphanumeric characters assigned for differentiation within a transaction set	X	AN	1/20	Used
PO417	350	<b>Assigned Identification</b> <b>Description:</b> Alphanumeric characters assigned for differentiation within a transaction set	O	AN	1/20	Used
PO418	1470	<b>Number</b> <b>Description:</b> A generic number	O	N0	1/9	Used

### Syntax Rules:

1. P0203 - If either PO402 or PO403 is present, then the other is required.
2. C0506 - If PO405 is present, then PO406 is required.
3. P0607 - If either PO406 or PO407 is present, then the other 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.
9. C1716 - If PO417 is present, then PO416 is required.
10. C1804 - If PO418 is present, then PO404 is required.

### Semantics:

1. PO415 is used to indicate the relative layer of this package or range of packages within the layers of packaging. Relative Position 1 (value R1) is the innermost package.
2. PO416 is the package identifier or the beginning package identifier in a range of identifiers.
3. PO417 is the ending package identifier in a range of identifiers.
4. PO418 is the number of packages in this layer.

### Comments:

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

# PID Product/Item Description

Pos: 070	Max: 200
Detail - Optional	
Loop: HL	Elements: 9

**User Option (Usage):** Used

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	<b>Item Description Type</b> <b>Description:</b> Code indicating the format of a description <b>All valid standard codes are used.</b>	M	ID	1/1	Must use
PID02	750	<b>Product/Process Characteristic Code</b> <b>Description:</b> Code identifying the general class of a product or process characteristic <b>All valid standard codes are used.</b>	O	ID	2/3	Used
PID03	559	<b>Agency Qualifier Code</b> <b>Description:</b> Code identifying the agency assigning the code values <b>All valid standard codes are used.</b>	X	ID	2/2	Used
PID04	751	<b>Product Description Code</b> <b>Description:</b> A code from an industry code list which provides specific data about a product characteristic	X	AN	1/12	Used
PID05	352	<b>Description</b> <b>Description:</b> A free-form description to clarify the related data elements and their content	X	AN	1/80	Used
PID06	752	<b>Surface/Layer/Position Code</b> <b>Description:</b> Code indicating the product surface, layer or position that is being described <b>All valid standard codes are used.</b>	O	ID	2/2	Used
PID07	822	<b>Source Subqualifier</b> <b>Description:</b> A reference that indicates the table or text maintained by the Source Qualifier	O	AN	1/15	Used
PID08	1073	<b>Yes/No Condition or Response Code</b> <b>Description:</b> Code indicating a Yes or No condition or response <b>All valid standard codes are used.</b>	O	ID	1/1	Used
PID09	819	<b>Language Code</b> <b>Description:</b> Code designating the language used in text, from a standard code list maintained by the International Standards Organization (ISO 639)	O	ID	2/3	Used

## Syntax Rules:

1. C0403 - If PID04 is present, then PID03 is required.
2. R0405 - At least one of PID04 or PID05 is required.
3. C0703 - If PID07 is present, then PID03 is required.

4. C0804 - If PID08 is present, then PID04 is required.
5. C0905 - If PID09 is present, then PID05 is required.

**Semantics:**

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

**Comments:**

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

# MEA Measurements

Pos: 080	Max: 40
Detail - Optional	
Loop: HL	Elements: 10

**User Option (Usage):** Used

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

## 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	<b>Measurement Reference ID Code</b> <b>Description:</b> Code identifying the broad category to which a measurement applies <b>All valid standard codes are used.</b>	O	ID	2/2	Used
MEA02	738	<b>Measurement Qualifier</b> <b>Description:</b> Code identifying a specific product or process characteristic to which a measurement applies <b>All valid standard codes are used.</b>	O	ID	1/3	Used
MEA03	739	<b>Measurement Value</b> <b>Description:</b> The value of the measurement	X	R	1/20	Used
MEA04	C001	<b>Composite Unit of Measure</b> <b>Description:</b> To identify a composite unit of measure(See Figures Appendix for examples of use)	X	Comp		Used
	355	<b>Unit or Basis for Measurement Code</b> <b>Description:</b> Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken <b>All valid standard codes are used.</b>	M	ID	2/2	Must use
	1018	<b>Exponent</b> <b>Description:</b> Power to which a unit is raised	O	R	1/15	Used
	649	<b>Multiplier</b> <b>Description:</b> Value to be used as a multiplier to obtain a new value	O	R	1/10	Used
	355	<b>Unit or Basis for Measurement Code</b> <b>Description:</b> Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken <b>All valid standard codes are used.</b>	O	ID	2/2	Used
	1018	<b>Exponent</b> <b>Description:</b> Power to which a unit is raised	O	R	1/15	Used
	649	<b>Multiplier</b> <b>Description:</b> Value to be used as a multiplier to obtain a new value	O	R	1/10	Used
	355	<b>Unit or Basis for Measurement Code</b> <b>Description:</b> Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken <b>All valid standard codes are used.</b>	O	ID	2/2	Used
	1018	<b>Exponent</b> <b>Description:</b> Power to which a unit is raised	O	R	1/15	Used

	649	<b>Multiplier</b> <b>Description:</b> Value to be used as a multiplier to obtain a new value	O	R	1/10	Used
	355	<b>Unit or Basis for Measurement Code</b> <b>Description:</b> Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken <b>All valid standard codes are used.</b>	O	ID	2/2	Used
	1018	<b>Exponent</b> <b>Description:</b> Power to which a unit is raised	O	R	1/15	Used
	649	<b>Multiplier</b> <b>Description:</b> Value to be used as a multiplier to obtain a new value	O	R	1/10	Used
	355	<b>Unit or Basis for Measurement Code</b> <b>Description:</b> Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken <b>All valid standard codes are used.</b>	O	ID	2/2	Used
	1018	<b>Exponent</b> <b>Description:</b> Power to which a unit is raised	O	R	1/15	Used
	649	<b>Multiplier</b> <b>Description:</b> Value to be used as a multiplier to obtain a new value	O	R	1/10	Used
MEA05	740	<b>Range Minimum</b> <b>Description:</b> The value specifying the minimum of the measurement range	X	R	1/20	Used
MEA06	741	<b>Range Maximum</b> <b>Description:</b> The value specifying the maximum of the measurement range	X	R	1/20	Used
MEA07	935	<b>Measurement Significance Code</b> <b>Description:</b> Code used to benchmark, qualify or further define a measurement value <b>All valid standard codes are used.</b>	O	ID	2/2	Used
MEA08	936	<b>Measurement Attribute Code</b> <b>Description:</b> Code used to express an attribute response when a numeric measurement value cannot be determined <b>All valid standard codes are used.</b>	X	ID	2/2	Used
MEA09	752	<b>Surface/Layer/Position Code</b> <b>Description:</b> Code indicating the product surface, layer or position that is being described <b>All valid standard codes are used.</b>	O	ID	2/2	Used
MEA10	1373	<b>Measurement Method or Device</b> <b>Description:</b> The method or device used to record the measurement <b>All valid standard codes are used.</b>	O	ID	2/4	Used

### Syntax Rules:

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

### Semantics:

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

**Comments:**

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

# PWK Paperwork

Pos: 090	Max: 25
Detail - Optional	
Loop: HL	Elements: 9

**User Option (Usage):** Used

To identify the type or transmission or both 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	<b>Report Type Code</b> <b>Description:</b> Code indicating the title or contents of a document, report or supporting item <b>All valid standard codes are used.</b>	M	ID	2/2	Must use
PWK02	756	<b>Report Transmission Code</b> <b>Description:</b> Code defining timing, transmission method or format by which reports are to be sent <b>All valid standard codes are used.</b>	O	ID	1/2	Used
PWK03	757	<b>Report Copies Needed</b> <b>Description:</b> The number of copies of a report that should be sent to the addressee	O	N0	1/2	Used
PWK04	98	<b>Entity Identifier Code</b> <b>Description:</b> Code identifying an organizational entity, a physical location, property or an individual <b>All valid standard codes are used.</b>	O	ID	2/3	Used
PWK05	66	<b>Identification Code Qualifier</b> <b>Description:</b> Code designating the system/method of code structure used for Identification Code (67) <b>All valid standard codes are used.</b>	X	ID	1/2	Used
PWK06	67	<b>Identification Code</b> <b>Description:</b> Code identifying a party or other code	X	AN	2/80	Used
PWK07	352	<b>Description</b> <b>Description:</b> A free-form description to clarify the related data elements and their content	O	AN	1/80	Used
PWK08	C002	<b>Actions Indicated</b> <b>Description:</b> Actions to be performed on the piece of paperwork identified	O	Comp		Used
	704	<b>Paperwork/Report Action Code</b> <b>Description:</b> 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 <b>All valid standard codes are used.</b>	M	ID	1/2	Must use
	704	<b>Paperwork/Report Action Code</b> <b>Description:</b> 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 <b>All valid standard codes are used.</b>	O	ID	1/2	Used

	704	<b>Paperwork/Report Action Code</b> <b>Description:</b> 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 <b>All valid standard codes are used.</b>	O	ID	1/2	Used
	704	<b>Paperwork/Report Action Code</b> <b>Description:</b> 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 <b>All valid standard codes are used.</b>	O	ID	1/2	Used
	704	<b>Paperwork/Report Action Code</b> <b>Description:</b> 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 <b>All valid standard codes are used.</b>	O	ID	1/2	Used
PWK09	1525	<b>Request Category Code</b> <b>Description:</b> Code indicating a type of request <b>All valid standard codes are used.</b>	O	ID	1/2	Used

### 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

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

## Syntax Rules:

1. R040506 - At least one of PKG04, PKG05 or PKG06 is required.
2. C0403 - If PKG04 is present, then PKG03 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 the MEA (Measurements) Segment to define dimensions, tolerances, weights, counts, physical restrictions, etc.
2. If PKG01 equals "F", then PKG05 is used. If PKG01 equals "S", then PKG04 is used. If PKG01 equals "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: 10

User Option (Usage): Used

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	<b>Packaging Code</b> <b>Description:</b> Code identifying the type of packaging; Part 1: Packaging Form, Part 2: Packaging Material; if the Data Element is used, then Part 1 is always required <b>All valid standard codes are used.</b>	O	AN	3/5	Used
TD102	80	<b>Lading Quantity</b> <b>Description:</b> Number of units (pieces) of the lading commodity	X	NO	1/7	Used
TD103	23	<b>Commodity Code Qualifier</b> <b>Description:</b> Code identifying the commodity coding system used for Commodity Code <b>All valid standard codes are used.</b>	O	ID	1/1	Used
TD104	22	<b>Commodity Code</b> <b>Description:</b> Code describing a commodity or group of commodities	X	AN	1/30	Used
TD105	79	<b>Lading Description</b> <b>Description:</b> Description of an item as required for rating and billing purposes	O	AN	1/50	Used
TD106	187	<b>Weight Qualifier</b> <b>Description:</b> Code defining the type of weight <b>All valid standard codes are used.</b>	O	ID	1/2	Used
TD107	81	<b>Weight</b> <b>Description:</b> Numeric value of weight	X	R	1/10	Used
TD108	355	<b>Unit or Basis for Measurement Code</b> <b>Description:</b> Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken <b>All valid standard codes are used.</b>	X	ID	2/2	Used
TD109	183	<b>Volume</b> <b>Description:</b> Value of volumetric measure	X	R	1/8	Used
TD110	355	<b>Unit or Basis for Measurement Code</b> <b>Description:</b> Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken <b>All valid standard codes are used.</b>	X	ID	2/2	Used

## Syntax Rules:

1. C0102 - If TD101 is present, then TD102 is required.
2. C0304 - If TD103 is present, then TD104 is required.

3. C0607 - If TD106 is present, then TD107 is required.
4. P0708 - If either TD107 or TD108 is present, then the other is required.
5. P0910 - If either TD109 or TD110 is present, then the other is required.

