

857 Shipment and Billing Notice - Return

Version: X12-4010

Author: BISAC SCEDI committee
Publication: September 2005

Table of Contents

857	Shipment and Billing Notice (Return Document)	1
ST	Transaction Set Header	5
BHT	Beginning of Hierarchical Transaction	6
HL - S	Loop Hierarchical Level - SHIPMENT	8
HL	Hierarchical Level - SHIPMENT	9
BS1	Loop Total Shipment Information	10
G05	Total Shipment Information	11
TD5	Carrier Details (Routing Sequence/Transit Time)	13
FOB	F.O.B. Related Instructions	15
DTM	Date/Time Reference	17
N9	Reference Identification	19
PER	Administrative Communications Contact	21
CUR	Currency	23
N1	Loop Name	26
N1	Name	27
N2	Additional Name Information	29
N3	Address Information	30
N4	Geographic Location	31
HL - O	Loop Hierarchical Level - ORDER	32
HL	Hierarchical Level - ORDER	33
BS2	Loop Total Monetary Value Summary	34
TDS	Total Monetary Value Summary	35
PRF	Purchase Order Reference	36
N9	Reference Identification	37
DTM	Date/Time Reference	39
TXI	Tax Information	41
SAC	Loop Service, Promotion, Allowance, or Charge Information	43
SAC	Service, Promotion, Allowance, or Charge Information	44
HL - T	Loop Hierarchical Level - TARE	47
HL	Hierarchical Level - TARE	48
BS3	Loop Pallet Information	49
PAL	Pallet Information	50
MAN	Marks and Numbers	52
HL - P	Loop Hierarchical Level - PACK	54
HL	Hierarchical Level - PACK	55
N1	Loop Name	56
N1	Name	57
N2	Additional Name Information	59
N3	Address Information	60

N4	Geographic Location	61
BS4	Loop Assigned Number	62
LX	Assigned Number	63
N9	Reference Identification	64
PO4	Item Physical Details	66
PKG	Marking, Packaging, Loading	69
MAN	Marks and Numbers	71
HL - I	Loop Hierarchical Level - ITEM	73
HL	Hierarchical Level - ITEM	74
BS5	Loop Baseline Item Data (Invoice)	75
IT1	Baseline Item Data (Invoice)	76
PO4	Item Physical Details	80
TXI	Tax Information	83
CTP	Pricing Information	85
N9	Reference Identification	88
PID	Loop Product/Item Description	90
PID	Product/Item Description	91
SAC	Loop Service, Promotion, Allowance, or Charge Information	93
SAC	Service, Promotion, Allowance, or Charge Information	94
TXI	Tax Information	97
SE	Transaction Set Trailer	99

857 Shipment and Billing Notice (Return Document)

Functional Group=BS

Purpose: 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.

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	N1/030L	
030	HL	Hierarchical Level - SHIPMENT	M	1		N1/030	Used
LOOP ID - BS1					1	N1/040L	
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	N1/030L	
030	HL	Hierarchical Level - ORDER	M	1		N1/030	Used
LOOP ID - BS2					1	N1/180L	
180	TDS	Total Monetary Value Summary	O	1		N1/180	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>
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					<u>25</u>		
240	SAC	Service, Promotion, Allowance, or Charge Information	O	1			Used
LOOP ID - HL - T					<u>>1</u>	<u>N1/030L</u>	
030	HL	Hierarchical Level - TARE	M	1		N1/030	Used
LOOP ID - BS3					<u>1</u>	<u>N1/300L</u>	
300	PAL	Pallet Information	O	1		N1/300	Used
310	MAN	Marks and Numbers	O	10			Used
LOOP ID - HL - P					<u>>1</u>	<u>N1/030L</u>	
030	HL	Hierarchical Level - PACK	M	1		N1/030	Used
LOOP ID - N1					<u>10</u>		
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 - BS4					<u>1</u>	<u>N1/320L</u>	
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					<u>>1</u>	<u>N1/030L</u>	
030	HL	Hierarchical Level - ITEM	M	1		N1/030	Used
LOOP ID - BS5					<u>1</u>	<u>N1/370L</u>	
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					<u>25</u>		
450	PID	Product/Item Description	O	1			Used
LOOP ID - SAC					<u>25</u>		
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

