

A Book Industry System Advisory Committee Implementation Guideline for EDI

857 SHIPMENT AND BILLING NOTICE (RETURN DOCUMENT)

VERSION: DECEMBER 1997 FINAL

Author:	Advance Ship Notice Committee
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857 Shipment and Billing Notice (Return Document)

Functional Group=**BS**

This Draft Standard for Trial Use contains the format and establishes the data contents of the Shipment and Billing Notice Transaction Set (857) for use within the context of an Electronic Data Interchange (EDI) environment. This transaction set provides the recipient of a shipment with data for both receipt planning and payment generation.

EDI and telecommunications technologies suggest efficiencies in the way business data is processed. For example, the sender of a shipment may send the recipient's receiving function a Ship Notice/Manifest (856), and the payables function an Invoice (810), even though the contents of these two documents may be largely redundant. In certain business environments, the Shipment and Billing Notice permits the consolidation of these two documents into one.

Specifically, this transaction set is appropriate where the shipment data, when it includes terms and item prices, can be used both to plan receipts and to generate payment. In this environment, the exact prices for the items shipped may not be known in advance by both parties. This transaction set is not appropriate in so-called Evaluated Receipts Settlement (ERS) environments, in which the exact prices for the items shipped have been agreed upon by, and are known to, both parties in advance.

This transaction set is not to be used to replace the Ship Notice/Manifest (856) or Invoice (810) individually, but only to replace both, together. For example, do not use this transaction set in place of a Ship Notice/Manifest while continuing to send either paper or electronic invoice.

Notes:

- 1/020 BHT01, Hierarchical Structure Code, may only contain the code values 0001, 0002, and 0003.
When BHT01, the Hierarchical Structure Code, contains a value of 0001, the levels of the transaction set are Shipment, Order, Tare (pallet), Pack (carton), Subpack, and Item. The levels, when used, must always appear (in the transmission) in the above order, e.g., the tare level cannot be subordinate to the item level; however, the pack level may be omitted.
When BHT01, the Hierarchical Structure Code, contains a value of 0002, the levels of the transaction set are Shipment, Order, Item, Tare (pallet), Pack (carton), and Subpack. The levels, when used, must always appear (in the transmission) in the above order, e.g., the tare level cannot be subordinate to the pack level; however, the tare level may be omitted.
When BHT01, Hierarchical Structure Code, contains a value of 0003, the levels of the transaction set are Shipment, Tare (pallet), Pack (carton), Subpack, Order and Item. The levels, when used, must always appear (in the transaction set) in the above order, e.g., the pack level can not be subordinate to the order level, however the pack level may be omitted.
BHT03 and BHT04 are mandatory.
- 1/030 HL01 (Hierarchical ID Number) will be assigned sequentially within the hierarchy starting with one and incremented by one for each HL segment.
HL02 (Hierarchical Parent ID) will have the value of 0 when used at the Shipment Level.
HL03 (Hierarchical Level Code) may only contain the codes: S (Shipment Level), O (Order Level), T (Tare Level), P (Pack Level), Q (Subpack Level), and I (Item Level).
- 1/040 The BS1 loop may only be used at the Shipment Level.
The transaction set shall contain one and only one occurrence of the BS1 loop, Shipment level.
- 1/030 HL01 (Hierarchical ID Number) will be assigned sequentially within the hierarchy starting with one and incremented by one for each HL segment.
HL02 (Hierarchical Parent ID) will have the value of 0 when used at the Shipment Level.
HL03 (Hierarchical Level Code) may only contain the codes: S (Shipment Level), O (Order Level), T (Tare Level), P (Pack Level), Q (Subpack Level), and I (Item Level).
- 1/180 The BS2 loop may only be used at the Order Level.
The Transaction Set shall contain at least one occurrence of the BS2 loop, Order Level.
- 1/030 HL01 (Hierarchical ID Number) will be assigned sequentially within the hierarchy starting with one and incremented by one for each HL segment.

- HL02 (Hierarchical Parent ID) will have the value of 0 when used at the Shipment Level.
HL03 (Hierarchical Level Code) may only contain the codes: S (Shipment Level), O (Order Level), T (Tare Level), P (Pack Level), Q (Subpack Level), and I (Item Level).
- 1/300 The BS3 loop may only be used at the Tare (pallet) Level.
- 1/030 HL01 (Hierarchical ID Number) will be assigned sequentially within the hierarchy starting with one and incremented by one for each HL segment.
HL02 (Hierarchical Parent ID) will have the value of 0 when used at the Shipment Level.
HL03 (Hierarchical Level Code) may only contain the codes: S (Shipment Level), O (Order Level), T (Tare Level), P (Pack Level), Q (Subpack Level), and I (Item Level).
- 1/320 The BS4 loop may only be used at the Pack (carton) and Subpack Levels. The Subpack Level may only be used in conjunction with the Pack Level.
LX01 (Assigned Number) will be sequentially assigned starting with one and incremented by one for each LX segment. The LX segment is used to bound the segments for the Pack and Subpack Levels to allow all segments within the loop to be optional. It has no relevance to the application data being sent.
- 1/030 HL01 (Hierarchical ID Number) will be assigned sequentially within the hierarchy starting with one and incremented by one for each HL segment.
HL02 (Hierarchical Parent ID) will have the value of 0 when used at the Shipment Level.
HL03 (Hierarchical Level Code) may only contain the codes: S (Shipment Level), O (Order Level), T (Tare Level), P (Pack Level), Q (Subpack Level), and I (Item Level).
- 1/370 The BS5 loop may only be used at the Item Level.
There shall be at least one occurrence of the BS5 loop, Item Level within each Order Level.

Comments:

- 1/010 The structure of this transaction set is one shipment of one or more orders.
This transaction set is used to convey information that is normally found on a shipping/receiving document and a invoice, in a paper environment. In most cases prices are excluded from the receiving documents. Care should be exercised to keep this information from the receiving area if it is the current practice to exclude such information. It may be prudent to consult an auditor or legal representative if there is any question.

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		C1/010	Required
020	BHT	Beginning of Hierarchical Transaction	M	1		N1/020	Required
LOOP ID - HL - S					≥1		
030	HL	Hierarchical Level - SHIPMENT	M	1		N1/030	Used
LOOP ID - BS1					1		
040	G05	Total Shipment Information	O	1		N1/040	Used
080	TD5	Carrier Details (Routing Sequence/Transit Time)	O	10			Used
090	FOB	F.O.B. Related Instructions	O	1			Used
100	DTM	Date/Time Reference	O	5			Used
110	N9	Reference Identification	O	20			Used
120	PER	Administrative Communications Contact	O	5			Used
130	CUR	Currency	O	1			Used
LOOP ID - N1					10		
140	N1	Name	O	1			Used
150	N2	Additional Name Information	O	2			Used
160	N3	Address Information	O	2			Used
170	N4	Geographic Location	O	1			Used
LOOP ID - HL - O					≥1		
030	HL	Hierarchical Level - ORDER	M	1		N1/030	Used

<u>Pos</u>	<u>Id</u>	<u>Segment Name</u>	<u>Req</u>	<u>Max Use</u>	<u>Repeat</u>	<u>Notes</u>	<u>Usage</u>
LOOP ID - BS2					1		
180	TDS	Total Monetary Value Summary	O	1		N1/180	Used
190	PRF	Purchase Order Reference	O	1			Used
200	N9	Reference Identification	O	>1			Used
210	DTM	Date/Time Reference	O	10			Used
230	TXI	Tax Information	O	10			Used
LOOP ID - SAC					25		
240	SAC	Service, Promotion, Allowance, or Charge Information	O	1			Used
LOOP ID - HL - T					≥1		
030	HL	Hierarchical Level - TARE	M	1		N1/030	Used
LOOP ID - BS3					1		
300	PAL	Pallet Information	O	1		N1/300	Used
310	MAN	Marks and Numbers	O	10			Used
LOOP ID - HL - P					≥1		
030	HL	Hierarchical Level - PACK	M	1		N1/030	Used
LOOP ID - BS4					1		
320	LX	Assigned Number	O	1		N1/320	Used
325	N9	Reference Identification	O	15			Used
330	PO4	Item Physical Details	O	1			Used
350	PKG	Marking, Packaging, Loading	O	10			Used
360	MAN	Marks and Numbers	O	10			Used
LOOP ID - HL - I					≥1		
030	HL	Hierarchical Level - ITEM	M	1		N1/030	Used
LOOP ID - BS5					1		
370	IT1	Baseline Item Data (Invoice)	O	1		N1/370	Used
390	PO4	Item Physical Details	O	1			Used
410	TXI	Tax Information	O	10			Used
420	CTP	Pricing Information	O	10			Used
430	N9	Reference Identification	O	10			Used
LOOP ID - PID					25		
450	PID	Product/Item Description	O	1			Used
LOOP ID - SAC					25		
490	SAC	Service, Promotion, Allowance, or Charge Information	O	1			Used
500	TXI	Tax Information	O	10			Used
510	SE	Transaction Set Trailer	M	1			Required

ST Transaction Set Header

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

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

Semantics:

- 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).

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>				
ST01	143	Transaction Set Identifier Code	M	ID	3/3	Required				
		Description: Code uniquely identifying a Transaction Set								
		<table border="1"> <thead> <tr> <th><u>Code</u></th> <th><u>Name</u></th> </tr> </thead> <tbody> <tr> <td>857</td> <td>X12.29 Shipment and Billing Notice</td> </tr> </tbody> </table>	<u>Code</u>	<u>Name</u>	857	X12.29 Shipment and Billing Notice				
<u>Code</u>	<u>Name</u>									
857	X12.29 Shipment and Billing Notice									
ST02	329	Transaction Set Control Number	M	AN	4/9	Required				
		Description: Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set								

BHT Beginning of Hierarchical Transaction

Pos: 020	Max: 1
Heading - Mandatory	
Loop: N/A	Elements: 6

To define the business hierarchical structure of the transaction set and identify the business application purpose and reference data, i.e., number, date, and time

Semantics:

1. BHT03 is the number assigned by the originator to identify the transaction within the originator's business application system.
2. BHT04 is the date the transaction was created within the business application system.
3. BHT05 is the time the transaction was created within the business application system.

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>						
BHT01	1005	Hierarchical Structure Code Description: Code indicating the hierarchical application structure of a transaction set that utilizes the HL segment to define the structure of the transaction set	M	ID	4/4	Required						
		<table border="1"> <thead> <tr> <th><u>Code</u></th> <th><u>Name</u></th> </tr> </thead> <tbody> <tr> <td>0001</td> <td>Shipment, Order, Packaging, Item</td> </tr> <tr> <td>0002</td> <td>Shipment, Order, Item, Packaging</td> </tr> </tbody> </table>	<u>Code</u>	<u>Name</u>	0001	Shipment, Order, Packaging, Item	0002	Shipment, Order, Item, Packaging				
<u>Code</u>	<u>Name</u>											
0001	Shipment, Order, Packaging, Item											
0002	Shipment, Order, Item, Packaging											
BHT02	353	Transaction Set Purpose Code Description: Code identifying purpose of transaction set	M	ID	2/2	Required						
		<table border="1"> <thead> <tr> <th><u>Code</u></th> <th><u>Name</u></th> </tr> </thead> <tbody> <tr> <td>00</td> <td>Original</td> </tr> <tr> <td>14</td> <td>Advance Notification</td> </tr> </tbody> </table>	<u>Code</u>	<u>Name</u>	00	Original	14	Advance Notification				
<u>Code</u>	<u>Name</u>											
00	Original											
14	Advance Notification											
BHT03	127	Reference Identification Description: Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	O	AN	1/30	Used						
BHT04	373	Date Description: Date (YYMMDD)	O	DT	6/6	Used						
BHT05	337	Time Description: Time expressed in 24-hour clock time as follows: HHMM, or HHMMSS, or HHMMSSD, or HHMMSSDD, where H = hours (00-23), M = minutes (00-59), S = integer seconds (00-59) and DD = decimal seconds; decimal seconds are expressed as follows: D = tenths (0-9) and DD = hundredths (00-99)	O	TM	4/8	Used						
BHT06	640	Transaction Type Code Description: Code specifying the type of transaction	O	ID	2/2	Used						
		<table border="1"> <thead> <tr> <th><u>Code</u></th> <th><u>Name</u></th> </tr> </thead> <tbody> <tr> <td>RD</td> <td>Returns Detail</td> </tr> </tbody> </table>	<u>Code</u>	<u>Name</u>	RD	Returns Detail						
<u>Code</u>	<u>Name</u>											
RD	Returns Detail											

HL Hierarchical Level - SHIPMENT

Pos: 030	Max: 1
Heading - Mandatory	
Loop: HL - S Elements: 4	

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

Comments:

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

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
HL01	628	Hierarchical ID Number Description: A unique number assigned by the sender to identify a particular data segment in a hierarchical structure	M	AN	1/12	Required
HL02	734	Hierarchical Parent ID Number Description: 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	Hierarchical Level Code Description: Code defining the characteristic of a level in a hierarchical structure	M	ID	1/2	Required
		<u>Code</u> <u>Name</u>				
		S Shipment				
HL04	736	Hierarchical Child Code Description: Code indicating if there are hierarchical child data segments subordinate to the level being described	O	ID	1/1	Used
		<u>Code</u> <u>Name</u>				
		0 No Subordinate HL Segment in This Hierarchical Structure.				
		1 Additional Subordinate HL Data Segment in This Hierarchical Structure.				