# TD5 Carrier Details (Routing Sequence/Transit Time)

Pos: 120	Max: 12
Detail - Optional	
Loop: HL	Elements: 15

User Option (Usage): Used

To specify the carrier and sequence of routing and 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	<b>Routing Sequence Code</b> <b>Description:</b> Code describing the relationship of a carrier to a specific shipment movement <b>All valid standard codes are used.</b>	O	ID	1/2	Used
TD502	66	<b>Identification Code Qualifier</b> <b>Description:</b> Code designating the system/method of code structure used for Identification Code (67) <b>All valid standard codes are used.</b>	X	ID	1/2	Used
TD503	67	<b>Identification Code</b> <b>Description:</b> Code identifying a party or other code	X	AN	2/80	Used
TD504	91	<b>Transportation Method/Type Code</b> <b>Description:</b> Code specifying the method or type of transportation for the shipment <b>All valid standard codes are used.</b>	X	ID	1/2	Used
TD505	387	<b>Routing</b> <b>Description:</b> Free-form description of the routing or requested routing for shipment, or the originating carrier's identity	X	AN	1/35	Used
TD506	368	<b>Shipment/Order Status Code</b> <b>Description:</b> 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 <b>All valid standard codes are used.</b>	X	ID	2/2	Used
TD507	309	<b>Location Qualifier</b> <b>Description:</b> Code identifying type of location <b>All valid standard codes are used.</b>	O	ID	1/2	Used
TD508	310	<b>Location Identifier</b> <b>Description:</b> Code which identifies a specific location	X	AN	1/30	Used
TD509	731	<b>Transit Direction Code</b> <b>Description:</b> The point of origin and point of direction <b>All valid standard codes are used.</b>	O	ID	2/2	Used
TD510	732	<b>Transit Time Direction Qualifier</b> <b>Description:</b> Code specifying the value of time used to measure the transit time <b>All valid standard codes are used.</b>	O	ID	2/2	Used
TD511	733	<b>Transit Time</b>	X	R	1/4	Used

		<b>Description:</b> The numeric amount of transit time				
TD512	284	<b>Service Level Code</b> <b>Description:</b> Code indicating the level of transportation service or the billing service offered by the transportation carrier <b>All valid standard codes are used.</b>	X	ID	2/2	Used
TD513	284	<b>Service Level Code</b> <b>Description:</b> Code indicating the level of transportation service or the billing service offered by the transportation carrier <b>All valid standard codes are used.</b>	X	ID	2/2	Used
TD514	284	<b>Service Level Code</b> <b>Description:</b> Code indicating the level of transportation service or the billing service offered by the transportation carrier <b>All valid standard codes are used.</b>	O	ID	2/2	Used
TD515	26	<b>Country Code</b> <b>Description:</b> Code identifying the country	O	ID	2/3	Used

### Syntax Rules:

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

### Semantics:

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

### Comments:

1. When specifying a routing sequence to be used for the shipment movement in lieu of specifying each carrier within the movement, use TD502 to identify the party responsible for defining the routing sequence, and use TD503 to identify the actual routing sequence, specified by the party identified in TD502.

# TD3 Carrier Details (Equipment)

Pos: 130	Max: 12
Detail - Optional	
Loop: HL	Elements: 10

**User Option (Usage):** Used

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	<b>Equipment Description Code</b> <b>Description:</b> Code identifying type of equipment used for shipment <b>All valid standard codes are used.</b>	X	ID	2/2	Used
TD302	206	<b>Equipment Initial</b> <b>Description:</b> Prefix or alphabetic part of an equipment unit's identifying number	O	AN	1/4	Used
TD303	207	<b>Equipment Number</b> <b>Description:</b> Sequencing or serial part of an equipment unit's identifying number (pure numeric form for equipment number is preferred)	X	AN	1/10	Used
TD304	187	<b>Weight Qualifier</b> <b>Description:</b> Code defining the type of weight <b>All valid standard codes are used.</b>	O	ID	1/2	Used
TD305	81	<b>Weight</b> <b>Description:</b> Numeric value of weight	X	R	1/10	Used
TD306	355	<b>Unit or Basis for Measurement Code</b> <b>Description:</b> Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken <b>All valid standard codes are used.</b>	X	ID	2/2	Used
TD307	102	<b>Ownership Code</b> <b>Description:</b> Code indicating the relationship of equipment to carrier or ownership of equipment <b>All valid standard codes are used.</b>	O	ID	1/1	Used
TD308	407	<b>Seal Status Code</b> <b>Description:</b> Code indicating condition of door seal upon arrival <b>All valid standard codes are used.</b>	O	ID	2/2	Used
TD309	225	<b>Seal Number</b> <b>Description:</b> Unique number on seal used to close a shipment	O	AN	2/15	Used
TD310	24	<b>Equipment Type</b> <b>Description:</b> Code identifying equipment type	X	ID	4/4	Used

## Syntax Rules:

1. E0110 - Only one of TD301 or TD310 may be present.
2. C0203 - If TD302 is present, then TD303 is required.

3. C0405 - If TD304 is present, then TD305 is required.
4. P0506 - If either TD305 or TD306 is present, then the other is required.

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

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

User Option (Usage): Used

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	<b>Special Handling Code</b> <b>Description:</b> Code specifying special transportation handling instructions <b>All valid standard codes are used.</b>	X	ID	2/3	Used
TD402	208	<b>Hazardous Material Code Qualifier</b> <b>Description:</b> Code which qualifies the Hazardous Material Class Code (209) <b>All valid standard codes are used.</b>	X	ID	1/1	Used
TD403	209	<b>Hazardous Material Class Code</b> <b>Description:</b> Code specifying the kind of hazard for a material	X	AN	1/4	Used
TD404	352	<b>Description</b> <b>Description:</b> A free-form description to clarify the related data elements and their content	X	AN	1/80	Used
TD405	1073	<b>Yes/No Condition or Response Code</b> <b>Description:</b> Code indicating a Yes or No condition or response <b>All valid standard codes are used.</b>	O	ID	1/1	Used

## Syntax Rules:

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

## Semantics:

1. TD405 identifies if a Material Safety Data Sheet (MSDS) exists for this product. A "Y" indicates an MSDS exists for this product; an "N" indicates an MSDS does not exist for this product.

# TSD Trailer Shipment Details

Pos: 145	Max: 1
Detail - Optional	
Loop: HL	Elements: 2

**User Option (Usage):** Used

To specify details of shipments on a trailer

## 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>
TSD01	350	<b>Assigned Identification</b> <b>Description:</b> Alphanumeric characters assigned for differentiation within a transaction set	O	AN	1/20	Used
TSD02	219	<b>Position</b> <b>Description:</b> Relative position of shipment in car, trailer, or container (mutually defined)	O	AN	1/3	Used

## Semantics:

1. TSD01 indicates the loading sequence and relative shipment position on the trailer.

# REF Reference Identification

Pos: 150	Max: >1
Detail - Optional	
Loop: HL	Elements: 4

**User Option (Usage):** Used

To specify identifying 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>
REF01	128	<b>Reference Identification Qualifier</b> <b>Description:</b> Code qualifying the Reference Identification <b>All valid standard codes are used.</b>	M	ID	2/3	Must use
REF02	127	<b>Reference Identification</b> <b>Description:</b> Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	X	AN	1/30	Used
REF03	352	<b>Description</b> <b>Description:</b> A free-form description to clarify the related data elements and their content	X	AN	1/80	Used
REF04	C040	<b>Reference Identifier</b> <b>Description:</b> To identify one or more reference numbers or identification numbers as specified by the Reference Qualifier	O	Comp		Used
	128	<b>Reference Identification Qualifier</b> <b>Description:</b> Code qualifying the Reference Identification <b>All valid standard codes are used.</b>	M	ID	2/3	Must use
	127	<b>Reference Identification</b> <b>Description:</b> Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	M	AN	1/30	Must use
	128	<b>Reference Identification Qualifier</b> <b>Description:</b> Code qualifying the Reference Identification <b>All valid standard codes are used.</b>	X	ID	2/3	Used
	127	<b>Reference Identification</b> <b>Description:</b> Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	X	AN	1/30	Used
	128	<b>Reference Identification Qualifier</b> <b>Description:</b> Code qualifying the Reference Identification <b>All valid standard codes are used.</b>	X	ID	2/3	Used
	127	<b>Reference Identification</b> <b>Description:</b> Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	X	AN	1/30	Used

**Syntax Rules:**

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

**Semantics:**

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

# PER Administrative Communications Contact

Pos: 151	Max: 3
Detail - Optional	
Loop: HL	Elements: 9

User Option (Usage): Used

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	<b>Contact Function Code</b> <b>Description:</b> Code identifying the major duty or responsibility of the person or group named <b>All valid standard codes are used.</b>	M	ID	2/2	Must use
PER02	93	<b>Name</b> <b>Description:</b> Free-form name	O	AN	1/60	Used
PER03	365	<b>Communication Number Qualifier</b> <b>Description:</b> Code identifying the type of communication number <b>All valid standard codes are used.</b>	X	ID	2/2	Used
PER04	364	<b>Communication Number</b> <b>Description:</b> Complete communications number including country or area code when applicable	X	AN	1/80	Used
PER05	365	<b>Communication Number Qualifier</b> <b>Description:</b> Code identifying the type of communication number <b>All valid standard codes are used.</b>	X	ID	2/2	Used
PER06	364	<b>Communication Number</b> <b>Description:</b> Complete communications number including country or area code when applicable	X	AN	1/80	Used
PER07	365	<b>Communication Number Qualifier</b> <b>Description:</b> Code identifying the type of communication number <b>All valid standard codes are used.</b>	X	ID	2/2	Used
PER08	364	<b>Communication Number</b> <b>Description:</b> Complete communications number including country or area code when applicable	X	AN	1/80	Used
PER09	443	<b>Contact Inquiry Reference</b> <b>Description:</b> Additional reference number or description to clarify a contact number	O	AN	1/20	Used

## 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.
3. P0708 - If either PER07 or PER08 is present, then the other is required.