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.
- 1/030L 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).
- 1/030 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).
- 1/040L 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.
- 1/040 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.
- 1/030L 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).
- 1/030 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).
- 1/180L 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.
- 1/180 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.
- 1/030L 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).
- 1/030 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).
- 1/300L The BS3 loop may only be used at the Tare (pallet) Level.
- 1/300 The BS3 loop may only be used at the Tare (pallet) Level.
- 1/030L 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).
- 1/030 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).
- 1/320L 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.
- 1/320 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.
- 1/030L 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).
- 1/030 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).
- 1/370L 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.
- 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.

ST Transaction Set Header

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

User Option (Usage): Required

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

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
ST01	143	Transaction Set Identifier Code	M	ID	3/3	Required
		Description: Code uniquely identifying a Transaction Set				
		Code Name				
		857 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				

Semantics:

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

BHT Beginning of Hierarchical Transaction

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

User Option (Usage): Required

Purpose: 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

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

<u>Code</u>	<u>Name</u>
RD	Returns Detail

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.

Loop Hierarchical Level - SHIPMENT

Pos: 030 Repeat: >1
 Mandatory
 Loop: HL - Elements: N/A
 S

User Option (Usage): Used

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

Loop Summary:

<u>Pos</u>	<u>Id</u>	<u>Segment Name</u>	<u>Req</u>	<u>Max Use</u>	<u>Repeat</u>	<u>Usage</u>
030	HL	Hierarchical Level - SHIPMENT	M	1		Used
040		Loop BS1	O		1	Used

HL Hierarchical Level - SHIPMENT

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

User Option (Usage): Used

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

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
HL01	628	Hierarchical ID Number 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 <u>Code Name</u> S Shipment	M	ID	1/2	Required
HL04	736	Hierarchical Child Code Description: Code indicating if there are hierarchical child data segments subordinate to the level being described All valid standard codes are used.	O	ID	1/1	Used

Loop Total Shipment Information

Pos: 040	Repeat: 1
Optional	
Loop: BS1	Elements: N/A

User Option (Usage): Used

Purpose: To provide totals relating to the shipment

Loop Summary:

<u>Pos</u>	<u>Id</u>	<u>Segment Name</u>	<u>Req</u>	<u>Max Use</u>	<u>Repeat</u>	<u>Usage</u>
040	G05	Total Shipment Information	O	1		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
140		Loop N1	O		10	Used

G05 Total Shipment Information

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

User Option (Usage): Used

Purpose: To provide totals relating to the shipment

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
G0501	382	Number of Units Shipped	C	R	1/10	Used
		Description: Numeric value of units shipped in manufacturer's shipping units for a line item or transaction set				
G0502	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				
		ST Set				
		UN Unit				
G0503	81	Weight	C	R	1/10	Used
		Description: Numeric value of weight				
G0504	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>				
		KG Kilogram				
		LB Pound				
* G0505	183	Volume	C	R	1/8	Not Used
		Description: Value of volumetric measure				
* G0506	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				
G0507	80	Lading Quantity	C	N0	1/7	Used
		Description: Number of units (pieces) of the lading commodity				
G0508	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>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>				
		CH Container				
		CT Carton				
		PL Pallet/Unit Load				

Syntax Rules:

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

TD5 Carrier Details (Routing Sequence/Transit Time)