G05 Total Shipment Information

Pos: 040	Max: 1
Heading - Optional	
Loop: BS1	Elements: 8

To provide totals relating to the shipment

Syntax:

1. G0501 P0102 -- If either G0501 or G0502 are present, then the others are required.
2. G0501 R010305 -- At least one of G0501, G0503 or G0505 is required.
3. G0503 P0304 -- If either G0503 or G0504 are present, then the others are required.
4. G0505 P0506 -- If either G0505 or G0506 are present, then the others are required.
5. G0507 P0708 -- If either G0507 or G0508 are present, then the others are required.

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage								
G0501	382	Number of Units Shipped Description: Numeric value of units shipped in manufacturer's shipping units for a line item or transaction set	C	R	1/10	Used								
G0502	355	Unit or Basis for Measurement Code Description: Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken	C	ID	2/2	Used								
		<table border="1"> <thead> <tr> <th>Code</th> <th>Name</th> </tr> </thead> <tbody> <tr> <td>EA</td> <td>Each</td> </tr> <tr> <td>ST</td> <td>Set</td> </tr> <tr> <td>UN</td> <td>Unit</td> </tr> </tbody> </table>	Code	Name	EA	Each	ST	Set	UN	Unit				
Code	Name													
EA	Each													
ST	Set													
UN	Unit													
G0503	81	Weight Description: Numeric value of weight	C	R	1/10	Used								
G0504	355	Unit or Basis for Measurement Code Description: Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken	C	ID	2/2	Used								
		<table border="1"> <thead> <tr> <th>Code</th> <th>Name</th> </tr> </thead> <tbody> <tr> <td>KG</td> <td>Kilogram</td> </tr> <tr> <td>LB</td> <td>Pound</td> </tr> </tbody> </table>	Code	Name	KG	Kilogram	LB	Pound						
Code	Name													
KG	Kilogram													
LB	Pound													
* G0505	183	Volume Description: Value of volumetric measure	C	R	1/8	Not Used								
* G0506	355	Unit or Basis for Measurement Code Description: Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken	C	ID	2/2	Not Used								
G0507	80	Lading Quantity Description: Number of units (pieces) of the lading commodity	C	N0	1/7	Used								
G0508	355	Unit or Basis for Measurement Code Description: Code specifying the units in which a	C	ID	2/2	Used								

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
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value is being expressed, or manner in which a measurement has been taken

<u>Code</u>	<u>Name</u>
CH	Container
CT	Carton
PL	Pallet/Unit Load

TD5 Carrier Details (Routing Sequence/Transit Time)

Pos: 080	Max: 10
Heading - Optional	
Loop: BS1	Elements: 14

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

Syntax:

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

Comments:

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

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
TD501	133	Routing Sequence Code Description: Code describing the relationship of a carrier to a specific shipment movement	O	ID	1/2	Used
		<u>Code</u> <u>Name</u>				
		B Origin/Delivery Carrier (Any Mode)				
TD502	66	Identification Code Qualifier Description: Code designating the system/method of code structure used for Identification Code (67)	C	ID	1/2	Used
		<u>Code</u> <u>Name</u>				
		2 Standard Carrier Alpha Code (SCAC)				
TD503	67	Identification Code Description: Code identifying a party or other code	C	AN	2/20	Used
TD504	91	Transportation Method/Type Code Description: Code specifying the method or type of transportation for the shipment	C	ID	1/2	Used
		<u>Code</u> <u>Name</u>				
		T Best Way (Shippers Option)				
TD505	387	Routing Description: Free-form description of the routing or requested routing for shipment, or the originating carrier's identity	C	AN	1/35	Used
* TD506	368	Shipment/Order Status Code Description: Code indicating the status of an order or shipment or the disposition of any difference between the quantity ordered and the quantity shipped for a line item or transaction	C	ID	2/2	Not Used

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
* TD507	309	Location Qualifier Description: Code identifying type of location	O	ID	1/2	Not Used
* TD508	310	Location Identifier Description: Code which identifies a specific location	C	AN	1/30	Not Used
* TD509	731	Transit Direction Code Description: The point of origin and point of direction	O	ID	2/2	Not Used
* TD510	732	Transit Time Direction Qualifier Description: Code specifying the value of time used to measure the transit time	O	ID	2/2	Not Used
* TD511	733	Transit Time Description: The numeric amount of transit time	C	R	1/4	Not Used
* TD512	284	Service Level Code Description: Code indicating the level of transportation service or the billing service offered by the transportation carrier	C	ID	2/2	Not Used
* TD513	284	Service Level Code Description: Code indicating the level of transportation service or the billing service offered by the transportation carrier	C	ID	2/2	Not Used
* TD514	284	Service Level Code Description: Code indicating the level of transportation service or the billing service offered by the transportation carrier	O	ID	2/2	Not Used

FOB F.O.B. Related Instructions

Pos: 090	Max: 1
Heading - Optional	
Loop: BS1	Elements: 9

To specify transportation instructions relating to shipment

Syntax:

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

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>																				
FOB01	146	Shipment Method of Payment Description: Code identifying payment terms for transportation charges	M	ID	2/2	Required																				
		<table border="1"> <thead> <tr> <th><u>Code</u></th> <th><u>Name</u></th> </tr> </thead> <tbody> <tr><td>CA</td><td>Advance Collect</td></tr> <tr><td>CC</td><td>Collect</td></tr> <tr><td>CD</td><td>Collect on Delivery</td></tr> <tr><td>CF</td><td>Collect,Freight Credited Back to Customer</td></tr> <tr><td>DF</td><td>Defined by Buyer and Seller</td></tr> <tr><td>PA</td><td>Advance Prepaid</td></tr> <tr><td>PC</td><td>Prepaid but Charged to Customer</td></tr> <tr><td>PO</td><td>Prepaid Only</td></tr> <tr><td>PP</td><td>Prepaid (by Seller)</td></tr> </tbody> </table>	<u>Code</u>	<u>Name</u>	CA	Advance Collect	CC	Collect	CD	Collect on Delivery	CF	Collect,Freight Credited Back to Customer	DF	Defined by Buyer and Seller	PA	Advance Prepaid	PC	Prepaid but Charged to Customer	PO	Prepaid Only	PP	Prepaid (by Seller)				
<u>Code</u>	<u>Name</u>																									
CA	Advance Collect																									
CC	Collect																									
CD	Collect on Delivery																									
CF	Collect,Freight Credited Back to Customer																									
DF	Defined by Buyer and Seller																									
PA	Advance Prepaid																									
PC	Prepaid but Charged to Customer																									
PO	Prepaid Only																									
PP	Prepaid (by Seller)																									
* FOB02	309	Location Qualifier Description: Code identifying type of location	C	ID	1/2	Not Used																				
* FOB03	352	Description Description: A free-form description to clarify the related data elements and their content	O	AN	1/80	Not Used																				
* FOB04	334	Transportation Terms Qualifier Code Description: Code identifying the source of the transportation terms	O	ID	2/2	Not Used																				
* FOB05	335	Transportation Terms Code Description: Code identifying the trade terms which apply to the shipment transportation responsibility	C	ID	3/3	Not Used																				
* FOB06	309	Location Qualifier Description: Code identifying type of location	C	ID	1/2	Not Used																				

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
* FOB07	352	Description Description: A free-form description to clarify the related data elements and their content	O	AN	1/80	Not Used
* FOB08	54	Risk of Loss Qualifier Description: Code specifying where responsibility for risk of loss passes	O	ID	2/2	Not Used
* FOB09	352	Description Description: A free-form description to clarify the related data elements and their content	C	AN	1/80	Not Used

DTM Date/Time Reference

Pos: 100	Max: 5
Heading - Optional	
Loop: BS1	Elements: 7

To specify pertinent dates and times

Syntax:

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

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>				
DTM01	374	Date/Time Qualifier Description: Code specifying type of date or time, or both date and time	M	ID	3/3	Required				
		<table border="1"> <thead> <tr> <th><u>Code</u></th> <th><u>Name</u></th> </tr> </thead> <tbody> <tr> <td>011</td> <td>Shipped</td> </tr> </tbody> </table>	<u>Code</u>	<u>Name</u>	011	Shipped				
<u>Code</u>	<u>Name</u>									
011	Shipped									
DTM02	373	Date Description: Date (YYMMDD)	C	DT	6/6	Used				
* DTM03	337	Time Description: Time expressed in 24-hour clock time as follows: HHMM, or HHMMSS, or HHMMSSD, or HHMMSSDD, where H = hours (00-23), M = minutes (00-59), S = integer seconds (00-59) and DD = decimal seconds; decimal seconds are expressed as follows: D = tenths (0-9) and DD = hundredths (00-99)	C	TM	4/8	Not Used				
* DTM04	623	Time Code Description: Code identifying the time. In accordance with International Standards Organization standard 8601, time can be specified by a + or - and an indication in hours in relation to Universal Time Coordinate (UTC) time; since + is a restricted character, + and - are substituted by P and M in the codes that follow	O	ID	2/2	Not Used				
DTM05	624	Century Description: The first two characters in the designation of the year (CCYY)	O	N0	2/2	Used				
* DTM06	1250	Date Time Period Format Qualifier Description: Code indicating the date format, time format, or date and time format	C	ID	2/3	Not Used				
* DTM07	1251	Date Time Period Description: Expression of a date, a time, or range of dates, times or dates and times	C	AN	1/35	Not Used				

N9 Reference Identification

Pos: 110
Heading - Optional
Elements: 7

To transmit identifying information as specified by the Reference Identification Qualifier

Syntax:

1. N902 R0203 -- At least one of N902 or N903 is required.
2. N906 C0605 -- If N906 is present, then N905 is required

1. N906 reflects the time zone which the time reflects.
2. N907 contains data relating to the value cited in N902.

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>														
N901	128	Reference Identification Qualifier Description: Code Qualifying the Reference Identification	M	ID	2/3	Required														
		<table border="1"> <thead> <tr> <th><u>Code</u></th> <th><u>Name</u></th> </tr> </thead> <tbody> <tr> <td>BM</td> <td>Bill of Lading Number</td> </tr> <tr> <td>CN</td> <td>Carrier's Reference Number (PRO/Invoice)</td> </tr> <tr> <td>E5</td> <td>Claimant's Claim Number</td> </tr> <tr> <td>MA</td> <td>Ship Notice/Manifest Number</td> </tr> <tr> <td>MB</td> <td>Master Bill of Lading</td> </tr> <tr> <td>RZ</td> <td>Returned Goods Authorization Number</td> </tr> </tbody> </table>	<u>Code</u>	<u>Name</u>	BM	Bill of Lading Number	CN	Carrier's Reference Number (PRO/Invoice)	E5	Claimant's Claim Number	MA	Ship Notice/Manifest Number	MB	Master Bill of Lading	RZ	Returned Goods Authorization Number				
<u>Code</u>	<u>Name</u>																			
BM	Bill of Lading Number																			
CN	Carrier's Reference Number (PRO/Invoice)																			
E5	Claimant's Claim Number																			
MA	Ship Notice/Manifest Number																			
MB	Master Bill of Lading																			
RZ	Returned Goods Authorization Number																			
N902	127	Reference Identification Description: Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	C	AN	1/30	Used														
N903	369	Free-form Description Description: Free-form descriptive text	C	AN	1/45	Used														
* N904	373	Date Description: Date (YYMMDD)	O	DT	6/6	Not Used														
* N905	337	Time Description: Time expressed in 24-hour clock time as follows: HHMM, or HHMMSS, or HHMMSSD, or HHMMSSDD, where H = hours (00-23), M = minutes (00-59), S = integer seconds (00-59) and DD = decimal seconds; decimal seconds are expressed as follows: D = tenths (0-9) and DD = hundredths (00-99)	C	TM	4/8	Not Used														
* N906	623	Time Code Description: Code identifying the time. In accordance with International Standards Organization standard 8601, time can be specified by a + or - and an indication in hours in relation to Universal Time Coordinate (UTC) time; since + is a restricted character, + and - are substituted by P and M in the codes that follow	O	ID	2/2	Not Used														

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
* N907	C040	Reference Identifier Description: To identify one or more reference numbers or identification numbers as specified by the Reference Qualifier	O	Comp		Not Used
*	128	Reference Identification Qualifier Description: Code Qualifying the Reference Identification	M	ID	2/3	Not Used
*	127	Reference Identification Description: Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	M	AN	1/30	Not Used
*	128	Reference Identification Qualifier Description: Code Qualifying the Reference Identification	C	ID	2/3	Not Used
*	127	Reference Identification Description: Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	C	AN	1/30	Not Used
*	128	Reference Identification Qualifier Description: Code Qualifying the Reference Identification	C	ID	2/3	Not Used
*	127	Reference Identification Description: Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	C	AN	1/30	Not Used

PER Administrative Communications Contact

Pos: 120	Max: 5
Loop: BS1	

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

Syntax:

1. PER03 P0304 -- If either PER03 or PER04 are present, then the others are required.
2. PER05 P0506 -- If either PER05 or PER06 are present, then the others are required.
3. PER07 P0708 -- If either PER07 or PER08 are present, then the others are required.