# Loop LH1

Pos: 152	Repeat: 100
Optional	
Loop: LH1	Elements: N/A

To specify the hazardous commodity identification reference number and quantity

## 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>
152	LH1	Hazardous Identification Information	O	1		Used
153	LH2	Hazardous Classification Information	O	4		Used
154	LH3	Hazardous Material Shipping Name	O	12		Used
155	LFH	Freeform Hazardous Material Information	O	20		Used
156	LEP	EPA Required Data	O	>1		Used
157	LH4	Canadian Dangerous Requirements	O	1		Used
158	LHT	Transborder Hazardous Requirements	O	3		Used
159	LHR	Hazardous Material Identifying Reference Numbers	O	10		Used
160	PER	Administrative Communications Contact	O	5		Used
161	LHE	Empty Equipment Hazardous Material Information	O	1		Used

# LH1 Hazardous Identification Information

Pos: 152	Max: 1
Detail - Optional	
Loop: LH1	Elements: 11

User Option (Usage): Used

To specify the hazardous commodity identification reference number 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>
LH101	355	<b>Unit or Basis for Measurement Code</b> <b>Description:</b> Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken <b>All valid standard codes are used.</b>	M	ID	2/2	Must use
LH102	80	<b>Lading Quantity</b> <b>Description:</b> Number of units (pieces) of the lading commodity	M	NO	1/7	Must use
LH103	277	<b>UN/NA Identification Code</b> <b>Description:</b> Code identifying the hazardous material identification number as required by Title 49 of the code of Federal Regulations; UN/NA stands for United Nations/North America	O	ID	6/6	Used
LH104	200	<b>Hazardous Materials Page</b> <b>Description:</b> The United Nations page number as required for the international transport of hazardous materials	O	AN	1/6	Used
LH105	22	<b>Commodity Code</b> <b>Description:</b> Code describing a commodity or group of commodities	O	AN	1/30	Used
LH106	355	<b>Unit or Basis for Measurement Code</b> <b>Description:</b> Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken <b>All valid standard codes are used.</b>	O	ID	2/2	Used
LH107	380	<b>Quantity</b> <b>Description:</b> Numeric value of quantity	O	R	1/15	Used
LH108	595	<b>Compartment ID Code</b> <b>Description:</b> Code identifying the compartment in a compartmentalized tank car <b>All valid standard codes are used.</b>	O	ID	1/1	Used
LH109	665	<b>Residue Indicator Code</b> <b>Description:</b> Code indicating that the material being described is that which remains in a packaging (including a tank car) after it has been unloaded <b>All valid standard codes are used.</b>	O	ID	1/1	Used
LH110	254	<b>Packing Group Code</b> <b>Description:</b> Code indicating degree of danger in terms of Roman number I, II or III	O	ID	1/3	Used
LH111	1375	<b>Interim Hazardous Material Regulatory Number</b>	O	AN	1/5	Used

**Description:** Identifies the current regulatory version number used for hazardous materials shipments

**Comments:**

1. LH101 and LH102 are used to convey the number and type of packages for bulk and nonbulk movements.
2. LH106 and LH107 are used to convey the quantity or volume and unit of measure for nonbulk shipments only.
3. In LH109, a value of "R" or "P" requires that the receiver generate the words "residue: last contained" prior to the shipping name in accordance with regulations.

# LH2 Hazardous Classification Information

Pos: 153	Max: 4
Detail - Optional	
Loop: LH1	Elements: 11

User Option (Usage): Used

To specify the hazardous notation and endorsement 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>
LH201	215	<b>Hazardous Classification</b> <b>Description:</b> The hazardous classification corresponding to the shipping name of the hazardous commodity	O	ID	1/30	Used
LH202	983	<b>Hazardous Class Qualifier</b> <b>Description:</b> Code qualifying hazardous class <b>All valid standard codes are used.</b>	O	ID	1/1	Used
LH203	218	<b>Hazardous Placard Notation</b> <b>Description:</b> The placard notation corresponding to the hazard class of the hazardous commodity	O	ID	14/40	Used
LH204	222	<b>Hazardous Endorsement</b> <b>Description:</b> The placard endorsement that is to be shown on the shipping papers for the hazardous commodity	O	ID	4/25	Used
LH205	759	<b>Reportable Quantity Code</b> <b>Description:</b> Code to identify presence of hazardous substance <b>All valid standard codes are used.</b>	O	ID	2/2	Used
LH206	355	<b>Unit or Basis for Measurement Code</b> <b>Description:</b> Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken <b>All valid standard codes are used.</b>	X	ID	2/2	Used
LH207	408	<b>Temperature</b> <b>Description:</b> Temperature	X	R	1/4	Used
LH208	355	<b>Unit or Basis for Measurement Code</b> <b>Description:</b> Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken <b>All valid standard codes are used.</b>	X	ID	2/2	Used
LH209	408	<b>Temperature</b> <b>Description:</b> Temperature	X	R	1/4	Used
LH210	355	<b>Unit or Basis for Measurement Code</b> <b>Description:</b> Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken <b>All valid standard codes are used.</b>	X	ID	2/2	Used
LH211	408	<b>Temperature</b> <b>Description:</b> Temperature	X	R	1/4	Used

**Syntax Rules:**

1. P0607 - If either LH206 or LH207 is present, then the other is required.
2. P0809 - If either LH208 or LH209 is present, then the other is required.
3. P1011 - If either LH210 or LH211 is present, then the other is required.

**Semantics:**

1. LH206 and LH207 indicate the flashpoint temperature.
2. LH208 and LH209 indicate the control temperature.
3. LH210 and LH211 indicate the emergency temperature.

# LH3 Hazardous Material Shipping Name

Pos: 154	Max: 12
Detail - Optional	
Loop: LH1	Elements: 4

User Option (Usage): Used

To specify the hazardous material shipping name and additional descriptive 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>
LH301	224	<b>Hazardous Material Shipping Name</b> <b>Description:</b> The proper shipping name of the hazardous commodity as specified by the Code of Federal Regulations, Title 49	X	AN	1/25	Used
LH302	984	<b>Hazardous Material Shipping Name Qualifier</b> <b>Description:</b> Qualifier indicating the source (regulatory) of the proper shipping name <b>All valid standard codes are used.</b>	X	ID	1/1	Used
LH303	985	<b>N.O.S. Indicator Code</b> <b>Description:</b> Code indicating the type of regulatory requirements that apply to a description; N.O.S. stands for Not Otherwise Specified <b>All valid standard codes are used.</b>	O	ID	3/3	Used
LH304	1073	<b>Yes/No Condition or Response Code</b> <b>Description:</b> Code indicating a Yes or No condition or response <b>All valid standard codes are used.</b>	O	ID	1/1	Used

## Syntax Rules:

1. P0102 - If either LH301 or LH302 is present, then the other is required.

## Semantics:

1. If LH304 is "Y", then this is an Association of American Railroads Operations and Transportation Bulletin 55 commodity. If "N", it is not an Association of American Railroads Operations and Transportation Bulletin 55 commodity.

# LFH Freeform Hazardous Material Information

Pos: 155	Max: 20
Detail - Optional	
Loop: LH1	Elements: 7

**User Option (Usage):** Used

To uniquely identify the variable information required by government regulation covering the transportation of hazardous material shipments

## 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>
LFH01	808	<b>Hazardous Material Shipment Information Qualifier</b> <b>Description:</b> Qualifier indicating the type of information being passed so that a receiver may format a description of hazardous commodity movements that meets regulatory requirements <b>All valid standard codes are used.</b>	M	ID	3/3	Must use
LFH02	809	<b>Hazardous Material Shipment Information</b> <b>Description:</b> Specific information required by law for hazardous material shipments	M	AN	1/25	Must use
LFH03	809	<b>Hazardous Material Shipment Information</b> <b>Description:</b> Specific information required by law for hazardous material shipments	O	AN	1/25	Used
LFH04	1023	<b>Hazard Zone Code</b> <b>Description:</b> Code specifying the Department of Transportation assigned zone designating the Inhalation Toxicity Hazard Zone <b>All valid standard codes are used.</b>	O	ID	1/1	Used
LFH05	355	<b>Unit or Basis for Measurement Code</b> <b>Description:</b> Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken <b>All valid standard codes are used.</b>	X	ID	2/2	Used
LFH06	380	<b>Quantity</b> <b>Description:</b> Numeric value of quantity	X	R	1/15	Used
LFH07	380	<b>Quantity</b> <b>Description:</b> Numeric value of quantity	O	R	1/15	Used

## Syntax Rules:

1. P0506 - If either LFH05 or LFH06 is present, then the other is required.

## Semantics:

1. LFH06 indicates activity of the radioactive material.
2. LFH07 indicates transport index of the radioactive material.

# LEP EPA Required Data

Pos: 156	Max: >1
Detail - Optional	
Loop: LH1	Elements: 4

**User Option (Usage):** Used

To specify the Environmental Protection Agency (EPA) information relating to shipments of hazardous material

## 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>
LEP01	806	<b>EPA Waste Stream Number Code</b> <b>Description:</b> Waste stream number applicable to the movement of hazardous waste as determined by government regulations	O	ID	4/6	Used
LEP02	807	<b>Waste Characteristics Code</b> <b>Description:</b> Waste characteristics as defined by regulatory requirements	O	ID	12/16	Used
LEP03	156	<b>State or Province Code</b> <b>Description:</b> Code (Standard State/Province) as defined by appropriate government agency	X	ID	2/2	Used
LEP04	127	<b>Reference Identification</b> <b>Description:</b> Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	X	AN	1/30	Used

## Syntax Rules:

1. P0304 - If either LEP03 or LEP04 is present, then the other is required.

## Semantics:

1. LEP03 is used to identify the state or province responsible for the hazardous waste number contained in LEP04.
2. LEP04 is the hazardous waste number.