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

User Option (Usage): Used

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

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
TD501	133	Routing Sequence Code	O	ID	1/2	Used
		Description: Code describing the relationship of a carrier to a specific shipment movement				
		Code Name				
		B				Origin/Delivery Carrier (Any Mode)
TD502	66	Identification Code Qualifier	C	ID	1/2	Used
		Description: Code designating the system/method of code structure used for Identification Code (67)				
		Code Name				
		2				Standard Carrier Alpha Code (SCAC)
TD503	67	Identification Code	C	AN	2/20	Used
		Description: Code identifying a party or other code				
TD504	91	Transportation Method/Type Code	C	ID	1/2	Used
		Description: Code specifying the method or type of transportation for the shipment				
		Code Name				
		T				Best Way (Shippers Option)
TD505	387	Routing	C	AN	1/35	Used
		Description: Free-form description of the routing or requested routing for shipment, or the originating carrier's identity				
* TD506	368	Shipment/Order Status Code	C	ID	2/2	Not Used
		Description: Code indicating the status of an order or shipment or the disposition of any difference between the quantity ordered and the quantity shipped for a line item or transaction				
* TD507	309	Location Qualifier	O	ID	1/2	Not Used
		Description: Code identifying type of location				
* TD508	310	Location Identifier	C	AN	1/30	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 which identifies a specific location				
* TD509	731	Transit Direction Code	O	ID	2/2	Not Used
		Description: The point of origin and point of direction				
* TD510	732	Transit Time Direction Qualifier	O	ID	2/2	Not Used
		Description: Code specifying the value of time used to measure the transit time				
* TD511	733	Transit Time	C	R	1/4	Not Used
		Description: The numeric amount of transit time				
* TD512	284	Service Level Code	C	ID	2/2	Not Used
		Description: Code indicating the level of transportation service or the billing service offered by the transportation carrier				
* TD513	284	Service Level Code	C	ID	2/2	Not Used
		Description: Code indicating the level of transportation service or the billing service offered by the transportation carrier				
* TD514	284	Service Level Code	O	ID	2/2	Not Used
		Description: Code indicating the level of transportation service or the billing service offered by the transportation carrier				

Syntax Rules:

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

FOB F.O.B. Related Instructions

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

User Option (Usage): Used

Purpose: To specify transportation instructions relating to shipment

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
FOB01	146	Shipment Method of Payment	M	ID	2/2	Required
		Description: Code identifying payment terms for transportation charges				
		Code Name				
		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	C	ID	1/2	Not Used
		Description: Code identifying type of location				
* FOB03	352	Description	O	AN	1/80	Not Used
		Description: A free-form description to clarify the related data elements and their content				
* FOB04	334	Transportation Terms Qualifier Code	O	ID	2/2	Not Used
		Description: Code identifying the source of the transportation terms				
* FOB05	335	Transportation Terms Code	C	ID	3/3	Not Used
		Description: Code identifying the trade terms which apply to the shipment transportation responsibility				
* FOB06	309	Location Qualifier	C	ID	1/2	Not Used
		Description: Code identifying type of location				
* FOB07	352	Description	O	AN	1/80	Not Used
		Description: A free-form description to clarify the related data elements and their content				
* FOB08	54	Risk of Loss Qualifier	O	ID	2/2	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 specifying where responsibility for risk of loss passes				
FOB09	352	Description	C	AN	1/80	Used
		Description: A free-form description to clarify the related data elements and their content				

Syntax Rules:

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

Semantics:

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

DTM Date/Time Reference

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

User Option (Usage): Used

Purpose: To specify pertinent dates and times

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
DTM01	374	Date/Time Qualifier Description: Code specifying type of date or time, or both date and time Code Name 011 Shipped	M	ID	3/3	Required
DTM02	373	Date Description: Date expressed as CCYYMMDD	O	DT	8/8	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	Not 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

Syntax Rules:

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

N9 Reference Identification

Pos: 110	Max: 20
Heading - Optional	
Loop: BS1	Elements: 7

User Option (Usage): Used

Purpose: To transmit identifying information as specified by the Reference Identification Qualifier