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>																
PER01	366	Contact Function Code Description: Code identifying the major duty or responsibility of the person or group named	M	ID	2/2	Required																
		<table border="1"> <thead> <tr> <th><u>Code</u></th> <th><u>Name</u></th> </tr> </thead> <tbody> <tr> <td>BD</td> <td>Buyer Name or Department</td> </tr> <tr> <td>DC</td> <td>Delivery Contact</td> </tr> <tr> <td>SU</td> <td>Supplier Contact</td> </tr> <tr> <td>WH</td> <td>Warehouse</td> </tr> </tbody> </table>	<u>Code</u>	<u>Name</u>	BD	Buyer Name or Department	DC	Delivery Contact	SU	Supplier Contact	WH	Warehouse										
<u>Code</u>	<u>Name</u>																					
BD	Buyer Name or Department																					
DC	Delivery Contact																					
SU	Supplier Contact																					
WH	Warehouse																					
PER02	93	Name Description: Free-form name	O	AN	1/35	Used																
PER03	365	Communication Number Qualifier Description: Code identifying the type of communication number	C	ID	2/2	Used																
		<table border="1"> <thead> <tr> <th><u>Code</u></th> <th><u>Name</u></th> </tr> </thead> <tbody> <tr> <td>BN</td> <td>Beeper Number</td> </tr> <tr> <td>CP</td> <td>Cellular Phone</td> </tr> <tr> <td>EM</td> <td>Electronic Mail</td> </tr> <tr> <td>EX</td> <td>Telephone Extension</td> </tr> <tr> <td>FX</td> <td>Facsimile</td> </tr> <tr> <td>TE</td> <td>Telephone</td> </tr> <tr> <td>TM</td> <td>Telemail</td> </tr> </tbody> </table>	<u>Code</u>	<u>Name</u>	BN	Beeper Number	CP	Cellular Phone	EM	Electronic Mail	EX	Telephone Extension	FX	Facsimile	TE	Telephone	TM	Telemail				
<u>Code</u>	<u>Name</u>																					
BN	Beeper Number																					
CP	Cellular Phone																					
EM	Electronic Mail																					
EX	Telephone Extension																					
FX	Facsimile																					
TE	Telephone																					
TM	Telemail																					
PER04	364	Communication Number Description: Complete communications number including country or area code when applicable	C	AN	1/80	Used																
PER05	365	Communication Number Qualifier Description: Code identifying the type of communication number	C	ID	2/2	Used																
PER06	364	Communication Number Description: Complete communications number including country or area code when applicable	C	AN	1/80	Used																
PER07	365	Communication Number Qualifier Description: Code identifying the type of communication number	C	ID	2/2	Used																
PER08	364	Communication Number	C	AN	1/80	Used																

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Type</u>	<u>Min/Max</u>	
		Description: country or area code when applicable			
*	443	Contact Inquiry Reference Additional reference number or description to clarify a contact number	O AN	1/20	Not Used

CUR Currency

Max: 1
Heading - Optional
Loop: BS1

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

Syntax:

1. ~~CUR08~~ If CUR08 is present, then CUR07 is required
2. ~~CUR09~~ If CUR09 is present, then CUR07 is required
3. ~~CUR10~~ -- If CUR10 is present, then at least one of CUR11 or CUR12 is required.
4. ~~CUR11~~ If CUR11 is present, then CUR10 is required
5. ~~CUR12~~ If CUR12 is present, then CUR10 is required
6. ~~CUR13~~ -- If CUR13 is present, then at least one of CUR14 or CUR15 is required.
7. ~~CUR14~~ If CUR14 is present, then CUR13 is required
8. ~~CUR15~~ If CUR15 is present, then CUR13 is required
9. ~~CUR16~~ -- If CUR16 is present, then at least one of CUR17 or CUR18 is required.
10. ~~CUR17~~ If CUR17 is present, then CUR16 is required
11. ~~CUR18~~ If CUR18 is present, then CUR16 is required
12. ~~CUR19~~ -- If CUR19 is present, then at least one of CUR20 or CUR21 is required.
13. ~~CUR20~~ If CUR20 is present, then CUR19 is required
14. ~~CUR21~~ If CUR21 is present, then CUR19 is required

Comments:

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

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>						
CUR01	98	Entity Identifier Code Description: Code identifying an organizational entity, a physical location, or an individual	M	ID	2/2	Required						
		<table border="1"> <thead> <tr> <th><u>Code</u></th> <th><u>Name</u></th> </tr> </thead> <tbody> <tr> <td>BY</td> <td>Buying Party (Purchaser)</td> </tr> <tr> <td>SE</td> <td>Selling Party</td> </tr> </tbody> </table>	<u>Code</u>	<u>Name</u>	BY	Buying Party (Purchaser)	SE	Selling Party				
<u>Code</u>	<u>Name</u>											
BY	Buying Party (Purchaser)											
SE	Selling Party											
CUR02	100	Currency Code Description: Code (Standard ISO) for country in whose currency the charges are specified	M	ID	3/3	Required						
* CUR03	280	Exchange Rate Description: Value to be used as a multiplier conversion factor to convert monetary value from one currency to another	O	R	4/10	Not Used						
* CUR04	98	Entity Identifier Code Description: Code identifying an organizational entity, a physical location, or an individual	O	ID	2/2	Not Used						
* CUR05	100	Currency Code Description: Code (Standard ISO) for country in whose currency the charges are specified	O	ID	3/3	Not Used						
* CUR06	669	Currency Market/Exchange Code	O	ID	3/3	Not Used						

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
		Description: Code identifying the market upon which the currency exchange rate is based				
* CUR07	374	Date/Time Qualifier	C	ID	3/3	Not Used
		Description: Code specifying type of date or time, or both date and time				
* CUR08	373	Date	O	DT	6/6	Not Used
		Description: Date (YYMMDD)				
* CUR09	337	Time	O	TM	4/8	Not Used
		Description: Time expressed in 24-hour clock time as follows: HHMM, or HHMMSS, or HHMMSSD, or HHMMSSDD, where H = hours (00-23), M = minutes (00-59), S = integer seconds (00-59) and DD = decimal seconds; decimal seconds are expressed as follows: D = tenths (0-9) and DD = hundredths (00-99)				
* CUR10	374	Date/Time Qualifier	C	ID	3/3	Not Used
		Description: Code specifying type of date or time, or both date and time				
* CUR11	373	Date	C	DT	6/6	Not Used
		Description: Date (YYMMDD)				
* CUR12	337	Time	C	TM	4/8	Not Used
		Description: Time expressed in 24-hour clock time as follows: HHMM, or HHMMSS, or HHMMSSD, or HHMMSSDD, where H = hours (00-23), M = minutes (00-59), S = integer seconds (00-59) and DD = decimal seconds; decimal seconds are expressed as follows: D = tenths (0-9) and DD = hundredths (00-99)				
* CUR13	374	Date/Time Qualifier	C	ID	3/3	Not Used
		Description: Code specifying type of date or time, or both date and time				
* CUR14	373	Date	C	DT	6/6	Not Used
		Description: Date (YYMMDD)				
* CUR15	337	Time	C	TM	4/8	Not Used
		Description: Time expressed in 24-hour clock time as follows: HHMM, or HHMMSS, or HHMMSSD, or HHMMSSDD, where H = hours (00-23), M = minutes (00-59), S = integer seconds (00-59) and DD = decimal seconds; decimal seconds are expressed as follows: D = tenths (0-9) and DD = hundredths (00-99)				
* CUR16	374	Date/Time Qualifier	C	ID	3/3	Not Used
		Description: Code specifying type of date or time, or both date and time				
* CUR17	373	Date	C	DT	6/6	Not Used
		Description: Date (YYMMDD)				
* CUR18	337	Time	C	TM	4/8	Not Used
		Description: Time expressed in 24-hour clock time as follows: HHMM, or HHMMSS, or HHMMSSD, or HHMMSSDD, where H = hours (00-23), M = minutes (00-59), S = integer seconds (00-59) and DD = decimal seconds; decimal				

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
		seconds are expressed as follows: D = tenths (0-9) and DD = hundredths (00-99)				
* CUR19	374	Date/Time Qualifier Description: Code specifying type of date or time, or both date and time	C	ID	3/3	Not Used
* CUR20	373	Date Description: Date (YYMMDD)	C	DT	6/6	Not Used
* CUR21	337	Time Description: Time expressed in 24-hour clock time as follows: HHMM, or HHMMSS, or HHMMSSD, or HHMMSSDD, where H = hours (00-23), M = minutes (00-59), S = integer seconds (00-59) and DD = decimal seconds; decimal seconds are expressed as follows: D = tenths (0-9) and DD = hundredths (00-99)	C	TM	4/8	Not Used

N1 Name

Pos: 140	Max: 1
Heading - Optional	
Loop: N1	Elements: 6

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

Syntax:

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

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>												
N101	98	Entity Identifier Code Description: Code identifying an organizational entity, a physical location, or an individual	M	ID	2/2	Required												
		<table border="1"> <thead> <tr> <th><u>Code</u></th> <th><u>Name</u></th> </tr> </thead> <tbody> <tr> <td>BT</td> <td>Bill-to-Party</td> </tr> <tr> <td>SF</td> <td>Ship From</td> </tr> <tr> <td>ST</td> <td>Ship To</td> </tr> <tr> <td>VN</td> <td>Vendor</td> </tr> </tbody> </table>	<u>Code</u>	<u>Name</u>	BT	Bill-to-Party	SF	Ship From	ST	Ship To	VN	Vendor						
<u>Code</u>	<u>Name</u>																	
BT	Bill-to-Party																	
SF	Ship From																	
ST	Ship To																	
VN	Vendor																	
N102	93	Name Description: Free-form name	C	AN	1/35	Used												
N103	66	Identification Code Qualifier Description: Code designating the system/method of code structure used for Identification Code (67)	C	ID	1/2	Used												
		<table border="1"> <thead> <tr> <th><u>Code</u></th> <th><u>Name</u></th> </tr> </thead> <tbody> <tr> <td>1</td> <td>D-U-N-S Number,Dun & Bradstreet</td> </tr> <tr> <td>9</td> <td>D-U-N-S+4,D-U-N-S Number with Four Character Suffix</td> </tr> <tr> <td>12</td> <td>Telephone Number (Phone)</td> </tr> <tr> <td>15</td> <td>Standard Address Number (SAN)</td> </tr> <tr> <td>92</td> <td>Assigned by Buyer or Buyer's Agent</td> </tr> </tbody> </table>	<u>Code</u>	<u>Name</u>	1	D-U-N-S Number,Dun & Bradstreet	9	D-U-N-S+4,D-U-N-S Number with Four Character Suffix	12	Telephone Number (Phone)	15	Standard Address Number (SAN)	92	Assigned by Buyer or Buyer's Agent				
<u>Code</u>	<u>Name</u>																	
1	D-U-N-S Number,Dun & Bradstreet																	
9	D-U-N-S+4,D-U-N-S Number with Four Character Suffix																	
12	Telephone Number (Phone)																	
15	Standard Address Number (SAN)																	
92	Assigned by Buyer or Buyer's Agent																	
N104	67	Identification Code Description: Code identifying a party or other code	C	AN	2/20	Used												
* N105	706	Entity Relationship Code Description: Code describing entity relationship	O	ID	2/2	Not Used												
* N106	98	Entity Identifier Code Description: Code identifying an organizational entity, a physical location, or an individual	O	ID	2/2	Not Used												