# LH4 Canadian Dangerous Requirements

Pos: 157	Max: 1
Detail - Optional	
Loop: LH1	Elements: 12

**User Option (Usage):** Used

To specify additional Transport Canada requirements covering transportation of dangerous goods in Canada

## 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>
LH401	238	<b>Emergency Response Plan Number</b> <b>Description:</b> The identity number of a specific hazardous emergency response plan that is assigned by the Director General of Canada	O	AN	1/12	Used
LH402	364	<b>Communication Number</b> <b>Description:</b> Complete communications number including country or area code when applicable	O	AN	1/80	Used
LH403	254	<b>Packing Group Code</b> <b>Description:</b> Code indicating degree of danger in terms of Roman number I, II or III	O	ID	1/3	Used
LH404	230	<b>Subsidiary Classification</b> <b>Description:</b> Code indicating the classification of dangerous goods, other than the primary classification, that is associated with a number or a set of numbers	O	ID	1/3	Used
LH405	230	<b>Subsidiary Classification</b> <b>Description:</b> Code indicating the classification of dangerous goods, other than the primary classification, that is associated with a number or a set of numbers	O	ID	1/3	Used
LH406	230	<b>Subsidiary Classification</b> <b>Description:</b> Code indicating the classification of dangerous goods, other than the primary classification, that is associated with a number or a set of numbers	O	ID	1/3	Used
LH407	271	<b>Subsidiary Risk Indicator</b> <b>Description:</b> Code identifying the type of subsidiary risk <b>All valid standard codes are used.</b>	O	ID	1/2	Used
LH408	267	<b>Net Explosive Quantity</b> <b>Description:</b> Net weight of the explosive quantity of the hazardous commodity	X	N0	1/6	Used
LH409	805	<b>Canadian Hazardous Notation</b> <b>Description:</b> Notation required by Canadian regulatory agencies	O	AN	1/25	Used
LH410	986	<b>Special Commodity Indicator Code</b> <b>Description:</b> Code indicating 'Special Commodity' notation on operational waybill as identified by the Transportation of Dangerous Goods Act and Regulation (TDG) <b>All valid standard codes are used.</b>	O	ID	1/1	Used

LH411	364	<b>Communication Number</b> <b>Description:</b> Complete communications number including country or area code when applicable	O	AN	1/80	Used
LH412	355	<b>Unit or Basis for Measurement Code</b> <b>Description:</b> Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken <b>All valid standard codes are used.</b>	X	ID	2/2	Used

**Syntax Rules:**

1. P0812 - If either LH408 or LH412 is present, then the other is required.

**Semantics:**

1. LH411 is an additional telephone number.

**Comments:**

1. LH402 is used for the emergency response plan telephone number.
2. LH404 is for the first subsidiary classification.
3. LH405 is for the second subsidiary classification.
4. LH406 is for the third subsidiary classification.

# LHT Transborder Hazardous Requirements

Pos: 158	Max: 3
Detail - Optional	
Loop: LH1	Elements: 3

**User Option (Usage):** Used

To specify the placard information required by the second government agency when shipment is to cross into another country

## 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>
LHT01	215	<b>Hazardous Classification</b> <b>Description:</b> The hazardous classification corresponding to the shipping name of the hazardous commodity	O	ID	1/30	Used
LHT02	218	<b>Hazardous Placard Notation</b> <b>Description:</b> The placard notation corresponding to the hazard class of the hazardous commodity	O	ID	14/40	Used
LHT03	222	<b>Hazardous Endorsement</b> <b>Description:</b> The placard endorsement that is to be shown on the shipping papers for the hazardous commodity	O	ID	4/25	Used

# LHR Hazardous Material Identifying Reference Numbers

Pos: 159	Max: 10
Detail - Optional	
Loop: LH1	Elements: 3

**User Option (Usage):** Used

To transmit specific hazardous material reference 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>
LHR01	128	<b>Reference Identification Qualifier</b> <b>Description:</b> Code qualifying the Reference Identification <b>All valid standard codes are used.</b>	M	ID	2/3	Must use
LHR02	127	<b>Reference Identification</b> <b>Description:</b> Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	M	AN	1/30	Must use
LHR03	373	<b>Date</b> <b>Description:</b> Date expressed as CCYYMMDD	O	DT	8/8	Used

# PER Administrative Communications Contact

Pos: 160	Max: 5
Detail - Optional	
Loop: LH1	Elements: 9

User Option (Usage): Used

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	<b>Contact Function Code</b> <b>Description:</b> Code identifying the major duty or responsibility of the person or group named <b>All valid standard codes are used.</b>	M	ID	2/2	Must use
PER02	93	<b>Name</b> <b>Description:</b> Free-form name	O	AN	1/60	Used
PER03	365	<b>Communication Number Qualifier</b> <b>Description:</b> Code identifying the type of communication number <b>All valid standard codes are used.</b>	X	ID	2/2	Used
PER04	364	<b>Communication Number</b> <b>Description:</b> Complete communications number including country or area code when applicable	X	AN	1/80	Used
PER05	365	<b>Communication Number Qualifier</b> <b>Description:</b> Code identifying the type of communication number <b>All valid standard codes are used.</b>	X	ID	2/2	Used
PER06	364	<b>Communication Number</b> <b>Description:</b> Complete communications number including country or area code when applicable	X	AN	1/80	Used
PER07	365	<b>Communication Number Qualifier</b> <b>Description:</b> Code identifying the type of communication number <b>All valid standard codes are used.</b>	X	ID	2/2	Used
PER08	364	<b>Communication Number</b> <b>Description:</b> Complete communications number including country or area code when applicable	X	AN	1/80	Used
PER09	443	<b>Contact Inquiry Reference</b> <b>Description:</b> Additional reference number or description to clarify a contact number	O	AN	1/20	Used

## 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.
3. P0708 - If either PER07 or PER08 is present, then the other is required.

# LHE Empty Equipment Hazardous Material Information

Pos: 161	Max: 1
Detail - Optional	
Loop: LH1	Elements: 5

User Option (Usage): Used

To specify the "last contained" hazardous shipping name, placard notation, and reference numbers for empty equipment

## 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>
LHE01	224	<b>Hazardous Material Shipping Name</b> <b>Description:</b> The proper shipping name of the hazardous commodity as specified by the Code of Federal Regulations, Title 49	M	AN	1/25	Must use
LHE02	218	<b>Hazardous Placard Notation</b> <b>Description:</b> The placard notation corresponding to the hazard class of the hazardous commodity	M	ID	14/40	Must use
LHE03	128	<b>Reference Identification Qualifier</b> <b>Description:</b> Code qualifying the Reference Identification <b>All valid standard codes are used.</b>	M	ID	2/3	Must use
LHE04	127	<b>Reference Identification</b> <b>Description:</b> Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	M	AN	1/30	Must use
LHE05	759	<b>Reportable Quantity Code</b> <b>Description:</b> Code to identify presence of hazardous substance <b>All valid standard codes are used.</b>	O	ID	2/2	Used

# Loop CLD

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

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 Identification	O	200		Used
185	DTP	Date or Time or Period	O	1		Used

# CLD Load Detail

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

**User Option (Usage):** Used

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	<b>Number of Loads</b> <b>Description:</b> Number of customer-defined loads shipped by the supplier	M	N0	1/5	Must use
CLD02	382	<b>Number of Units Shipped</b> <b>Description:</b> Numeric value of units shipped in manufacturer's shipping units for a line item or transaction set	M	R	1/10	Must use
CLD03	103	<b>Packaging Code</b> <b>Description:</b> Code identifying the type of packaging; Part 1: Packaging Form, Part 2: Packaging Material; if the Data Element is used, then Part 1 is always required <b>All valid standard codes are used.</b>	O	AN	3/5	Used
CLD04	357	<b>Size</b> <b>Description:</b> Size of supplier units in pack	X	R	1/8	Used
CLD05	355	<b>Unit or Basis for Measurement Code</b> <b>Description:</b> Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken <b>All valid standard codes are used.</b>	O	ID	2/2	Used

## Syntax Rules:

1. C0504 - If CLD05 is present, then CLD04 is required.

## Semantics:

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

## Comments:

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

# REF Reference Identification

Pos: 180	Max: 200
Detail - Optional	
Loop: CLD	Elements: 4

**User Option (Usage):** Used

To specify identifying 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>
REF01	128	<b>Reference Identification Qualifier</b> <b>Description:</b> Code qualifying the Reference Identification <b>All valid standard codes are used.</b>	M	ID	2/3	Must use
REF02	127	<b>Reference Identification</b> <b>Description:</b> Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	X	AN	1/30	Used
REF03	352	<b>Description</b> <b>Description:</b> A free-form description to clarify the related data elements and their content	X	AN	1/80	Used
REF04	C040	<b>Reference Identifier</b> <b>Description:</b> To identify one or more reference numbers or identification numbers as specified by the Reference Qualifier	O	Comp		Used
	128	<b>Reference Identification Qualifier</b> <b>Description:</b> Code qualifying the Reference Identification <b>All valid standard codes are used.</b>	M	ID	2/3	Must use
	127	<b>Reference Identification</b> <b>Description:</b> Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	M	AN	1/30	Must use
	128	<b>Reference Identification Qualifier</b> <b>Description:</b> Code qualifying the Reference Identification <b>All valid standard codes are used.</b>	X	ID	2/3	Used
	127	<b>Reference Identification</b> <b>Description:</b> Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	X	AN	1/30	Used
	128	<b>Reference Identification Qualifier</b> <b>Description:</b> Code qualifying the Reference Identification <b>All valid standard codes are used.</b>	X	ID	2/3	Used
	127	<b>Reference Identification</b> <b>Description:</b> Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	X	AN	1/30	Used

**Syntax Rules:**

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

**Semantics:**

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

# DTP Date or Time or Period

Pos: 185	Max: 1
Detail - Optional	
Loop: CLD	Elements: 3

**User Option (Usage):** Used

To specify any or all of a date, a time, or a time period

## 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>
DTP01	374	<b>Date/Time Qualifier</b> <b>Description:</b> Code specifying type of date or time, or both date and time <b>All valid standard codes are used.</b>	M	ID	3/3	Must use
DTP02	1250	<b>Date Time Period Format Qualifier</b> <b>Description:</b> Code indicating the date format, time format, or date and time format <b>All valid standard codes are used.</b>	M	ID	2/3	Must use
DTP03	1251	<b>Date Time Period</b> <b>Description:</b> Expression of a date, a time, or range of dates, times or dates and times	M	AN	1/35	Must use

## Semantics:

1. DTP02 is the date or time or period format that will appear in DTP03.

# MAN Marks and Numbers

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

**User Option (Usage):** Used

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	<b>Marks and Numbers Qualifier</b> <b>Description:</b> Code specifying the application or source of Marks and Numbers (87) <b>All valid standard codes are used.</b>	M	ID	1/2	Must use
MAN02	87	<b>Marks and Numbers</b> <b>Description:</b> Marks and numbers used to identify a shipment or parts of a shipment	M	AN	1/48	Must use
MAN03	87	<b>Marks and Numbers</b> <b>Description:</b> Marks and numbers used to identify a shipment or parts of a shipment	O	AN	1/48	Used
MAN04	88	<b>Marks and Numbers Qualifier</b> <b>Description:</b> Code specifying the application or source of Marks and Numbers (87) <b>All valid standard codes are used.</b>	X	ID	1/2	Used
MAN05	87	<b>Marks and Numbers</b> <b>Description:</b> Marks and numbers used to identify a shipment or parts of a shipment	X	AN	1/48	Used
MAN06	87	<b>Marks and Numbers</b> <b>Description:</b> Marks and numbers used to identify a shipment or parts of a shipment	O	AN	1/48	Used

## Syntax Rules:

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

## Semantics:

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

## Comments:

1. When MAN01 contains code "UC" (U.P.C. Shipping Container Code) and MAN05/MAN06 contain a range of ID numbers, MAN03 is not used. The reason for this is that the U.P.C. Shipping Container code is the same on every carton that is represented in the range in MAN05/MAN06.
2. MAN03 and/or MAN06 are only used when sending a range(s) of ID numbers.
3. When both MAN02/MAN03 and MAN05/MAN06 are used to send ranges of ID numbers, the integrity of the two ID numbers must be maintained.