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	M	ID	2/3	Required
		Description: Code Qualifying the Reference Identification				
		Code Name				
		BM				Bill of Lading Number
		CN				Carrier's Reference Number (PRO/Invoice)
		E5				Claimant's Claim Number
						Description: <i>Unique number assigned to the claim by the claimant</i>
		MA				Ship Notice/Manifest Number
		MB				Master Bill of Lading
		RZ				Returned Goods Authorization Number
N902	127	Reference Identification	C	AN	1/30	Used
		Description: Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier				
N903	369	Free-form Description	C	AN	1/45	Used
		Description: Free-form descriptive text				
* N904	373	Date	O	DT	6/6	Not Used
		Description: Date (YYMMDD)				
* N905	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)				
* N906	623	Time Code	O	ID	2/2	Not Used
		Description: Code identifying the time. In accordance with International Standards Organization standard 8601, time can be specified by a + or - and an indication in hours in relation to Universal Time Coordinate (UTC) time; since + is a restricted character, + and - are substituted by P and M in the codes that follow				

<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

Syntax Rules:

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

Semantics:

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

PER Administrative Communications Contact

Pos: 120	Max: 5
Heading - Optional	
Loop: BS1	Elements: 9

User Option (Usage): Used

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

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
PER01	366	Contact Function Code	M	ID	2/2	Required
		Description: Code identifying the major duty or responsibility of the person or group named				
		Code Name				
		BD		Buyer Name or Department		
		DC		Delivery Contact		
		SU		Supplier Contact		
		WH		Warehouse		
PER02	93	Name	O	AN	1/35	Used
		Description: Free-form name				
PER03	365	Communication Number Qualifier	C	ID	2/2	Used
		Description: Code identifying the type of communication number				
		Code Name				
		BN		Beeper Number		
		CP		Cellular Phone		
		EM		Electronic Mail		
		EX		Telephone Extension		
		FX		Facsimile		
		TE		Telephone		
		TM		Telemail		
PER04	364	Communication Number	C	AN	1/80	Used
		Description: Complete communications number including country or area code when applicable				
PER05	365	Communication Number Qualifier	C	ID	2/2	Used
		Description: Code identifying the type of communication number				
PER06	364	Communication Number	C	AN	1/80	Used
		Description: Complete communications number including country or area code when applicable				
PER07	365	Communication Number Qualifier	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>
		Description: Code identifying the type of communication number				
PER08	364	Communication Number	C	AN	1/80	Used
		Description: Complete communications number including country or area code when applicable				
* PER09	443	Contact Inquiry Reference	O	AN	1/20	Not Used
		Description: Additional reference number or description to clarify a contact number				

Syntax Rules:

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

CUR Currency

Pos: 130	Max: 1
Heading - Optional	
Loop: BS1	Elements: 21

User Option (Usage): Used

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

Element Summary:

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

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
		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 seconds are expressed as follows: D = tenths (0-9) and DD = hundredths (00-99)				

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
		follows: D = tenths (0-9) and DD = hundredths (00-99)				
* CUR19	374	Date/Time Qualifier	C	ID	3/3	Not Used
		Description: Code specifying type of date or time, or both date and time				
* CUR20	373	Date	C	DT	6/6	Not Used
		Description: Date (YYMMDD)				
* CUR21	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)				

Syntax Rules:

1. C0807 - If CUR08 is present, then CUR07 is required.
2. C0907 - If CUR09 is present, then CUR07 is required.
3. C1110 - If CUR11 is present, then CUR10 is required.
4. C1210 - If CUR12 is present, then CUR10 is required.
5. C1413 - If CUR14 is present, then CUR13 is required.
6. C1513 - If CUR15 is present, then CUR13 is required.
7. C1716 - If CUR17 is present, then CUR16 is required.
8. C1816 - If CUR18 is present, then CUR16 is required.
9. C2019 - If CUR20 is present, then CUR19 is required.
10. C2119 - If CUR21 is present, then CUR19 is required.
11. L101112 - If CUR10 is present, then at least one of CUR11 or CUR12 is required.
12. L131415 - If CUR13 is present, then at least one of CUR14 or CUR15 is required.
13. L161718 - If CUR16 is present, then at least one of CUR17 or CUR18 is required.
14. L192021 - If CUR19 is present, then at least one of CUR20 or CUR21 is required.