N2 Additional Name Information

Pos: 150	Max: 2
Heading - Optional	
Loop: N1	Elements: 2

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

Element Summary:

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

N3 Address Information

Pos: 160	Max: 2
Heading - Optional	
Loop: N1	Elements: 2

To specify the location of the named party

Element Summary:

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

N4 Geographic Location

Pos: 170	Max: 1
Heading - Optional	
Loop: N1	Elements: 6

To specify the geographic place of the named party

Syntax:

1. N406 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.

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
N401	19	City Name Description: Free-form text for city name	O	AN	2/30	Used
N402	156	State or Province Code Description: Code (Standard State/Province) as defined by appropriate government agency	O	ID	2/2	Used
N403	116	Postal Code Description: Code defining international postal zone code excluding punctuation and blanks (zip code for United States)	O	ID	3/15	Used
N404	26	Country Code Description: Code identifying the country	O	ID	2/3	Used
N405	309	Location Qualifier Description: Code identifying type of location	C	ID	1/2	Used
N406	310	Location Identifier Description: Code which identifies a specific location	O	AN	1/30	Used

HL Hierarchical Level - ORDER

Pos: 030	Max: 1
Heading - Mandatory	
Loop: HL - O Elements: 4	

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

Comments:

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

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
HL01	628	Hierarchical ID Number Description: A unique number assigned by the sender to identify a particular data segment in a hierarchical structure	M	AN	1/12	Required
HL02	734	Hierarchical Parent ID Number Description: 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	Hierarchical Level Code Description: Code defining the characteristic of a level in a hierarchical structure	M	ID	1/2	Required
		<u>Code</u> <u>Name</u>				
		O Order				
HL04	736	Hierarchical Child Code Description: Code indicating if there are hierarchical child data segments subordinate to the level being described	O	ID	1/1	Used
		<u>Code</u> <u>Name</u>				
		0 No Subordinate HL Segment in This Hierarchical Structure.				
		1 Additional Subordinate HL Data Segment in This Hierarchical Structure.				

TDS Total Monetary Value Summary

Pos: 180	Max: 1
Heading - Optional	
Loop: BS2	Elements: 4

To specify the total invoice discounts and amounts

Semantics:

1. TDS01 is the total amount of invoice (including charges, less allowances) before terms discount (if discount is applicable).
2. TDS02 indicates the amount upon which the terms discount amount is calculated.
3. TDS03 is the amount of invoice due if paid by terms discount due date (total invoice or installment amount less cash discount).
4. TDS04 indicates the total amount of terms discount.

Comments:

1. TDS02 is required if the dollar value subject to discount is not equal to the dollar value of TDS01.

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>
TDS01	610	Amount Description: Monetary amount	M	N2	1/15	Required
TDS02	610	Amount Description: Monetary amount	O	N2	1/15	Used
TDS03	610	Amount Description: Monetary amount	O	N2	1/15	Used
TDS04	610	Amount Description: Monetary amount	O	N2	1/15	Used

PRF Purchase Order Reference

Pos: 190	Max: 1
Heading - Optional	
Loop: BS2	Elements: 7

To provide reference to a specific purchase order

Semantics:

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

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
PRF01	324	Purchase Order Number Description: Identifying number for Purchase Order assigned by the orderer/purchaser	M	AN	1/22	Required
* PRF02	328	Release Number Description: Number identifying a release against a Purchase Order previously placed by the parties involved in the transaction	O	AN	1/30	Not Used
* PRF03	327	Change Order Sequence Number Description: Number assigned by the orderer identifying a specific change or revision to a previously transmitted transaction set	O	AN	1/8	Not Used
PRF04	373	Date Description: Date (YYMMDD)	O	DT	6/6	Used
* PRF05	350	Assigned Identification Description: Alphanumeric characters assigned for differentiation within a transaction set	O	AN	1/20	Not Used
PRF06	367	Contract Number Description: Contract number	O	AN	1/30	Used
* PRF07	92	Purchase Order Type Code Description: Code specifying the type of Purchase Order	O	ID	2/2	Not Used

N9 Reference Identification

Pos: 200	Max: >1
Heading - Optional	
Loop: BS2	Elements: 7

To transmit identifying information as specified by the Reference Identification Qualifier

Syntax:

1. N902 R0203 -- At least one of N902 or N903 is required.
2. N906 C0605 -- If N906 is present, then N905 is required

Semantics:

1. N906 reflects the time zone which the time reflects.
2. N907 contains data relating to the value cited in N902.

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>																		
N901	128	Reference Identification Qualifier Description: Code Qualifying the Reference Identification	M	ID	2/3	Required																		
		<table border="1"> <thead> <tr> <th><u>Code</u></th> <th><u>Name</u></th> </tr> </thead> <tbody> <tr> <td>BM</td> <td>Bill of Lading Number</td> </tr> <tr> <td>CN</td> <td>Carrier's Reference Number (PRO/Invoice)</td> </tr> <tr> <td>CO</td> <td>Customer Order Number</td> </tr> <tr> <td>IV</td> <td>Seller's Invoice Number</td> </tr> <tr> <td>MA</td> <td>Ship Notice/Manifest Number</td> </tr> <tr> <td>MB</td> <td>Master Bill of Lading</td> </tr> <tr> <td>PO</td> <td>Purchase Order Number</td> </tr> <tr> <td>RZ</td> <td>Returned Goods Authorization Number</td> </tr> </tbody> </table>	<u>Code</u>	<u>Name</u>	BM	Bill of Lading Number	CN	Carrier's Reference Number (PRO/Invoice)	CO	Customer Order Number	IV	Seller's Invoice Number	MA	Ship Notice/Manifest Number	MB	Master Bill of Lading	PO	Purchase Order Number	RZ	Returned Goods Authorization Number				
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N902	127	Reference Identification Description: Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	C	AN	1/30	Used																		
* N903	369	Free-form Description Description: Free-form descriptive text	C	AN	1/45	Not Used																		
N904	373	Date Description: Date (YYMMDD)	O	DT	6/6	Used																		
* N905	337	Time Description: Time expressed in 24-hour clock time as follows: HHMM, or HHMMSS, or HHMMSSD, or HHMMSSDD, where H = hours (00-23), M = minutes (00-59), S = integer seconds (00-59) and DD = decimal seconds; decimal seconds are expressed as follows: D = tenths (0-9) and DD = hundredths (00-99)	C	TM	4/8	Not Used																		
* N906	623	Time Code Description: Code identifying the time. In accordance with International Standards Organization standard 8601, time can be specified by a + or - and an indication in hours in relation to Universal Time Coordinate (UTC) time; since + is a restricted	O	ID	2/2	Not Used																		

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
		character, + and - are substituted by P and M in the codes that follow				
* N907	C040	Reference Identifier Description: To identify one or more reference numbers or identification numbers as specified by the Reference Qualifier	O	Comp		Not Used
*	128	Reference Identification Qualifier Description: Code Qualifying the Reference Identification	M	ID	2/3	Not Used
*	127	Reference Identification Description: Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	M	AN	1/30	Not Used
*	128	Reference Identification Qualifier Description: Code Qualifying the Reference Identification	C	ID	2/3	Not Used
*	127	Reference Identification Description: Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	C	AN	1/30	Not Used
*	128	Reference Identification Qualifier Description: Code Qualifying the Reference Identification	C	ID	2/3	Not Used
*	127	Reference Identification Description: Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	C	AN	1/30	Not Used

DTM Date/Time Reference

Pos: 210	Max: 10
Heading - Optional	
Loop: BS2	Elements: 7

To specify pertinent dates and times

Syntax:

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

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
DTM01	374	Date/Time Qualifier Description: Code specifying type of date or time, or both date and time	M	ID	3/3	Required
		<u>Code</u> <u>Name</u> 011 Shipped				
DTM02	373	Date Description: Date (YYMMDD)	C	DT	6/6	Used
* DTM03	337	Time Description: Time expressed in 24-hour clock time as follows: HHMM, or HHMMSS, or HHMMSSD, or HHMMSSDD, where H = hours (00-23), M = minutes (00-59), S = integer seconds (00-59) and DD = decimal seconds; decimal seconds are expressed as follows: D = tenths (0-9) and DD = hundredths (00-99)	C	TM	4/8	Not Used
* DTM04	623	Time Code Description: Code identifying the time. In accordance with International Standards Organization standard 8601, time can be specified by a + or - and an indication in hours in relation to Universal Time Coordinate (UTC) time; since + is a restricted character, + and - are substituted by P and M in the codes that follow	O	ID	2/2	Not Used
DTM05	624	Century Description: The first two characters in the designation of the year (CCYY)	O	N0	2/2	Used
* DTM06	1250	Date Time Period Format Qualifier Description: Code indicating the date format, time format, or date and time format	C	ID	2/3	Not Used
* DTM07	1251	Date Time Period Description: Expression of a date, a time, or range of dates, times or dates and times	C	AN	1/35	Not Used

TXI Tax Information

Pos: 230	Max: 10
Heading - Optional	
Loop: BS2	

To specify tax information

Syntax:

1. TXI02 R020306 -- At least one of TXI02, TXI03 or TXI06 is required.
2. TXI04 P0405 -- If either TXI04 or TXI05 are present, then the others are required.
3. TXI08 C0803 -- If TXI08 is present, then TXI03 is required

Semantics:

1. TXI07 is a code indicating the relationship of the price or amount to the associated segment.

Comments:

1. TXI02 is the monetary amount of the tax.
2. TXI03 is the tax percent expressed as a decimal.
3. If TXI02 is not used, then the application of the percent (TXI03) is between trading partners.

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>
TXI01	963	Tax Type Code Description: Code specifying the type of tax	M	ID	2/2	Required
		Code Name				
		GS Goods and Services Tax				
		LS State and Local Sales Tax				
		PG State or Provincial Tax on Goods				
		PS State or Provincial Tax on Services				
		TX All Taxes Description: Total of all applicable taxes All taxes applicable - to be used for harmonization of provincial and GST in Canada.				
TXI02	782	Monetary Amount Description: Monetary amount	C	R	1/15	Used
TXI03	954	Percent Description: Percentage expressed as a decimal	C	R	1/10	Used
* TXI04	955	Tax Jurisdiction Code Qualifier Description: Code identifying the source of the data used in tax jurisdiction code	C	ID	2/2	Not Used
* TXI05	956	Tax Jurisdiction Code Description: Code identifying the taxing jurisdiction	C	AN	1/10	Not Used
* TXI06	441	Tax Exempt Code Description: Code identifying exemption status from sales and use tax	C	ID	1/1	Not Used
* TXI07	662	Relationship Code	O	ID	1/1	Not Used

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
		Description: Code indicating the relationship between entities				
* TXI08	828	Dollar Basis For Percent	O	R	1/9	Not Used
		Description: Dollar basis to be used in the percent calculation of the allowance, charge or tax				
* TXI09	325	Tax Identification Number	O	AN	1/20	Not Used
		Description: Number assigned to a purchaser (buyer, orderer) by a taxing jurisdiction (state, county, etc.); often called a tax exemption number or certificate number				
* TXI10	350	Assigned Identification	O	AN	1/20	Not Used
		Description: Alphanumeric characters assigned for differentiation within a transaction set				

SAC Service, Promotion, Allowance, or Charge Information

Pos: 240	Max: 1
Heading - Optional	
Loop: SAC	Elements: 15

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

Syntax:

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

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 a "Dollar Basis Amount". It is represented in the SAC segment in SAC10 using the qualifier "DO" - Dollars in SAC09.