# DTM Date/Time Reference

Pos: 200	Max: 10
Detail - Optional	
Loop: HL	Elements: 6

**User Option (Usage):** Used

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	<b>Date/Time Qualifier</b> <b>Description:</b> Code specifying type of date or time, or both date and time <b>All valid standard codes are used.</b>	M	ID	3/3	Must use
DTM02	373	<b>Date</b> <b>Description:</b> Date expressed as CCYYMMDD	X	DT	8/8	Used
DTM03	337	<b>Time</b> <b>Description:</b> 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)	X	TM	4/8	Used
DTM04	623	<b>Time Code</b> <b>Description:</b> 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 <b>All valid standard codes are used.</b>	O	ID	2/2	Used
DTM05	1250	<b>Date Time Period Format Qualifier</b> <b>Description:</b> Code indicating the date format, time format, or date and time format <b>All valid standard codes are used.</b>	X	ID	2/3	Used
DTM06	1251	<b>Date Time Period</b> <b>Description:</b> Expression of a date, a time, or range of dates, times or dates and times	X	AN	1/35	Used

## Syntax Rules:

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

# FOB F.O.B. Related Instructions

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

**User Option (Usage):** Used

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	<b>Shipment Method of Payment</b> <b>Description:</b> Code identifying payment terms for transportation charges <b>All valid standard codes are used.</b>	M	ID	2/2	Must use
FOB02	309	<b>Location Qualifier</b> <b>Description:</b> Code identifying type of location <b>All valid standard codes are used.</b>	X	ID	1/2	Used
FOB03	352	<b>Description</b> <b>Description:</b> A free-form description to clarify the related data elements and their content	O	AN	1/80	Used
FOB04	334	<b>Transportation Terms Qualifier Code</b> <b>Description:</b> Code identifying the source of the transportation terms <b>All valid standard codes are used.</b>	O	ID	2/2	Used
FOB05	335	<b>Transportation Terms Code</b> <b>Description:</b> Code identifying the trade terms which apply to the shipment transportation responsibility <b>All valid standard codes are used.</b>	X	ID	3/3	Used
FOB06	309	<b>Location Qualifier</b> <b>Description:</b> Code identifying type of location <b>All valid standard codes are used.</b>	X	ID	1/2	Used
FOB07	352	<b>Description</b> <b>Description:</b> A free-form description to clarify the related data elements and their content	O	AN	1/80	Used
FOB08	54	<b>Risk of Loss Code</b> <b>Description:</b> Code specifying where responsibility for risk of loss passes <b>All valid standard codes are used.</b>	O	ID	2/2	Used
FOB09	352	<b>Description</b> <b>Description:</b> A free-form description to clarify the related data elements and their content	X	AN	1/80	Used

## 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: 16

User Option (Usage): Used

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	<b>Pallet Type Code</b> <b>Description:</b> Code indicating the type of pallet <b>All valid standard codes are used.</b>	O	ID	1/2	Used
PAL02	884	<b>Pallet Tiers</b> <b>Description:</b> The number of layers per pallet	O	N0	1/3	Used
PAL03	885	<b>Pallet Blocks</b> <b>Description:</b> The number of pieces (cartons) per layer on the pallet	O	N0	1/3	Used
PAL04	356	<b>Pack</b> <b>Description:</b> The number of inner containers, or number of eaches if there are no inner containers, per outer container	O	N0	1/6	Used
PAL05	395	<b>Unit Weight</b> <b>Description:</b> Numeric value of weight per unit	X	R	1/8	Used
PAL06	355	<b>Unit or Basis for Measurement Code</b> <b>Description:</b> Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken <b>All valid standard codes are used.</b>	X	ID	2/2	Used
PAL07	82	<b>Length</b> <b>Description:</b> Largest horizontal dimension of an object measured when the object is in the upright position	X	R	1/8	Used
PAL08	189	<b>Width</b> <b>Description:</b> Shorter measurement of the two horizontal dimensions measured with the object in the upright position	X	R	1/8	Used
PAL09	65	<b>Height</b> <b>Description:</b> Vertical dimension of an object measured when the object is in the upright position	X	R	1/8	Used
PAL10	355	<b>Unit or Basis for Measurement Code</b> <b>Description:</b> Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken <b>All valid standard codes are used.</b>	X	ID	2/2	Used
PAL11	384	<b>Gross Weight per Pack</b> <b>Description:</b> Numeric value of gross weight per pack	X	R	1/9	Used
PAL12	355	<b>Unit or Basis for Measurement Code</b> <b>Description:</b> Code specifying the units in	X	ID	2/2	Used

		which a value is being expressed, or manner in which a measurement has been taken <b>All valid standard codes are used.</b>				
PAL13	385	<b>Gross Volume per Pack</b> <b>Description:</b> Numeric value of gross volume per pack	X	R	1/9	Used
PAL14	355	<b>Unit or Basis for Measurement Code</b> <b>Description:</b> Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken <b>All valid standard codes are used.</b>	X	ID	2/2	Used
PAL15	399	<b>Pallet Exchange Code</b> <b>Description:</b> Code specifying pallet exchange instructions <b>All valid standard codes are used.</b>	O	ID	1/1	Used
PAL16	810	<b>Inner Pack</b> <b>Description:</b> The number of eaches per inner container	O	N0	1/6	Used

### 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. L10070809 - If PAL10 is present, then at least one of PAL07, PAL08 or PAL09 is required.
6. P1112 - If either PAL11 or PAL12 is present, then the other is required.
7. 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 N1

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

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 Identification	O	12		Used
270	PER	Administrative Communications Contact	O	3		Used
280	FOB	F.O.B. Related Instructions	O	1		Used

**N1****Name**

<b>Pos: 220</b>	<b>Max: 1</b>
<b>Detail - Optional</b>	
<b>Loop: N1</b>	<b>Elements: 6</b>

**User Option (Usage):** Used

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	<b>Entity Identifier Code</b> <b>Description:</b> Code identifying an organizational entity, a physical location, property or an individual <b>All valid standard codes are used.</b>	M	ID	2/3	Must use
N102	93	<b>Name</b> <b>Description:</b> Free-form name	X	AN	1/60	Used
N103	66	<b>Identification Code Qualifier</b> <b>Description:</b> Code designating the system/method of code structure used for Identification Code (67) <b>All valid standard codes are used.</b>	X	ID	1/2	Used
N104	67	<b>Identification Code</b> <b>Description:</b> Code identifying a party or other code	X	AN	2/80	Used
N105	706	<b>Entity Relationship Code</b> <b>Description:</b> Code describing entity relationship <b>All valid standard codes are used.</b>	O	ID	2/2	Used
N106	98	<b>Entity Identifier Code</b> <b>Description:</b> Code identifying an organizational entity, a physical location, property or an individual <b>All valid standard codes are used.</b>	O	ID	2/3	Used

**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

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	<b>Name</b> Description: Free-form name	M	AN	1/60	Must use
N202	93	<b>Name</b> Description: Free-form name	O	AN	1/60	Used

# N3 Address Information

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

**User Option (Usage):** Used

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	<b>Address Information</b> <b>Description:</b> Address information	M	AN	1/55	Must use
N302	166	<b>Address Information</b> <b>Description:</b> Address information	O	AN	1/55	Used

# N4 Geographic Location

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

**User Option (Usage):** Used

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	<b>City Name</b> <b>Description:</b> Free-form text for city name	O	AN	2/30	Used
N402	156	<b>State or Province Code</b> <b>Description:</b> Code (Standard State/Province) as defined by appropriate government agency	O	ID	2/2	Used
N403	116	<b>Postal Code</b> <b>Description:</b> Code defining international postal zone code excluding punctuation and blanks (zip code for United States)	O	ID	3/15	Used
N404	26	<b>Country Code</b> <b>Description:</b> Code identifying the country	O	ID	2/3	Used
N405	309	<b>Location Qualifier</b> <b>Description:</b> Code identifying type of location <b>All valid standard codes are used.</b>	X	ID	1/2	Used
N406	310	<b>Location Identifier</b> <b>Description:</b> Code which identifies a specific location	O	AN	1/30	Used

## 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 U.S. or Canada.

# REF Reference Identification

Pos: 260	Max: 12
Detail - Optional	
Loop: N1	Elements: 4

**User Option (Usage):** Used

To specify identifying 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>
REF01	128	<b>Reference Identification Qualifier</b> <b>Description:</b> Code qualifying the Reference Identification <b>All valid standard codes are used.</b>	M	ID	2/3	Must use
REF02	127	<b>Reference Identification</b> <b>Description:</b> Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	X	AN	1/30	Used
REF03	352	<b>Description</b> <b>Description:</b> A free-form description to clarify the related data elements and their content	X	AN	1/80	Used
REF04	C040	<b>Reference Identifier</b> <b>Description:</b> To identify one or more reference numbers or identification numbers as specified by the Reference Qualifier	O	Comp		Used
	128	<b>Reference Identification Qualifier</b> <b>Description:</b> Code qualifying the Reference Identification <b>All valid standard codes are used.</b>	M	ID	2/3	Must use
	127	<b>Reference Identification</b> <b>Description:</b> Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	M	AN	1/30	Must use
	128	<b>Reference Identification Qualifier</b> <b>Description:</b> Code qualifying the Reference Identification <b>All valid standard codes are used.</b>	X	ID	2/3	Used
	127	<b>Reference Identification</b> <b>Description:</b> Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	X	AN	1/30	Used
	128	<b>Reference Identification Qualifier</b> <b>Description:</b> Code qualifying the Reference Identification <b>All valid standard codes are used.</b>	X	ID	2/3	Used
	127	<b>Reference Identification</b> <b>Description:</b> Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	X	AN	1/30	Used

**Syntax Rules:**

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

**Semantics:**

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

# PER Administrative Communications Contact

Pos: 270	Max: 3
Detail - Optional	
Loop: N1	Elements: 9

User Option (Usage): Used

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	<b>Contact Function Code</b> <b>Description:</b> Code identifying the major duty or responsibility of the person or group named <b>All valid standard codes are used.</b>	M	ID	2/2	Must use
PER02	93	<b>Name</b> <b>Description:</b> Free-form name	O	AN	1/60	Used
PER03	365	<b>Communication Number Qualifier</b> <b>Description:</b> Code identifying the type of communication number <b>All valid standard codes are used.</b>	X	ID	2/2	Used
PER04	364	<b>Communication Number</b> <b>Description:</b> Complete communications number including country or area code when applicable	X	AN	1/80	Used
PER05	365	<b>Communication Number Qualifier</b> <b>Description:</b> Code identifying the type of communication number <b>All valid standard codes are used.</b>	X	ID	2/2	Used
PER06	364	<b>Communication Number</b> <b>Description:</b> Complete communications number including country or area code when applicable	X	AN	1/80	Used
PER07	365	<b>Communication Number Qualifier</b> <b>Description:</b> Code identifying the type of communication number <b>All valid standard codes are used.</b>	X	ID	2/2	Used
PER08	364	<b>Communication Number</b> <b>Description:</b> Complete communications number including country or area code when applicable	X	AN	1/80	Used
PER09	443	<b>Contact Inquiry Reference</b> <b>Description:</b> Additional reference number or description to clarify a contact number	O	AN	1/20	Used

## 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.
3. P0708 - If either PER07 or PER08 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

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	<b>Shipment Method of Payment</b> <b>Description:</b> Code identifying payment terms for transportation charges <b>All valid standard codes are used.</b>	M	ID	2/2	Must use
FOB02	309	<b>Location Qualifier</b> <b>Description:</b> Code identifying type of location <b>All valid standard codes are used.</b>	X	ID	1/2	Used
FOB03	352	<b>Description</b> <b>Description:</b> A free-form description to clarify the related data elements and their content	O	AN	1/80	Used
FOB04	334	<b>Transportation Terms Qualifier Code</b> <b>Description:</b> Code identifying the source of the transportation terms <b>All valid standard codes are used.</b>	O	ID	2/2	Used
FOB05	335	<b>Transportation Terms Code</b> <b>Description:</b> Code identifying the trade terms which apply to the shipment transportation responsibility <b>All valid standard codes are used.</b>	X	ID	3/3	Used
FOB06	309	<b>Location Qualifier</b> <b>Description:</b> Code identifying type of location <b>All valid standard codes are used.</b>	X	ID	1/2	Used
FOB07	352	<b>Description</b> <b>Description:</b> A free-form description to clarify the related data elements and their content	O	AN	1/80	Used
FOB08	54	<b>Risk of Loss Code</b> <b>Description:</b> Code specifying where responsibility for risk of loss passes <b>All valid standard codes are used.</b>	O	ID	2/2	Used
FOB09	352	<b>Description</b> <b>Description:</b> A free-form description to clarify the related data elements and their content	X	AN	1/80	Used

## 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

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	<b>Unit or Basis for Measurement Code</b> <b>Description:</b> Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken <b>All valid standard codes are used.</b>	M	ID	2/2	Must use
SDQ02	66	<b>Identification Code Qualifier</b> <b>Description:</b> Code designating the system/method of code structure used for Identification Code (67) <b>All valid standard codes are used.</b>	O	ID	1/2	Used
SDQ03	67	<b>Identification Code</b> <b>Description:</b> Code identifying a party or other code	M	AN	2/80	Must use
SDQ04	380	<b>Quantity</b> <b>Description:</b> Numeric value of quantity	M	R	1/15	Must use
SDQ05	67	<b>Identification Code</b> <b>Description:</b> Code identifying a party or other code	X	AN	2/80	Used
SDQ06	380	<b>Quantity</b> <b>Description:</b> Numeric value of quantity	X	R	1/15	Used
SDQ07	67	<b>Identification Code</b> <b>Description:</b> Code identifying a party or other code	X	AN	2/80	Used
SDQ08	380	<b>Quantity</b> <b>Description:</b> Numeric value of quantity	X	R	1/15	Used
SDQ09	67	<b>Identification Code</b> <b>Description:</b> Code identifying a party or other code	X	AN	2/80	Used
SDQ10	380	<b>Quantity</b> <b>Description:</b> Numeric value of quantity	X	R	1/15	Used
SDQ11	67	<b>Identification Code</b> <b>Description:</b> Code identifying a party or other code	X	AN	2/80	Used
SDQ12	380	<b>Quantity</b> <b>Description:</b> Numeric value of quantity	X	R	1/15	Used
SDQ13	67	<b>Identification Code</b> <b>Description:</b> Code identifying a party or other code	X	AN	2/80	Used
SDQ14	380	<b>Quantity</b> <b>Description:</b> Numeric value of quantity	X	R	1/15	Used
SDQ15	67	<b>Identification Code</b> <b>Description:</b> Code identifying a party or other code	X	AN	2/80	Used

SDQ16	380	<b>Quantity</b> <b>Description:</b> Numeric value of quantity	X	R	1/15	Used
SDQ17	67	<b>Identification Code</b> <b>Description:</b> Code identifying a party or other code	X	AN	2/80	Used
SDQ18	380	<b>Quantity</b> <b>Description:</b> Numeric value of quantity	X	R	1/15	Used
SDQ19	67	<b>Identification Code</b> <b>Description:</b> Code identifying a party or other code	X	AN	2/80	Used
SDQ20	380	<b>Quantity</b> <b>Description:</b> Numeric value of quantity	X	R	1/15	Used
SDQ21	67	<b>Identification Code</b> <b>Description:</b> Code identifying a party or other code	X	AN	2/80	Used
SDQ22	380	<b>Quantity</b> <b>Description:</b> Numeric value of quantity	X	R	1/15	Used
SDQ23	310	<b>Location Identifier</b> <b>Description:</b> Code which identifies a specific location	O	AN	1/30	Used

### Syntax Rules:

1. P0506 - If either SDQ05 or SDQ06 is present, then the other is required.
2. P0708 - If either SDQ07 or SDQ08 is present, then the other is required.
3. P0910 - If either SDQ09 or SDQ10 is present, then the other is required.
4. P1112 - If either SDQ11 or SDQ12 is present, then the other is required.
5. P1314 - If either SDQ13 or SDQ14 is present, then the other is required.
6. P1516 - If either SDQ15 or SDQ16 is present, then the other is required.
7. P1718 - If either SDQ17 or SDQ18 is present, then the other is required.
8. P1920 - If either SDQ19 or SDQ20 is present, then the other is required.
9. P2122 - If either SDQ21 or SDQ22 is present, then the other 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. SDQ03 is the store number.
3. 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

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	<b>Excess Transportation Reason Code</b> <b>Description:</b> Code identifying the reason for shipment via premium transportation rather than the normal mode of transportation <b>All valid standard codes are used.</b>	M	ID	1/2	Must use
ETD02	627	<b>Excess Transportation Responsibility Code</b> <b>Description:</b> Code identifying the organization responsible for paying the premium transportation costs <b>All valid standard codes are used.</b>	M	ID	1/1	Must use
ETD03	128	<b>Reference Identification Qualifier</b> <b>Description:</b> Code qualifying the Reference Identification <b>All valid standard codes are used.</b>	X	ID	2/3	Used
ETD04	127	<b>Reference Identification</b> <b>Description:</b> Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	X	AN	1/30	Used
ETD05	743	<b>Returnable Container Freight Payment Responsibility Code</b> <b>Description:</b> Code specifying the responsibility for the return freight costs incurred when returnable containers are shipped in a premium transportation <b>All valid standard codes are used.</b>	O	ID	1/2	Used

## Syntax Rules:

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

## Semantics:

1. ETD03 qualifies the authorization number given in EDT04.

# CUR Currency

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

**User Option (Usage):** Used

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	<b>Entity Identifier Code</b> <b>Description:</b> Code identifying an organizational entity, a physical location, property or an individual <b>All valid standard codes are used.</b>	M	ID	2/3	Must use
CUR02	100	<b>Currency Code</b> <b>Description:</b> Code (Standard ISO) for country in whose currency the charges are specified	M	ID	3/3	Must use
CUR03	280	<b>Exchange Rate</b> <b>Description:</b> Value to be used as a multiplier conversion factor to convert monetary value from one currency to another	O	R	4/10	Used
CUR04	98	<b>Entity Identifier Code</b> <b>Description:</b> Code identifying an organizational entity, a physical location, property or an individual <b>All valid standard codes are used.</b>	O	ID	2/3	Used
CUR05	100	<b>Currency Code</b> <b>Description:</b> Code (Standard ISO) for country in whose currency the charges are specified	O	ID	3/3	Used
CUR06	669	<b>Currency Market/Exchange Code</b> <b>Description:</b> Code identifying the market upon which the currency exchange rate is based <b>All valid standard codes are used.</b>	O	ID	3/3	Used
CUR07	374	<b>Date/Time Qualifier</b> <b>Description:</b> Code specifying type of date or time, or both date and time <b>All valid standard codes are used.</b>	X	ID	3/3	Used
CUR08	373	<b>Date</b> <b>Description:</b> Date expressed as CCYYMMDD	O	DT	8/8	Used
CUR09	337	<b>Time</b> <b>Description:</b> 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)	O	TM	4/8	Used
CUR10	374	<b>Date/Time Qualifier</b>	X	ID	3/3	Used

		<b>Description:</b> Code specifying type of date or time, or both date and time <b>All valid standard codes are used.</b>				
CUR11	373	<b>Date</b> <b>Description:</b> Date expressed as CCYYMMDD	X	DT	8/8	Used
CUR12	337	<b>Time</b> <b>Description:</b> 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)	X	TM	4/8	Used
CUR13	374	<b>Date/Time Qualifier</b> <b>Description:</b> Code specifying type of date or time, or both date and time <b>All valid standard codes are used.</b>	X	ID	3/3	Used
CUR14	373	<b>Date</b> <b>Description:</b> Date expressed as CCYYMMDD	X	DT	8/8	Used
CUR15	337	<b>Time</b> <b>Description:</b> 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)	X	TM	4/8	Used
CUR16	374	<b>Date/Time Qualifier</b> <b>Description:</b> Code specifying type of date or time, or both date and time <b>All valid standard codes are used.</b>	X	ID	3/3	Used
CUR17	373	<b>Date</b> <b>Description:</b> Date expressed as CCYYMMDD	X	DT	8/8	Used
CUR18	337	<b>Time</b> <b>Description:</b> 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)	X	TM	4/8	Used
CUR19	374	<b>Date/Time Qualifier</b> <b>Description:</b> Code specifying type of date or time, or both date and time <b>All valid standard codes are used.</b>	X	ID	3/3	Used
CUR20	373	<b>Date</b> <b>Description:</b> Date expressed as CCYYMMDD	X	DT	8/8	Used
CUR21	337	<b>Time</b> <b>Description:</b> 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	X	TM	4/8	Used

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. L101112 - If CUR10 is present, then at least one of CUR11 or CUR12 is required.
4. C1110 - If CUR11 is present, then CUR10 is required.
5. C1210 - If CUR12 is present, then CUR10 is required.
6. L131415 - If CUR13 is present, then at least one of CUR14 or CUR15 is required.
7. C1413 - If CUR14 is present, then CUR13 is required.
8. C1513 - If CUR15 is present, then CUR13 is required.
9. L161718 - If CUR16 is present, then at least one of CUR17 or CUR18 is required.
10. C1716 - If CUR17 is present, then CUR16 is required.
11. C1816 - If CUR18 is present, then CUR16 is required.
12. L192021 - If CUR19 is present, then at least one of CUR20 or CUR21 is required.
13. C2019 - If CUR20 is present, then CUR19 is required.
14. C2119 - If CUR21 is present, then CUR19 is required.