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	Allowance or Charge Indicator	M	ID	1/1	Required
		Description: Code which indicates an allowance or charge for the service specified				
		<u>Code</u>		<u>Name</u>		
		A		Allowance		
		C		Charge		
		N		No Allowance or Charge		
		P		Promotion		
SAC02	1300	Service, Promotion, Allowance, or Charge Code	C	ID	4/4	Used
		Description: Code identifying the service, promotion, allowance, or charge				

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
		<u>Code</u> <u>Name</u>				
		<u>Code</u> <u>Name</u>				
		A990 Cataloging Services				
		B210 Co-op Credit				
		D200 Freight Charges to Destination				
		D220 Freight Passthrough				
		E170 Labeling				
		H850 Tax				
* SAC03	559	Agency Qualifier Code	C	ID	2/2	Not Used
		Description: Code identifying the agency assigning the code values				
* SAC04	1301	Agency Service, Promotion, Allowance, or Charge Code	C	AN	1/10	Not Used
		Description: Agency maintained code identifying the service, promotion, allowance, or charge				
SAC05	610	Amount	O	N2	1/15	Used
		Description: Monetary amount				
* SAC06	378	Allowance/ Charge Percent Qualifier	C	ID	1/1	Not Used
		Description: Code indicating on what basis allowance or charge percent is calculated				
* SAC07	332	Percent	C	R	1/6	Not Used
		Description: Percent expressed as a percent				
SAC08	118	Rate	O	R	1/9	Used
		Description: Rate expressed in the standard monetary denomination for the currency specified				
SAC09	355	Unit or Basis for Measurement Code	C	ID	2/2	Used
		Description: Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken				
		<u>Code</u> <u>Name</u>				
		EA Each				
		Description: For non book items.				
		UN Unit				
SAC10	380	Quantity	C	R	1/15	Used
		Description: Numeric value of quantity				
* SAC11	380	Quantity	O	R	1/15	Not Used
		Description: Numeric value of quantity				
SAC12	331	Allowance or Charge Method of Handling Code	O	ID	2/2	Used
		Description: Code indicating method of handling for an allowance or charge				
		<u>Code</u> <u>Name</u>				
		06 Charge to be Paid by Customer				
		09 Allowance To Be Issued by Vendor				
* SAC13	127	Reference Identification	C	AN	1/30	Not Used
		Description: Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier				
* SAC14	770	Option Number	O	AN	1/20	Not Used

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
		Description: A unique number identifying available promotion or allowance options when more than one is offered				
* SAC15	352	Description	O	AN	1/80	Not Used
		Description: A free-form description to clarify the related data elements and their content				

HL Hierarchical Level - TARE

Pos: 030	Max: 1
Heading - Mandatory	
Loop: HL - T Elements: 4	

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

Comments:

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

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
HL01	628	Hierarchical ID Number Description: A unique number assigned by the sender to identify a particular data segment in a hierarchical structure	M	AN	1/12	Required
HL02	734	Hierarchical Parent ID Number Description: 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	Hierarchical Level Code Description: Code defining the characteristic of a level in a hierarchical structure	M	ID	1/2	Required
		<u>Code</u> <u>Name</u>				
		T Shipping Tare				
HL04	736	Hierarchical Child Code Description: Code indicating if there are hierarchical child data segments subordinate to the level being described	O	ID	1/1	Used
		<u>Code</u> <u>Name</u>				
		0 No Subordinate HL Segment in This Hierarchical Structure.				
		1 Additional Subordinate HL Data Segment in This Hierarchical Structure.				

PAL Pallet Information

Pos: 300	Max: 1
Heading - Optional	
Loop: BS3	Elements: 15

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

Syntax:

1. PAL05 P0506 -- If either PAL05 or PAL06 are present, then the others are required.
2. PAL07 C0710 -- If PAL07 is present, then PAL10 is required
3. PAL08 C0810 -- If PAL08 is present, then PAL10 is required
4. PAL09 C0910 -- If PAL09 is present, then PAL10 is required
5. PAL10 L10070809 -- If PAL10 is present, then at least one of PAL07, PAL08 or PAL09 is required.
6. PAL11 P1112 -- If either PAL11 or PAL12 are present, then the others are required.
7. PAL13 P1314 -- If either PAL13 or PAL14 are present, then the others are 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.

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
PAL01	883	Pallet Type Code Description: Code indicating the type of pallet	O	ID	1/2	Used
		<u>Code</u> <u>Name</u>				
		4 Standard				
		6 Wood				
* PAL02	884	Pallet Tiers Description: The number of layers per pallet	O	N0	1/3	Not Used
* PAL03	885	Pallet Blocks Description: The number of pieces (cartons) per layer on the pallet	O	N0	1/3	Not Used
* PAL04	356	Pack Description: Number of inner pack units per outer pack unit	O	N0	1/6	Not Used
* PAL05	395	Unit Weight Description: Numeric value of weight per unit	C	R	1/8	Not Used
* PAL06	355	Unit or Basis for Measurement Code Description: Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken	C	ID	2/2	Not Used
* PAL07	82	Length Description: Largest horizontal dimension of an object measured when the object is in the upright position	C	R	1/8	Not Used

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
* PAL08	189	Width Description: Shorter measurement of the two horizontal dimensions measured with the object in the upright position		R		Not Used
* PAL09	65	Height Description: Vertical dimension of an object measured	C		1/8	
* PAL10		Unit or Basis for Measurement Code Description: Code specifying the units in which a been taken	C		2/2	
*	384	Gross Weight per Pack Numeric value of gross weight per pack		R	1/9	Not Used
*	355	Unit or Basis for Measurement Code Description: value is being expressed, or manner in which a measurement has been taken		ID		Not Used
PAL13	385	Description: Numeric value of gross volume per pack		C	1/9	
PAL14	355	Description: Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken		C ID	2/2	Not Used
* PAL15	399	Pallet Exchange Code Description: instructions		ID		Not Used

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
* MAN05	87	Marks and Numbers Description: Marks and numbers used to identify a shipment or parts of a shipment	C	AN	1/48	Not Used
* MAN06	87	Marks and Numbers Description: Marks and numbers used to identify a shipment or parts of a shipment	O	AN	1/48	Not Used

HL Hierarchical Level - PACK

Max: 1
Heading - Mandatory
Loop: HL - P

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

Comments:

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

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>						
HL01	628	Hierarchical ID Number Description: A unique number assigned by the sender to identify a particular data segment in a hierarchical structure	M	AN	1/12	Required						
HL02	734	Hierarchical Parent ID Number Description: 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	Hierarchical Level Code Description: Code defining the characteristic of a level in a hierarchical structure	M	ID	1/2	Required						
		<table border="0" style="width: 100%;"> <tr> <td style="text-align: center;"><u>Code</u></td> <td style="text-align: center;"><u>Name</u></td> </tr> <tr> <td style="text-align: center;">P</td> <td>Pack</td> </tr> </table>	<u>Code</u>	<u>Name</u>	P	Pack						
<u>Code</u>	<u>Name</u>											
P	Pack											
HL04	736	Hierarchical Child Code Description: Code indicating if there are hierarchical child data segments subordinate to the level being described	O	ID	1/1	Used						
		<table border="0" style="width: 100%;"> <tr> <td style="text-align: center;"><u>Code</u></td> <td style="text-align: center;"><u>Name</u></td> </tr> <tr> <td style="text-align: center;">0</td> <td>No Subordinate HL Segment in This Hierarchical Structure.</td> </tr> <tr> <td style="text-align: center;">1</td> <td>Additional Subordinate HL Data Segment in This Hierarchical Structure.</td> </tr> </table>	<u>Code</u>	<u>Name</u>	0	No Subordinate HL Segment in This Hierarchical Structure.	1	Additional Subordinate HL Data Segment in This Hierarchical Structure.				
<u>Code</u>	<u>Name</u>											
0	No Subordinate HL Segment in This Hierarchical Structure.											
1	Additional Subordinate HL Data Segment in This Hierarchical Structure.											

LX Assigned Number

Max: 1
Heading - Optional
Loop: BS4

To reference a line number in a transaction set

Element Summary:

	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Min/Max</u>	<u>Usage</u>
LX01	554	Assigned Number	M	1/6	Required
		Description: Number assigned for differentiation			

N9 Reference Identification

Max: 15
Heading - Optional
Loop: BS4

To transmit identifying information as specified by the Reference Identification Qualifier

Syntax:

1. N902 R0203 -- At least one of N902 or N903 is required.
2. N906 C0605 -- If N906 is present, then N905 is required

Semantics:

1. N906 reflects the time zone which the time reflects.
2. N907 contains data relating to the value cited in N902.

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>										
N901	128	Reference Identification Qualifier Description: Code Qualifying the Reference Identification	M	ID	2/3	Required										
		<table border="1"> <thead> <tr> <th><u>Code</u></th> <th><u>Name</u></th> </tr> </thead> <tbody> <tr> <td>CO</td> <td>Customer Order Number</td> </tr> <tr> <td>E5</td> <td>Claimant's Claim Number</td> </tr> <tr> <td>IV</td> <td>Seller's Invoice Number</td> </tr> <tr> <td>PO</td> <td>Purchase Order Number</td> </tr> </tbody> </table>	<u>Code</u>	<u>Name</u>	CO	Customer Order Number	E5	Claimant's Claim Number	IV	Seller's Invoice Number	PO	Purchase Order Number				
<u>Code</u>	<u>Name</u>															
CO	Customer Order Number															
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N902	127	Reference Identification Description: Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	C	AN	1/30	Used										
N903	369	Free-form Description Description: Free-form descriptive text	C	AN	1/45	Used										
* N904	373	Date Description: Date (YYMMDD)	O	DT	6/6	Not Used										
* N905	337	Time Description: Time expressed in 24-hour clock time as follows: HHMM, or HHMMSS, or HHMMSSD, or HHMMSSDD, where H = hours (00-23), M = minutes (00-59), S = integer seconds (00-59) and DD = decimal seconds; decimal seconds are expressed as follows: D = tenths (0-9) and DD = hundredths (00-99)	C	TM	4/8	Not Used										
* N906	623	Time Code Description: Code identifying the time. In accordance with International Standards Organization standard 8601, time can be specified by a + or - and an indication in hours in relation to Universal Time Coordinate (UTC) time; since + is a restricted character, + and - are substituted by P and M in the codes that follow	O	ID	2/2	Not Used										
* N907	C040	Reference Identifier	O	Comp		Not Used										

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
		Description: To identify one or more reference numbers or identification numbers as specified by the Reference Qualifier				
*	128	Reference Identification Qualifier	M	ID	2/3	Not Used
		Description: Code Qualifying the Reference Identification				
*	127	Reference Identification	M	AN	1/30	Not Used
		Description: Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier				
*	128	Reference Identification Qualifier	C	ID	2/3	Not Used
		Description: Code Qualifying the Reference Identification				
*	127	Reference Identification	C	AN	1/30	Not Used
		Description: Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier				
*	128	Reference Identification Qualifier	C	ID	2/3	Not Used
		Description: Code Qualifying the Reference Identification				
*	127	Reference Identification	C	AN	1/30	Not Used
		Description: Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier				

PO4 Item Physical Details

Pos: 330	Max: 1
Heading - Optional	
Loop: BS4	Elements: 18

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

Syntax:

1. PO402 P0203 -- If either PO402 or PO403 are present, then the others are required.
2. PO405 C0506 -- If PO405 is present, then PO406 is required
3. PO406 P0607 -- If either PO406 or PO407 are present, then the others are required.
4. PO408 P0809 -- If either PO408 or PO409 are present, then the others are required.
5. PO410 C1013 -- If PO410 is present, then PO413 is required
6. PO411 C1113 -- If PO411 is present, then PO413 is required
7. PO412 C1213 -- If PO412 is present, then PO413 is required
8. PO413 L13101112 -- If PO413 is present, then at least one of PO410, PO411 or PO412 is required.
9. PO417 C1716 -- If PO417 is present, then PO416 is required
10. PO418 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 of 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.