**Comments:**

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

# Loop SAC

Pos: 320	Repeat: >1
Optional	
Loop: SAC	Elements: N/A

To request or identify a service, promotion, allowance, or charge; to specify the amount or percentage for the service, promotion, allowance, or charge

## 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>
320	SAC	Service, Promotion, Allowance, or Charge Information	O	1		Used
325	CUR	Currency	O	1		Used

# SAC Service, Promotion, Allowance, or Charge Information

Pos: 320	Max: 1
Detail - Optional	
Loop: SAC	Elements: 16

**User Option (Usage):** Used

To request or identify a service, promotion, allowance, or charge; to specify the amount or percentage for the service, promotion, allowance, or charge

## 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>
SAC01	248	<b>Allowance or Charge Indicator</b> <b>Description:</b> Code which indicates an allowance or charge for the service specified <b>All valid standard codes are used.</b>	M	ID	1/1	Must use
SAC02	1300	<b>Service, Promotion, Allowance, or Charge Code</b> <b>Description:</b> Code identifying the service, promotion, allowance, or charge <b>All valid standard codes are used.</b>	X	ID	4/4	Used
SAC03	559	<b>Agency Qualifier Code</b> <b>Description:</b> Code identifying the agency assigning the code values <b>All valid standard codes are used.</b>	X	ID	2/2	Used
SAC04	1301	<b>Agency Service, Promotion, Allowance, or Charge Code</b> <b>Description:</b> Agency maintained code identifying the service, promotion, allowance, or charge	X	AN	1/10	Used
SAC05	610	<b>Amount</b> <b>Description:</b> Monetary amount	O	N2	1/15	Used
SAC06	378	<b>Allowance/Charge Percent Qualifier</b> <b>Description:</b> Code indicating on what basis allowance or charge percent is calculated <b>All valid standard codes are used.</b>	X	ID	1/1	Used
SAC07	332	<b>Percent</b> <b>Description:</b> Percent expressed as a percent	X	R	1/6	Used
SAC08	118	<b>Rate</b> <b>Description:</b> Rate expressed in the standard monetary denomination for the currency specified	O	R	1/9	Used
SAC09	355	<b>Unit or Basis for Measurement Code</b> <b>Description:</b> Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken <b>All valid standard codes are used.</b>	X	ID	2/2	Used
SAC10	380	<b>Quantity</b> <b>Description:</b> Numeric value of quantity	X	R	1/15	Used
SAC11	380	<b>Quantity</b> <b>Description:</b> Numeric value of quantity	O	R	1/15	Used

SAC12	331	<b>Allowance or Charge Method of Handling Code</b> <b>Description:</b> Code indicating method of handling for an allowance or charge <b>All valid standard codes are used.</b>	O	ID	2/2	Used
SAC13	127	<b>Reference Identification</b> <b>Description:</b> Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	X	AN	1/30	Used
SAC14	770	<b>Option Number</b> <b>Description:</b> A unique number identifying available promotion or allowance options when more than one is offered	O	AN	1/20	Used
SAC15	352	<b>Description</b> <b>Description:</b> A free-form description to clarify the related data elements and their content	X	AN	1/80	Used
SAC16	819	<b>Language Code</b> <b>Description:</b> Code designating the language used in text, from a standard code list maintained by the International Standards Organization (ISO 639)	O	ID	2/3	Used

### Syntax Rules:

1. R0203 - At least one of SAC02 or SAC03 is required.
2. P0304 - If either SAC03 or SAC04 is present, then the other is required.
3. P0607 - If either SAC06 or SAC07 is present, then the other is required.
4. P0910 - If either SAC09 or SAC10 is present, then the other is required.
5. C1110 - If SAC11 is present, then SAC10 is required.
6. L130204 - If SAC13 is present, then at least one of SAC02 or SAC04 is required.
7. C1413 - If SAC14 is present, then SAC13 is required.
8. C1615 - If SAC16 is present, then SAC15 is required.

### Semantics:

1. If SAC01 is "A" or "C", then at least one of SAC05, SAC07, or SAC08 is required.
2. SAC05 is the total amount for the service, promotion, allowance, or charge.
3. If SAC05 is present with SAC07 or SAC08, then SAC05 takes precedence.
4. SAC08 is the allowance or charge rate per unit.
5. SAC10 and SAC11 is the quantity basis when the allowance or charge quantity is different from the purchase order or invoice quantity.
6. SAC10 and SAC11 used together indicate a quantity range, which could be a dollar amount, that is applicable to service, promotion, allowance, or charge.
7. SAC13 is used in conjunction with SAC02 or SAC04 to provide a specific reference number as identified by the code used.
8. SAC14 is used in conjunction with SAC13 to identify an option when there is more than one option of the promotion.
9. SAC16 is used to identify the language being used in SAC15.

### Comments:

1. SAC04 may be used to uniquely identify the service, promotion, allowance, or charge. In addition, it may be used in conjunction to further the code in SAC02.
2. In some business applications, it is necessary to advise the trading partner of the actual dollar amount that a particular allowance, charge, or promotion was based on to reduce ambiguity. This amount is commonly referred to as "Dollar Basis Amount". It is represented in the SAC segment in SAC10 using the qualifier "DO" - Dollars in SAC09.

# CUR Currency

Pos: 325	Max: 1
Detail - Optional	
Loop: SAC	Elements: 21

**User Option (Usage):** Used

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	<b>Entity Identifier Code</b> <b>Description:</b> Code identifying an organizational entity, a physical location, property or an individual <b>All valid standard codes are used.</b>	M	ID	2/3	Must use
CUR02	100	<b>Currency Code</b> <b>Description:</b> Code (Standard ISO) for country in whose currency the charges are specified	M	ID	3/3	Must use
CUR03	280	<b>Exchange Rate</b> <b>Description:</b> Value to be used as a multiplier conversion factor to convert monetary value from one currency to another	O	R	4/10	Used
CUR04	98	<b>Entity Identifier Code</b> <b>Description:</b> Code identifying an organizational entity, a physical location, property or an individual <b>All valid standard codes are used.</b>	O	ID	2/3	Used
CUR05	100	<b>Currency Code</b> <b>Description:</b> Code (Standard ISO) for country in whose currency the charges are specified	O	ID	3/3	Used
CUR06	669	<b>Currency Market/Exchange Code</b> <b>Description:</b> Code identifying the market upon which the currency exchange rate is based <b>All valid standard codes are used.</b>	O	ID	3/3	Used
CUR07	374	<b>Date/Time Qualifier</b> <b>Description:</b> Code specifying type of date or time, or both date and time <b>All valid standard codes are used.</b>	X	ID	3/3	Used
CUR08	373	<b>Date</b> <b>Description:</b> Date expressed as CCYYMMDD	O	DT	8/8	Used
CUR09	337	<b>Time</b> <b>Description:</b> 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)	O	TM	4/8	Used
CUR10	374	<b>Date/Time Qualifier</b>	X	ID	3/3	Used

		<b>Description:</b> Code specifying type of date or time, or both date and time <b>All valid standard codes are used.</b>				
CUR11	373	<b>Date</b> <b>Description:</b> Date expressed as CCYYMMDD	X	DT	8/8	Used
CUR12	337	<b>Time</b> <b>Description:</b> 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)	X	TM	4/8	Used
CUR13	374	<b>Date/Time Qualifier</b> <b>Description:</b> Code specifying type of date or time, or both date and time <b>All valid standard codes are used.</b>	X	ID	3/3	Used
CUR14	373	<b>Date</b> <b>Description:</b> Date expressed as CCYYMMDD	X	DT	8/8	Used
CUR15	337	<b>Time</b> <b>Description:</b> 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)	X	TM	4/8	Used
CUR16	374	<b>Date/Time Qualifier</b> <b>Description:</b> Code specifying type of date or time, or both date and time <b>All valid standard codes are used.</b>	X	ID	3/3	Used
CUR17	373	<b>Date</b> <b>Description:</b> Date expressed as CCYYMMDD	X	DT	8/8	Used
CUR18	337	<b>Time</b> <b>Description:</b> 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)	X	TM	4/8	Used
CUR19	374	<b>Date/Time Qualifier</b> <b>Description:</b> Code specifying type of date or time, or both date and time <b>All valid standard codes are used.</b>	X	ID	3/3	Used
CUR20	373	<b>Date</b> <b>Description:</b> Date expressed as CCYYMMDD	X	DT	8/8	Used
CUR21	337	<b>Time</b> <b>Description:</b> 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	X	TM	4/8	Used

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. L101112 - If CUR10 is present, then at least one of CUR11 or CUR12 is required.
4. C1110 - If CUR11 is present, then CUR10 is required.
5. C1210 - If CUR12 is present, then CUR10 is required.
6. L131415 - If CUR13 is present, then at least one of CUR14 or CUR15 is required.
7. C1413 - If CUR14 is present, then CUR13 is required.
8. C1513 - If CUR15 is present, then CUR13 is required.
9. L161718 - If CUR16 is present, then at least one of CUR17 or CUR18 is required.
10. C1716 - If CUR17 is present, then CUR16 is required.
11. C1816 - If CUR18 is present, then CUR16 is required.
12. L192021 - If CUR19 is present, then at least one of CUR20 or CUR21 is required.
13. C2019 - If CUR20 is present, then CUR19 is required.
14. C2119 - If CUR21 is present, then CUR19 is required.