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
PO401	356	Pack Description: Number of inner pack units per outer pack unit	O	N0	1/6	Used
* PO402	357	Size Description: Size of supplier units in pack	C	R	1/8	Not Used
PO403	355	Unit or Basis for Measurement Code Description: Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken	C	ID	2/2	Used
		<u>Code</u>		<u>Name</u>		
		CT		Carton		
		EA		Each		
		ST		Set		
		UN		Unit		

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>														
PO404	103	Packaging Code Description: Code identifying the type of packaging; Part 1: Packaging Form, Part 2: Packaging Material	C	AN	3/5	Used														
		<table border="1"> <thead> <tr> <th><u>Code</u></th> <th><u>Name</u></th> </tr> </thead> <tbody> <tr> <td>CTN</td> <td>Carton</td> </tr> <tr> <td>ENV</td> <td>Envelope</td> </tr> <tr> <td>PLT</td> <td>Pallet</td> </tr> <tr> <td>25</td> <td>Corrugated or Solid</td> </tr> <tr> <td>71</td> <td>Not Otherwise Specified</td> </tr> <tr> <td>94</td> <td>Wood</td> </tr> </tbody> </table>	<u>Code</u>	<u>Name</u>	CTN	Carton	ENV	Envelope	PLT	Pallet	25	Corrugated or Solid	71	Not Otherwise Specified	94	Wood				
<u>Code</u>	<u>Name</u>																			
CTN	Carton																			
ENV	Envelope																			
PLT	Pallet																			
25	Corrugated or Solid																			
71	Not Otherwise Specified																			
94	Wood																			
PO405	187	Weight Qualifier Description: Code defining the type of weight	O	ID	1/2	Used														
		<table border="1"> <thead> <tr> <th><u>Code</u></th> <th><u>Name</u></th> </tr> </thead> <tbody> <tr> <td>G</td> <td>Gross Weight</td> </tr> </tbody> </table>	<u>Code</u>	<u>Name</u>	G	Gross Weight														
<u>Code</u>	<u>Name</u>																			
G	Gross Weight																			
PO406	384	Gross Weight per Pack Description: Numeric value of gross weight per pack	C	R	1/9	Used														
PO407	355	Unit or Basis for Measurement Code Description: Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken	C	ID	2/2	Used														
		<table border="1"> <thead> <tr> <th><u>Code</u></th> <th><u>Name</u></th> </tr> </thead> <tbody> <tr> <td>KG</td> <td>Kilogram</td> </tr> <tr> <td>LB</td> <td>Pound</td> </tr> </tbody> </table>	<u>Code</u>	<u>Name</u>	KG	Kilogram	LB	Pound												
<u>Code</u>	<u>Name</u>																			
KG	Kilogram																			
LB	Pound																			
* PO408	385	Gross Volume per Pack Description: Numeric value of gross volume per pack	C	R	1/9	Not Used														
* PO409	355	Unit or Basis for Measurement Code Description: Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken	C	ID	2/2	Not Used														
PO410	82	Length Description: Largest horizontal dimension of an object measured when the object is in the upright position	C	R	1/8	Used														
PO411	189	Width Description: Shorter measurement of the two horizontal dimensions measured with the object in the upright position	C	R	1/8	Used														
PO412	65	Height Description: Vertical dimension of an object measured when the object is in the upright position	C	R	1/8	Used														
PO413	355	Unit or Basis for Measurement Code Description: Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken	C	ID	2/2	Used														
		<table border="1"> <thead> <tr> <th><u>Code</u></th> <th><u>Name</u></th> </tr> </thead> <tbody> <tr> <td>CM</td> <td>Centimeter</td> </tr> <tr> <td>IN</td> <td>Inch</td> </tr> </tbody> </table>	<u>Code</u>	<u>Name</u>	CM	Centimeter	IN	Inch												
<u>Code</u>	<u>Name</u>																			
CM	Centimeter																			
IN	Inch																			
* PO414	810	Inner Pack Description: Number of units in each selling pack	O	N0	1/6	Not Used														

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
* PO415	752	Surface/Layer/Position Code Description: Code indicating the product surface, layer or position that is being described	O	ID	2/2	Not Used
* PO416	350	Assigned Identification Description: Alphanumeric characters assigned for differentiation within a transaction set	C	AN	1/20	Not Used
* PO417	350	Assigned Identification Description: Alphanumeric characters assigned for differentiation within a transaction set	O	AN	1/20	Not Used
* PO418	1470	Number Description: A generic number	O	N0	1/9	Not Used

PKG Marking, Packaging, Loading

Pos: 350	Max: 10
Loop: BS4	

To describe marking, packaging, loading, and unloading requirements

Syntax:

R040506 -- At least one of PKG04, PKG05 or PKG06 is required.

2. PKG04
3. PKG05 C0501 -- If PKG05 is present, then PKG01 is required

Semantics:

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

1. Use the MEA (Measurements) Segment to define dimensions, tolerances, weights, counts, physical restrictions, etc. 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.
Use PKG03 to indicate the organization that publishes the code list being referred to.
- 4.

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
PKG01	349	Item Description Type Description: Code indicating the format of a description	C	ID	1/1	Used
		<u>Code</u> <u>Name</u> S Structured (From Industry Code List)				
PKG02	753	Packaging Characteristic Code Description: Code specifying the marking, packaging, loading and related characteristics being described	O	ID	1/5	Used
PKG03	559	Agency Qualifier Code Description: Code identifying the agency assigning the code values	C	ID	2/2	Used
		<u>Code</u> <u>Name</u> BI Book Industry Systems Advisory Committee				
PKG04	754	Packaging Description Code Description: A code from an industry code list which provides specific data about the marking, packaging or loading and unloading of a product	C	AN	1/7	Used
		<u>Code</u> <u>Name</u> 01 Good 02 Damaged 03 Recouped 04 New Material 05 Suitable for reuse without reconditioning 06 Suitable for reuse after reconditioning				

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>								
		<table border="1"> <thead> <tr> <th><u>Code</u></th> <th><u>Name</u></th> </tr> </thead> <tbody> <tr> <td>07</td> <td>No longer Useful for original purpose, but, still of some use</td> </tr> <tr> <td>08</td> <td>Junk Material</td> </tr> <tr> <td>ZZ</td> <td>Mutually Defined</td> </tr> </tbody> </table>	<u>Code</u>	<u>Name</u>	07	No longer Useful for original purpose, but, still of some use	08	Junk Material	ZZ	Mutually Defined				
<u>Code</u>	<u>Name</u>													
07	No longer Useful for original purpose, but, still of some use													
08	Junk Material													
ZZ	Mutually Defined													
PKG05	352	Description Description: A free-form description to clarify the related data elements and their content	C	AN	1/80	Used								
* PKG06	400	Unit Load Option Code Description: Code identifying loading or unloading a shipment	C	ID	2/2	Not Used								

MAN Marks and Numbers

Pos: 360	Max: 10
Heading - Optional	
Loop: BS4	Elements: 6

To indicate identifying marks and numbers for shipping containers

Syntax:

1. MAN04 P0405 -- If either MAN04 or MAN05 are present, then the others are required.
2. MAN06 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.

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>												
MAN01	88	Marks and Numbers Qualifier	M	ID	1/2	Required												
		Description: Code specifying the application or source of Marks and Numbers (87)																
		<table border="1"> <thead> <tr> <th><u>Code</u></th> <th><u>Name</u></th> </tr> </thead> <tbody> <tr> <td>GM</td> <td>UCC/EAN-128 Serial Shipping Container Code Format</td> </tr> <tr> <td>MC</td> <td>Master Carton Number</td> </tr> <tr> <td>SM</td> <td>Shipper Assigned</td> </tr> <tr> <td>SS</td> <td>Shipper Assigned Skid Number</td> </tr> <tr> <td>UC</td> <td>U.P.C. Shipping Container Code</td> </tr> </tbody> </table>	<u>Code</u>	<u>Name</u>	GM	UCC/EAN-128 Serial Shipping Container Code Format	MC	Master Carton Number	SM	Shipper Assigned	SS	Shipper Assigned Skid Number	UC	U.P.C. Shipping Container Code				
<u>Code</u>	<u>Name</u>																	
GM	UCC/EAN-128 Serial Shipping Container Code Format																	
MC	Master Carton Number																	
SM	Shipper Assigned																	
SS	Shipper Assigned Skid Number																	
UC	U.P.C. Shipping Container Code																	
MAN02	87	Marks and Numbers	M	AN	1/48	Required												
		Description: Marks and numbers used to identify a shipment or parts of a shipment																
* MAN03	87	Marks and Numbers	O	AN	1/48	Not Used												
		Description: Marks and numbers used to identify a shipment or parts of a shipment																
* MAN04	88	Marks and Numbers Qualifier	C	ID	1/2	Not Used												
		Description: Code specifying the application or source of Marks and Numbers (87)																

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
* MAN05	87	Marks and Numbers Description: Marks and numbers used to identify a shipment or parts of a shipment	C	AN	1/48	Not Used
MAN06	87	Description: Marks and numbers used to identify a shipment or parts of a shipment	O	AN	1/48	Not Used

HL Hierarchical Level - ITEM

Pos: 030	Max: 1
Heading - Mandatory	
Loop: HL - I	Elements: 4

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

Comments:

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

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Type</u>	<u>Min/Max</u>								
HL01	628	Hierarchical ID Number Description: A unique number assigned by the sender to identify a particular data segment in a hierarchical structure	M	AN	1/12	Required						
HL02	734	Hierarchical Parent ID Number Description: 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	Hierarchical Level Code Description: Code defining the characteristic of a level in a hierarchical structure	M	ID	1/2	Required						
		<table border="1"> <thead> <tr> <th><u>Code</u></th> <th><u>Name</u></th> </tr> </thead> <tbody> <tr> <td>I</td> <td>Item</td> </tr> </tbody> </table>	<u>Code</u>	<u>Name</u>	I	Item						
<u>Code</u>	<u>Name</u>											
I	Item											
HL04	736	Hierarchical Child Code Description: Code indicating if there are hierarchical child data segments subordinate to the level being described	O	ID	1/1	Used						
		<table border="1"> <thead> <tr> <th><u>Code</u></th> <th><u>Name</u></th> </tr> </thead> <tbody> <tr> <td>0</td> <td>No Subordinate HL Segment in This Hierarchical Structure.</td> </tr> <tr> <td>1</td> <td>Additional Subordinate HL Data Segment in This Hierarchical Structure.</td> </tr> </tbody> </table>	<u>Code</u>	<u>Name</u>	0	No Subordinate HL Segment in This Hierarchical Structure.	1	Additional Subordinate HL Data Segment in This Hierarchical Structure.				
<u>Code</u>	<u>Name</u>											
0	No Subordinate HL Segment in This Hierarchical Structure.											
1	Additional Subordinate HL Data Segment in This Hierarchical Structure.											

IT1 Baseline Item Data (Invoice)

Pos: 370	Max: 1
Heading - Optional	
Loop: BS5	Elements: 25

To specify the basic and most frequently used line item data for the invoice and related transactions

Syntax:

- IT102 P020304 -- If either IT102, IT103 or IT104 are present, then the others are required.
- IT106 P0607 -- If either IT106 or IT107 are present, then the others are required.
- IT108 P0809 -- If either IT108 or IT109 are present, then the others are required.
- IT110 P1011 -- If either IT110 or IT111 are present, then the others are required.
- IT112 P1213 -- If either IT112 or IT113 are present, then the others are required.
- IT114 P1415 -- If either IT114 or IT115 are present, then the others are required.
- IT116 P1617 -- If either IT116 or IT117 are present, then the others are required.
- IT118 P1819 -- If either IT118 or IT119 are present, then the others are required.
- IT120 P2021 -- If either IT120 or IT121 are present, then the others are required.
- IT122 P2223 -- If either IT122 or IT123 are present, then the others are required.
- IT124 P2425 -- If either IT124 or IT125 are present, then the others are required.

Semantics:

- IT101 is the purchase order line item identification.

Comments:

- Element 235/234 combinations should be interpreted to include products and/or services. See the Data Dictionary for a complete list of IDs.
- IT106 through IT125 provide for ten different product/service IDs for each item. For example: Case, Color, Drawing No., UPC No., ISBN No., Model No., or SKU.

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>
IT101	350	Assigned Identification Description: Alphanumeric characters assigned for differentiation within a transaction set	O	AN	1/20	Used
IT102	358	Quantity Invoiced Description: Number of units invoiced (supplier units)	C	R	1/10	Used
IT103	355	Unit or Basis for Measurement Code Description: Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken	C	ID	2/2	Used
		<u>Code</u> <u>Name</u> UN Unit				
IT104	212	Unit Price Description: Price per unit of product, service, commodity, etc.	C	R	1/17	Used
IT105	639	Basis of Unit Price Code Description: Code identifying the type of unit price for an item	O	ID	2/2	Used

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
		<u>Code</u> <u>Name</u>				
		<u>Code</u> <u>Name</u>				
		PE Price per Each				
IT106	235	Product/Service ID Qualifier	C	ID	2/2	Used
		Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234)				
		<u>Code</u> <u>Name</u>				
		B5 Title Code				
		IB International Standard Book Number (ISBN)				
		VN Vendor's (Seller's) Item Number				
IT107	234	Product/Service ID	C	AN	1/40	Used
		Description: Identifying number for a product or service				
IT108	235	Product/Service ID Qualifier	C	ID	2/2	Used
		Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234)				
IT109	234	Product/Service ID	C	AN	1/40	Used
		Description: Identifying number for a product or service				
* IT110	235	Product/Service ID Qualifier	C	ID	2/2	Not Used
		Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234)				
* IT111	234	Product/Service ID	C	AN	1/40	Not Used
		Description: Identifying number for a product or service				
* IT112	235	Product/Service ID Qualifier	C	ID	2/2	Not Used
		Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234)				
* IT113	234	Product/Service ID	C	AN	1/40	Not Used
		Description: Identifying number for a product or service				
* IT114	235	Product/Service ID Qualifier	C	ID	2/2	Not Used
		Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234)				
* IT115	234	Product/Service ID	C	AN	1/40	Not Used
		Description: Identifying number for a product or service				
* IT116	235	Product/Service ID Qualifier	C	ID	2/2	Not Used
		Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234)				
* IT117	234	Product/Service ID	C	AN	1/40	Not Used
		Description: Identifying number for a product or service				
* IT118	235	Product/Service ID Qualifier	C	ID	2/2	Not Used
		Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234)				
* IT119	234	Product/Service ID	C	AN	1/40	Not Used

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
		Description: Identifying number for a product or service				
* IT120	235	Product/Service ID Qualifier	C	ID	2/2	Not Used
		Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234)				
* IT121	234	Product/Service ID	C	AN	1/40	Not Used
		Description: Identifying number for a product or service				
* IT122	235	Product/Service ID Qualifier	C	ID	2/2	Not Used
		Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234)				
* IT123	234	Product/Service ID	C	AN	1/40	Not Used
		Description: Identifying number for a product or service				
* IT124	235	Product/Service ID Qualifier	C	ID	2/2	Not Used
		Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234)				
* IT125	234	Product/Service ID	C	AN	1/40	Not Used
		Description: Identifying number for a product or service				

PO4 Item Physical Details

Pos: 390	Max: 1
Heading - Optional	
Loop: BS5	Elements: 18

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

Syntax:

1. PO402 P0203 -- If either PO402 or PO403 are present, then the others are required.
2. PO405 C0506 -- If PO405 is present, then PO406 is required
3. PO406 P0607 -- If either PO406 or PO407 are present, then the others are required.
4. PO408 P0809 -- If either PO408 or PO409 are present, then the others are required.
5. PO410 C1013 -- If PO410 is present, then PO413 is required
6. PO411 C1113 -- If PO411 is present, then PO413 is required
7. PO412 C1213 -- If PO412 is present, then PO413 is required
8. PO413 L13101112 -- If PO413 is present, then at least one of PO410, PO411 or PO412 is required.
9. PO417 C1716 -- If PO417 is present, then PO416 is required
10. PO418 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 of 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.

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
* PO401	356	Pack Description: Number of inner pack units per outer pack unit	O	N0	1/6	Not Used
* PO402	357	Size Description: Size of supplier units in pack	C	R	1/8	Not Used
* PO403	355	Unit or Basis for Measurement Code Description: Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken	C	ID	2/2	Not Used
* PO404	103	Packaging Code Description: Code identifying the type of packaging; Part 1: Packaging Form, Part 2: Packaging Material	C	AN	3/5	Not Used
* PO405	187	Weight Qualifier	O	ID	1/2	Not Used

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
		Description: Code defining the type of weight				
* PO406	384	Gross Weight per Pack	C	R	1/9	Not Used
		Description: Numeric value of gross weight per pack				
* PO407	355	Unit or Basis for Measurement Code	C	ID	2/2	Not Used
		Description: Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken				
* PO408	385	Gross Volume per Pack	C	R	1/9	Not Used
		Description: Numeric value of gross volume per pack				
* PO409	355	Unit or Basis for Measurement Code	C	ID	2/2	Not Used
		Description: Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken				
PO410	82	Length	C	R	1/8	Used
		Description: Largest horizontal dimension of an object measured when the object is in the upright position				
PO411	189	Width	C	R	1/8	Used
		Description: Shorter measurement of the two horizontal dimensions measured with the object in the upright position				
PO412	65	Height	C	R	1/8	Used
		Description: Vertical dimension of an object measured when the object is in the upright position				
* PO413	355	Unit or Basis for Measurement Code	C	ID	2/2	Not Used
		Description: Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken				
* PO414	810	Inner Pack	O	N0	1/6	Not Used
		Description: Number of units in each selling pack				
* PO415	752	Surface/Layer/Position Code	O	ID	2/2	Not Used
		Description: Code indicating the product surface, layer or position that is being described				
* PO416	350	Assigned Identification	C	AN	1/20	Not Used
		Description: Alphanumeric characters assigned for differentiation within a transaction set				
* PO417	350	Assigned Identification	O	AN	1/20	Not Used
		Description: Alphanumeric characters assigned for differentiation within a transaction set				
* PO418	1470	Number	O	N0	1/9	Not Used
		Description: A generic number				

TXI Tax Information

Pos: 410	Max: 10
Heading - Optional	
Loop: BS5	Elements: 10

To specify tax information

Syntax:

1. TXI02 R020306 -- At least one of TXI02, TXI03 or TXI06 is required.
2. TXI04 P0405 -- If either TXI04 or TXI05 are present, then the others are required.
3. TXI08 C0803 -- If TXI08 is present, then TXI03 is required

Semantics:

1. TXI07 is a code indicating the relationship of the price or amount to the associated segment.

Comments:

1. TXI02 is the monetary amount of the tax.
2. TXI03 is the tax percent expressed as a decimal.
3. If TXI02 is not used, then the application of the percent (TXI03) is between trading partners.

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>												
TXI01	963	Tax Type Code Description: Code specifying the type of tax	M	ID	2/2	Required												
		<table border="1"> <thead> <tr> <th><u>Code</u></th> <th><u>Name</u></th> </tr> </thead> <tbody> <tr> <td>GS</td> <td>Goods and Services Tax</td> </tr> <tr> <td>LS</td> <td>State and Local Sales Tax</td> </tr> <tr> <td>PG</td> <td>State or Provincial Tax on Goods</td> </tr> <tr> <td>PS</td> <td>State or Provincial Tax on Services</td> </tr> <tr> <td>TX</td> <td>All Taxes</td> </tr> </tbody> </table> Description: Total of all applicable taxes All taxes applicable - to be used for harmonization of provincial and GST in Canada.	<u>Code</u>	<u>Name</u>	GS	Goods and Services Tax	LS	State and Local Sales Tax	PG	State or Provincial Tax on Goods	PS	State or Provincial Tax on Services	TX	All Taxes				
<u>Code</u>	<u>Name</u>																	
GS	Goods and Services Tax																	
LS	State and Local Sales Tax																	
PG	State or Provincial Tax on Goods																	
PS	State or Provincial Tax on Services																	
TX	All Taxes																	
TXI02	782	Monetary Amount Description: Monetary amount	C	R	1/15	Used												
TXI03	954	Percent Description: Percentage expressed as a decimal	C	R	1/10	Used												
* TXI04	955	Tax Jurisdiction Code Qualifier Description: Code identifying the source of the data used in tax jurisdiction code	C	ID	2/2	Not Used												
* TXI05	956	Tax Jurisdiction Code Description: Code identifying the taxing jurisdiction	C	AN	1/10	Not Used												
* TXI06	441	Tax Exempt Code Description: Code identifying exemption status from sales and use tax	C	ID	1/1	Not Used												
* TXI07	662	Relationship Code	O	ID	1/1	Not Used												

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
		Description: Code indicating the relationship between entities				
* TXI08	828	Dollar Basis For Percent	O	R	1/9	Not Used
		Description: Dollar basis to be used in the percent calculation of the allowance, charge or tax				
* TXI09	325	Tax Identification Number	O	AN	1/20	Not Used
		Description: Number assigned to a purchaser (buyer, orderer) by a taxing jurisdiction (state, county, etc.); often called a tax exemption number or certificate number				
* TXI10	350	Assigned Identification	O	AN	1/20	Not Used
		Description: Alphanumeric characters assigned for differentiation within a transaction set				

CTP Pricing Information

Pos: 420	Max: 10
Heading - Optional	
Loop: BS5	Elements: 11

To specify pricing information

Syntax:

1. CTP04 P0405 -- If either CTP04 or CTP05 are present, then the others are required.
2. CTP06 C0607 -- If CTP06 is present, then CTP07 is required
3. CTP09 C0902 -- If CTP09 is present, then CTP02 is required
4. CTP10 C1002 -- If CTP10 is present, then CTP02 is required

Semantics:

1. CTP07 is a multiplier factor to arrive at a final discounted price. A multiplier of .90 would be the factor if a 10% discount is given.
2. CTP08 is the rebate amount.

Comments:

1. See Figures Appendix for an example detailing the use of CTP03 and CTP04.
2. See Figures Appendix for an example detailing the use of CTP03, CTP04 and CTP07.

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>														
* CTP01	687	Class of Trade Code Description: Code indicating class of trade	O	ID	2/2	Not Used														
CTP02	236	Price Identifier Code Description: Code identifying pricing specification	C	ID	3/3	Used														
		<table border="1"> <thead> <tr> <th><u>Code</u></th> <th><u>Name</u></th> </tr> </thead> <tbody> <tr> <td>ALT</td> <td>Alternate Price</td> </tr> <tr> <td>CAT</td> <td>Catalog Price</td> </tr> <tr> <td>CON</td> <td>Contract Price</td> </tr> <tr> <td>NET</td> <td>Net Item Price</td> </tr> <tr> <td>PRP</td> <td>Promotional price</td> </tr> <tr> <td>SLP</td> <td>Suggested List Price</td> </tr> </tbody> </table>	<u>Code</u>	<u>Name</u>	ALT	Alternate Price	CAT	Catalog Price	CON	Contract Price	NET	Net Item Price	PRP	Promotional price	SLP	Suggested List Price				
<u>Code</u>	<u>Name</u>																			
ALT	Alternate Price																			
CAT	Catalog Price																			
CON	Contract Price																			
NET	Net Item Price																			
PRP	Promotional price																			
SLP	Suggested List Price																			
CTP03	212	Unit Price Description: Price per unit of product, service, commodity, etc.	O	R	1/17	Used														
* CTP04	380	Quantity Description: Numeric value of quantity	C	R	1/15	Not Used														
* CTP05	C001	Composite Unit of Measure Description: To identify a composite unit of measure(See Figures Appendix for examples of use)	C	Comp		Not Used														
* CTP10	355	Unit or Basis for Measurement Code Description: Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken	M	ID	2/2	Not Used														

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
*	1018	Exponent Description: Power to which a unit is raised	O	R	1/15	Not Used
*	649	Multiplier Description: Value to be used as a multiplier to obtain a new value	O	R	1/10	Not Used
*	355	Unit or Basis for Measurement Code Description: Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken	O	ID	2/2	Not Used
*	1018	Exponent Description: Power to which a unit is raised	O	R	1/15	Not Used
*	649	Multiplier Description: Value to be used as a multiplier to obtain a new value	O	R	1/10	Not Used
*	355	Unit or Basis for Measurement Code Description: Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken	O	ID	2/2	Not Used
*	1018	Exponent Description: Power to which a unit is raised	O	R	1/15	Not Used
*	649	Multiplier Description: Value to be used as a multiplier to obtain a new value	O	R	1/10	Not Used
*	355	Unit or Basis for Measurement Code Description: Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken	O	ID	2/2	Not Used
*	1018	Exponent Description: Power to which a unit is raised	O	R	1/15	Not Used
*	649	Multiplier Description: Value to be used as a multiplier to obtain a new value	O	R	1/10	Not Used
*	355	Unit or Basis for Measurement Code Description: Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken	O	ID	2/2	Not Used
*	1018	Exponent Description: Power to which a unit is raised	O	R	1/15	Not Used
*	649	Multiplier Description: Value to be used as a multiplier to obtain a new value	O	R	1/10	Not Used
*	CTP06	648 Price Multiplier Qualifier Description: Code indicating the type of price multiplier	O	ID	3/3	Not Used
*	CTP07	649 Multiplier	C	R	1/10	Not Used