**Comments:**

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

# GF **Furnished Goods and Services**

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

**User Option (Usage):** Used

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	<b>Reference Identification Qualifier</b> <b>Description:</b> Code qualifying the Reference Identification <b>All valid standard codes are used.</b>	X	ID	2/3	Used
GF02	127	<b>Reference Identification</b> <b>Description:</b> Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	X	AN	1/30	Used
GF03	367	<b>Contract Number</b> <b>Description:</b> Contract number	O	AN	1/30	Used
GF04	782	<b>Monetary Amount</b> <b>Description:</b> Monetary amount	O	R	1/18	Used
GF05	128	<b>Reference Identification Qualifier</b> <b>Description:</b> Code qualifying the Reference Identification <b>All valid standard codes are used.</b>	X	ID	2/3	Used
GF06	127	<b>Reference Identification</b> <b>Description:</b> Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	X	AN	1/30	Used
GF07	328	<b>Release Number</b> <b>Description:</b> Number identifying a release against a Purchase Order previously placed by the parties involved in the transaction	O	AN	1/30	Used
GF08	128	<b>Reference Identification Qualifier</b> <b>Description:</b> Code qualifying the Reference Identification <b>All valid standard codes are used.</b>	X	ID	2/3	Used
GF09	127	<b>Reference Identification</b> <b>Description:</b> Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	X	AN	1/30	Used

## 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.

# YNQ Yes/No Question

Pos: 335	Max: 10
Detail - Optional	
Loop: HL	Elements: 10

**User Option (Usage):** Used

To identify and answer yes and no questions, including the date, time, and comments further qualifying the condition

## 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>
YNQ01	1321	<b>Condition Indicator</b> <b>Description:</b> Code indicating a condition <b>All valid standard codes are used.</b>	X	ID	2/2	Used
YNQ02	1073	<b>Yes/No Condition or Response Code</b> <b>Description:</b> Code indicating a Yes or No condition or response <b>All valid standard codes are used.</b>	M	ID	1/1	Must use
YNQ03	1250	<b>Date Time Period Format Qualifier</b> <b>Description:</b> Code indicating the date format, time format, or date and time format <b>All valid standard codes are used.</b>	X	ID	2/3	Used
YNQ04	1251	<b>Date Time Period</b> <b>Description:</b> Expression of a date, a time, or range of dates, times or dates and times	X	AN	1/35	Used
YNQ05	933	<b>Free-Form Message Text</b> <b>Description:</b> Free-form message text	O	AN	1/264	Used
YNQ06	933	<b>Free-Form Message Text</b> <b>Description:</b> Free-form message text	O	AN	1/264	Used
YNQ07	933	<b>Free-Form Message Text</b> <b>Description:</b> Free-form message text	O	AN	1/264	Used
YNQ08	1270	<b>Code List Qualifier Code</b> <b>Description:</b> Code identifying a specific industry code list <b>All valid standard codes are used.</b>	X	ID	1/3	Used
YNQ09	1271	<b>Industry Code</b> <b>Description:</b> Code indicating a code from a specific industry code list	X	AN	1/30	Used
YNQ10	933	<b>Free-Form Message Text</b> <b>Description:</b> Free-form message text	X	AN	1/264	Used

## Syntax Rules:

1. E010910 - Only one of YNQ01, YNQ09 or YNQ10 may be present.
2. P0304 - If either YNQ03 or YNQ04 is present, then the other is required.
3. C0908 - If YNQ09 is present, then YNQ08 is required.

## Semantics:

1. YNQ02 confirms or denies the statement made in YNQ01, YNQ09 or YNQ10. A "Y" indicates the statement is confirmed; an "N" indicates the statement is denied.
2. YNQ10 contains a free-form question when codified questions are not available.

# Loop LM

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

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

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	<b>Agency Qualifier Code</b> <b>Description:</b> Code identifying the agency assigning the code values <b>All valid standard codes are used.</b>	M	ID	2/2	Must use
LM02	822	<b>Source Subqualifier</b> <b>Description:</b> A reference that indicates the table or text maintained by the Source Qualifier	O	AN	1/15	Used

**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

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	<b>Code List Qualifier Code</b> <b>Description:</b> Code identifying a specific industry code list <b>All valid standard codes are used.</b>	O	ID	1/3	Used
LQ02	1271	<b>Industry Code</b> <b>Description:</b> Code indicating a code from a specific industry code list	X	AN	1/30	Used

## Syntax Rules:

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

# Loop V1

Pos: 360	Repeat: >1
	Optional
Loop: V1	Elements: N/A

To provide vessel details and voyage number

## 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>
360	V1	Vessel Identification	O	1		Used
370	R4	Port or Terminal	O	>1		Used
380	DTM	Date/Time Reference	O	>1		Used

# V1 Vessel Identification

Pos: 360	Max: 1
Detail - Optional	
Loop: V1	Elements: 9

**User Option (Usage):** Used

To provide vessel details and voyage 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>
V101	597	<b>Vessel Code</b> <b>Description:</b> Code identifying vessel	X	ID	1/8	Used
V102	182	<b>Vessel Name</b> <b>Description:</b> Name of ship as documented in "Lloyd's Register of Ships"	X	AN	2/28	Used
V103	26	<b>Country Code</b> <b>Description:</b> Code identifying the country	O	ID	2/3	Used
V104	55	<b>Flight/Voyage Number</b> <b>Description:</b> Identifying designator for the particular flight or voyage on which the cargo travels	O	AN	2/10	Used
V105	140	<b>Standard Carrier Alpha Code</b> <b>Description:</b> Standard Carrier Alpha Code	O	ID	2/4	Used
V106	249	<b>Vessel Requirement Code</b> <b>Description:</b> Code specifying options for satisfying vessel requirements <b>All valid standard codes are used.</b>	O	ID	1/1	Used
V107	854	<b>Vessel Type Code</b> <b>Description:</b> Code to determine type of vessel <b>All valid standard codes are used.</b>	O	ID	2/2	Used
V108	897	<b>Vessel Code Qualifier</b> <b>Description:</b> Code specifying vessel code source <b>All valid standard codes are used.</b>	O	ID	1/1	Used
V109	91	<b>Transportation Method/Type Code</b> <b>Description:</b> Code specifying the method or type of transportation for the shipment <b>All valid standard codes are used.</b>	O	ID	1/2	Used

## Syntax Rules:

1. R0102 - At least one of V101 or V102 is required.
2. C0801 - If V108 is present, then V101 is required.

## Semantics:

1. V103 is the code identifying the country in which the ship (vessel) is registered.
2. V105 identifies the ocean carrier.

# R4 Port or Terminal

Pos: 370	Max: >1
Detail - Optional	
Loop: V1	Elements: 8

**User Option (Usage):** Used

Contractual or operational port or point relevant to the movement of the cargo

## 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>
R401	115	<b>Port or Terminal Function Code</b> <b>Description:</b> Code defining function performed at the port or terminal with respect to a shipment <b>All valid standard codes are used.</b>	M	ID	1/1	Must use
R402	309	<b>Location Qualifier</b> <b>Description:</b> Code identifying type of location <b>All valid standard codes are used.</b>	X	ID	1/2	Used
R403	310	<b>Location Identifier</b> <b>Description:</b> Code which identifies a specific location	X	AN	1/30	Used
R404	114	<b>Port Name</b> <b>Description:</b> Free-form name for the place at which an offshore carrier originates or terminates (by transshipment or otherwise) its actual ocean carriage of property	O	AN	2/24	Used
R405	26	<b>Country Code</b> <b>Description:</b> Code identifying the country	O	ID	2/3	Used
R406	174	<b>Terminal Name</b> <b>Description:</b> Free-form field for terminal name	O	AN	2/30	Used
R407	113	<b>Pier Number</b> <b>Description:</b> Identifying number for the pier	O	AN	1/4	Used
R408	156	<b>State or Province Code</b> <b>Description:</b> Code (Standard State/Province) as defined by appropriate government agency	O	ID	2/2	Used

## Syntax Rules:

1. P0203 - If either R402 or R403 is present, then the other is required.

## Comments:

1. R4 is required for each port to be identified.

# DTM Date/Time Reference

Pos: 380	Max: >1
Detail - Optional	
Loop: V1	Elements: 6

**User Option (Usage):** Used

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	<b>Date/Time Qualifier</b> <b>Description:</b> Code specifying type of date or time, or both date and time <b>All valid standard codes are used.</b>	M	ID	3/3	Must use
DTM02	373	<b>Date</b> <b>Description:</b> Date expressed as CCYYMMDD	X	DT	8/8	Used
DTM03	337	<b>Time</b> <b>Description:</b> 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)	X	TM	4/8	Used
DTM04	623	<b>Time Code</b> <b>Description:</b> 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 <b>All valid standard codes are used.</b>	O	ID	2/2	Used
DTM05	1250	<b>Date Time Period Format Qualifier</b> <b>Description:</b> Code indicating the date format, time format, or date and time format <b>All valid standard codes are used.</b>	X	ID	2/3	Used
DTM06	1251	<b>Date Time Period</b> <b>Description:</b> Expression of a date, a time, or range of dates, times or dates and times	X	AN	1/35	Used

## Syntax Rules:

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

# CTT Transaction Totals

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

**User Option (Usage):** Used

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	<b>Number of Line Items</b> <b>Description:</b> Total number of line items in the transaction set	M	NO	1/6	Must use
CTT02	347	<b>Hash Total</b> <b>Description:</b> Sum of values of the specified data element. All values in the data element will be summed without regard to decimal points (explicit or implicit) or signs. Truncation will occur on the left most digits if the sum is greater than the maximum size of the hash total of the data element. Example: -.0018 First occurrence of value being hashed. .18 Second occurrence of value being hashed. 1.8 Third occurrence of value being hashed. 18.01 Fourth occurrence of value being hashed. ----- 1855 Hash total prior to truncation. 855 Hash total after truncation to three-digit field.	O	R	1/10	Used
CTT03	81	<b>Weight</b> <b>Description:</b> Numeric value of weight	X	R	1/10	Used
CTT04	355	<b>Unit or Basis for Measurement Code</b> <b>Description:</b> Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken <b>All valid standard codes are used.</b>	X	ID	2/2	Used
CTT05	183	<b>Volume</b> <b>Description:</b> Value of volumetric measure	X	R	1/8	Used
CTT06	355	<b>Unit or Basis for Measurement Code</b> <b>Description:</b> Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken <b>All valid standard codes are used.</b>	X	ID	2/2	Used
CTT07	352	<b>Description</b> <b>Description:</b> A free-form description to clarify the related data elements and their content	O	AN	1/80	Used

## Syntax Rules:

1. P0304 - If either CTT03 or CTT04 is present, then the other is required.
2. P0506 - If either CTT05 or CTT06 is present, then the other 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

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	<b>Number of Included Segments</b> <b>Description:</b> Total number of segments included in a transaction set including ST and SE segments	M	NO	1/10	Must use
SE02	329	<b>Transaction Set Control Number</b> <b>Description:</b> Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set	M	AN	4/9	Must use

## Comments:

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

# GE Functional Group Trailer

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

**User Option (Usage):** Must use

To indicate the end of a functional group and to provide control 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>
GE01	97	<b>Number of Transaction Sets Included</b> <b>Description:</b> Total number of transaction sets included in the functional group or interchange (transmission) group terminated by the trailer containing this data element	M	NO	1/6	Must use
GE02	28	<b>Group Control Number</b> <b>Description:</b> Assigned number originated and maintained by the sender	M	NO	1/9	Must use

## Semantics:

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

## Comments:

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

# IEA Interchange Control Trailer

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

**User Option (Usage):** Must use

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

## Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
IEA01	I16	<b>Number of Included Functional Groups</b> <b>Description:</b> A count of the number of functional groups included in an interchange	M	NO	1/5	Must use
IEA02	I12	<b>Interchange Control Number</b> <b>Description:</b> A control number assigned by the interchange sender	M	NO	9/9	Must use