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
		Description: Value to be used as a multiplier to obtain a new value				
* CTP08	782	Monetary Amount Description: Monetary amount	O	R	1/15	Not Used
* CTP09	639	Basis of Unit Price Code Description: Code identifying the type of unit price for an item	O	ID	2/2	Not Used
* CTP10	499	Condition Value Description: Identifies rate restrictions or provisions	O	AN	1/10	Not Used
* CTP11	289	Multiple Price Quantity Description: Quantity of units for a given price, e.g., 3 for \$10.00	O	N0	1/2	Not Used

N9 Reference Identification

Pos: 430	Max: 10
Heading - Optional	
Loop: BS5	Elements: 7

To transmit identifying information as specified by the Reference Identification Qualifier

Syntax:

1. N902 R0203 -- At least one of N902 or N903 is required.
2. N906 C0605 -- If N906 is present, then N905 is required

Semantics:

1. N906 reflects the time zone which the time reflects.
2. N907 contains data relating to the value cited in N902.

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>																				
N901	128	Reference Identification Qualifier Description: Code Qualifying the Reference Identification	M	ID	2/3	Required																				
		<table border="1"> <thead> <tr> <th><u>Code</u></th> <th><u>Name</u></th> </tr> </thead> <tbody> <tr> <td>BM</td> <td>Bill of Lading Number</td> </tr> <tr> <td>CN</td> <td>Carrier's Reference Number (PRO/Invoice)</td> </tr> <tr> <td>CO</td> <td>Customer Order Number</td> </tr> <tr> <td>E5</td> <td>Claimant's Claim Number</td> </tr> <tr> <td>IV</td> <td>Seller's Invoice Number</td> </tr> <tr> <td>MA</td> <td>Ship Notice/Manifest Number</td> </tr> <tr> <td>MB</td> <td>Master Bill of Lading</td> </tr> <tr> <td>PO</td> <td>Purchase Order Number</td> </tr> <tr> <td>RZ</td> <td>Returned Goods Authorization Number</td> </tr> </tbody> </table>	<u>Code</u>	<u>Name</u>	BM	Bill of Lading Number	CN	Carrier's Reference Number (PRO/Invoice)	CO	Customer Order Number	E5	Claimant's Claim Number	IV	Seller's Invoice Number	MA	Ship Notice/Manifest Number	MB	Master Bill of Lading	PO	Purchase Order Number	RZ	Returned Goods Authorization Number				
<u>Code</u>	<u>Name</u>																									
BM	Bill of Lading Number																									
CN	Carrier's Reference Number (PRO/Invoice)																									
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MA	Ship Notice/Manifest Number																									
MB	Master Bill of Lading																									
PO	Purchase Order Number																									
RZ	Returned Goods Authorization Number																									
N902	127	Reference Identification Description: Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	C	AN	1/30	Used																				
N903	369	Free-form Description Description: Free-form descriptive text	C	AN	1/45	Used																				
* N904	373	Date Description: Date (YYMMDD)	O	DT	6/6	Not Used																				
* N905	337	Time Description: Time expressed in 24-hour clock time as follows: HHMM, or HHMMSS, or HHMMSSD, or HHMMSSDD, where H = hours (00-23), M = minutes (00-59), S = integer seconds (00-59) and DD = decimal seconds; decimal seconds are expressed as follows: D = tenths (0-9) and DD = hundredths (00-99)	C	TM	4/8	Not Used																				
* N906	623	Time Code Description: Code identifying the time. In accordance with International Standards Organization standard 8601, time can be specified by a + or - and an indication in hours in relation to	O	ID	2/2	Not Used																				

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
		Universal Time Coordinate (UTC) time; since + is a restricted character, + and - are substituted by P and M in the codes that follow				
* N907	C040	Reference Identifier Description: To identify one or more reference numbers or identification numbers as specified by the Reference Qualifier	O	Comp		Not Used
*	128	Reference Identification Qualifier Description: Code Qualifying the Reference Identification	M	ID	2/3	Not Used
*	127	Reference Identification Description: Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	M	AN	1/30	Not Used
*	128	Reference Identification Qualifier Description: Code Qualifying the Reference Identification	C	ID	2/3	Not Used
*	127	Reference Identification Description: Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	C	AN	1/30	Not Used
*	128	Reference Identification Qualifier Description: Code Qualifying the Reference Identification	C	ID	2/3	Not Used
*	127	Reference Identification Description: Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	C	AN	1/30	Not Used

PID Product/Item Description

Pos: 450	Max: 1
Heading - Optional	
Loop: PID	Elements: 9

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

Syntax:

1. PID04 C0403 -- If PID04 is present, then PID03 is required
2. PID04 R0405 -- At least one of PID04 or PID05 is required.
3. PID07 C0703 -- If PID07 is present, then PID03 is required
4. PID08 C0803 -- If PID08 is present, then PID03 is required

Semantics:

1. Use PID03 to indicate the organization that publishes the code list being referred to.
2. PID04 should be used for industry-specific product description codes.
3. PID08 describes the physical characteristics of the product identified in PID04. A "Y" indicates that the specified attribute applies to this item; 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.

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
PID01	349	Item Description Type	M	ID	1/1	Required
		Description: Code indicating the format of a description				
		<u>Code</u> <u>Name</u>				
		S Structured (From Industry Code List)				
PID02	750	Product/Process Characteristic Code	O	ID	2/3	Used
		Description: Code identifying the general class of a product or process characteristic				
		<u>Code</u> <u>Name</u>				
		PFA Physical Form				
		QAS Quality Assurance Status				
PID03	559	Agency Qualifier Code	C	ID	2/2	Used
		Description: Code identifying the agency assigning the code values				
		<u>Code</u> <u>Name</u>				
		BI Book Industry Systems Advisory Committee				
PID04	751	Product Description Code	C	AN	1/12	Used
		Description: A code from an industry code list which provides specific data about a product characteristic				

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
		<u>Code</u>				
		<u>Name</u>				
		<u>Code</u>				
		<u>Name</u>				
		EANN				EAN Is Not On The Book
		EANY				EAN Is On The Book
		EAPN				Price Is Not In EAN
		EAPY				Price Is In EAN
		PRCN				Price Is Not On The Book
		PRCY				Price Is On The Book
* PID05	352	Description	C	AN	1/80	Not Used
		Description:				A free-form description to clarify the related data elements and their content
* PID06	752	Surface/Layer/Position Code	O	ID	2/2	Not Used
		Description:				Code indicating the product surface, layer or position that is being described
* PID07	822	Source Subqualifier	O	AN	1/15	Not Used
		Description:				A reference that indicates the table or text maintained by the Source Qualifier
* PID08	1073	Yes/No Condition or Response Code	O	ID	1/1	Not Used
		Description:				Code indicating a Yes or No condition or response
* PID09	819	Language Code	O	ID	2/3	Not Used
		Description:				Code designating the language used in text, from a standard code list maintained by the International Standards Organization (ISO 639)

SAC Service, Promotion, Allowance, or Charge Information

Pos: 490	Max: 1
Heading - Optional	
Loop: SAC	Elements: 15

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

Syntax:

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

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 a "Dollar Basis Amount". It is represented in the SAC segment in SAC10 using the qualifier "DO" - Dollars in SAC09.

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	Allowance or Charge Indicator	M	ID	1/1	Required
		Description: Code which indicates an allowance or charge for the service specified				
		<u>Code</u>		<u>Name</u>		
		A		Allowance		
		C		Charge		
		N		No Allowance or Charge		
		P		Promotion		
SAC02	1300	Service, Promotion, Allowance, or Charge Code	C	ID	4/4	Used
		Description: Code identifying the service, promotion, allowance, or charge				

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
		<u>Code</u> <u>Name</u>				
		<u>Code</u> <u>Name</u>				
		A990 Cataloging Services				
		B210 Co-op Credit				
		D200 Freight Charges to Destination				
		D220 Freight Passthrough				
		E170 Labeling				
		H850 Tax				
* SAC03	559	Agency Qualifier Code	C	ID	2/2	Not Used
		Description: Code identifying the agency assigning the code values				
* SAC04	1301	Agency Service, Promotion, Allowance, or Charge Code	C	AN	1/10	Not Used
		Description: Agency maintained code identifying the service, promotion, allowance, or charge				
SAC05	610	Amount	O	N2	1/15	Used
		Description: Monetary amount				
* SAC06	378	Allowance/ Charge Percent Qualifier	C	ID	1/1	Not Used
		Description: Code indicating on what basis allowance or charge percent is calculated				
* SAC07	332	Percent	C	R	1/6	Not Used
		Description: Percent expressed as a percent				
SAC08	118	Rate	O	R	1/9	Used
		Description: Rate expressed in the standard monetary denomination for the currency specified				
SAC09	355	Unit or Basis for Measurement Code	C	ID	2/2	Used
		Description: Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken				
		<u>Code</u> <u>Name</u>				
		EA Each				
		UN Unit				
		Description: For non book items.				
SAC10	380	Quantity	C	R	1/15	Used
		Description: Numeric value of quantity				
* SAC11	380	Quantity	O	R	1/15	Not Used
		Description: Numeric value of quantity				
SAC12	331	Allowance or Charge Method of Handling Code	O	ID	2/2	Used
		Description: Code indicating method of handling for an allowance or charge				
		<u>Code</u> <u>Name</u>				
		06 Charge to be Paid by Customer				
		09 Allowance To Be Issued by Vendor				
* SAC13	127	Reference Identification	C	AN	1/30	Not Used
		Description: Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier				
* SAC14	770	Option Number	O	AN	1/20	Not Used

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
		Description: A unique number identifying available promotion or allowance options when more than one is offered				
* SAC15	352	Description	O	AN	1/80	Not Used
		Description: A free-form description to clarify the related data elements and their content				

TXI Tax Information

Pos: 500	Max: 10
Heading - Optional	
Loop: SAC	Elements: 10

To specify tax information

Syntax:

1. TXI02 R020306 -- At least one of TXI02, TXI03 or TXI06 is required.
2. TXI04 P0405 -- If either TXI04 or TXI05 are present, then the others are required.
3. TXI08 C0803 -- If TXI08 is present, then TXI03 is required

Semantics:

1. TXI07 is a code indicating the relationship of the price or amount to the associated segment.

Comments:

1. TXI02 is the monetary amount of the tax.
2. TXI03 is the tax percent expressed as a decimal.
3. If TXI02 is not used, then the application of the percent (TXI03) is between trading partners.

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>
TXI01	963	Tax Type Code Description: Code specifying the type of tax	M	ID	2/2	Required
TXI02	782	Monetary Amount Description: Monetary amount	C	R	1/15	Used
TXI03	954	Percent Description: Percentage expressed as a decimal	C	R	1/10	Used
TXI04	955	Tax Jurisdiction Code Qualifier Description: Code identifying the source of the data used in tax jurisdiction code	C	ID	2/2	Used
TXI05	956	Tax Jurisdiction Code Description: Code identifying the taxing jurisdiction	C	AN	1/10	Used
TXI06	441	Tax Exempt Code Description: Code identifying exemption status from sales and use tax	C	ID	1/1	Used
TXI07	662	Relationship Code Description: Code indicating the relationship between entities	O	ID	1/1	Used
TXI08	828	Dollar Basis For Percent Description: Dollar basis to be used in the percent calculation of the allowance, charge or tax	O	R	1/9	Used
TXI09	325	Tax Identification Number Description: Number assigned to a purchaser (buyer, orderer) by a taxing jurisdiction (state, county, etc.); often called a tax exemption number or certificate number	O	AN	1/20	Used

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
TXI10	350	Assigned Identification Description: Alphanumeric characters assigned for differentiation within a transaction set	O	AN	1/20	Used

SE Transaction Set Trailer

Pos: 510	Max: 1
Heading - Mandatory	
Loop: N/A	Elements: 2

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

Comments:

1. SE is the last segment of each 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>
SE01	96	Number of Included Segments Description: Total number of segments included in a transaction set including ST and SE segments	M	N0	1/10	Required
SE02	329	Transaction Set Control Number Description: 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	Required