Loop Name

Pos: 140	Repeat: 10
Optional	
Loop: N1	Elements: N/A

User Option (Usage): Used

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

Loop Summary:

<u>Pos</u>	<u>Id</u>	<u>Segment Name</u>	<u>Req</u>	<u>Max Use</u>	<u>Repeat</u>	<u>Usage</u>
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

N1 Name

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

User Option (Usage): Used

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

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
N101	98	Entity Identifier Code	M	ID	2/2	Required
		Description: Code identifying an organizational entity, a physical location, or an individual				
		Code Name				
		BT		Bill-to-Party		
		SF		Ship From		
		ST		Ship To		
		VN		Vendor		
N102	93	Name	C	AN	1/35	Used
		Description: Free-form name				
N103	66	Identification Code Qualifier	C	ID	1/2	Used
		Description: Code designating the system/method of code structure used for Identification Code (67)				
		Code Name				
		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	C	AN	2/20	Used
		Description: Code identifying a party or other code				
* N105	706	Entity Relationship Code	O	ID	2/2	Not Used
		Description: Code describing entity relationship				
* N106	98	Entity Identifier Code	O	ID	2/2	Not Used
		Description: Code identifying an organizational entity, a physical location, or an individual				

Syntax Rules:

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

N2 Additional Name Information

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

User Option (Usage): Used

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

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
N201	93	Name	M	AN	1/35	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

User Option (Usage): Used

Purpose: To specify the location of the named party

Element Summary:

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

N4 Geographic Location

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

User Option (Usage): Used

Purpose: To specify the geographic place of the named party

Element Summary:

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

Syntax Rules:

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

Loop Hierarchical Level - ORDER

Pos: 030	Repeat: >1
Mandatory	
Loop: HL -	Elements: N/A
O	

User Option (Usage): Used

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

Loop Summary:

<u>Pos</u>	<u>Id</u>	<u>Segment Name</u>	<u>Req</u>	<u>Max Use</u>	<u>Repeat</u>	<u>Usage</u>
030	HL	Hierarchical Level - ORDER	M	1		Used
180		Loop BS2	O		1	Used

HL Hierarchical Level - ORDER

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

User Option (Usage): Used

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

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
HL01	628	Hierarchical ID Number	M	AN	1/12	Required
		Description: A unique number assigned by the sender to identify a particular data segment in a hierarchical structure				
HL02	734	Hierarchical Parent ID Number	O	AN	1/12	Used
		Description: Identification number of the next higher hierarchical data segment that the data segment being described is subordinate to				
HL03	735	Hierarchical Level Code	M	ID	1/2	Required
		Description: Code defining the characteristic of a level in a hierarchical structure				
		Code Name				
		O		Order		
HL04	736	Hierarchical Child Code	O	ID	1/1	Used
		Description: Code indicating if there are hierarchical child data segments subordinate to the level being described				
		All valid standard codes are used.				

Loop Total Monetary Value Summary

Pos: 180 Repeat: 1
 Optional
 Loop: BS2 Elements: N/A

User Option (Usage): Used

Purpose: To specify the total invoice discounts and amounts

Loop Summary:

<u>Pos</u>	<u>Id</u>	<u>Segment Name</u>	<u>Req</u>	<u>Max Use</u>	<u>Repeat</u>	<u>Usage</u>
180	TDS	Total Monetary Value Summary	O	1		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
240		Loop SAC	O		25	Used

TDS Total Monetary Value Summary

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

User Option (Usage): Used

Purpose: To specify the total invoice discounts and amounts

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

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.

PRF Purchase Order Reference

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

User Option (Usage): Used

Purpose: To provide reference to a specific purchase order

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
PRF01	324	Purchase Order Number 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 expressed as CCYYMMDD	O	DT	8/8	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

Semantics:

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

N9 Reference Identification

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

User Option (Usage): Used

Purpose: To transmit identifying information as specified by the Reference Identification Qualifier

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	M	ID	2/3	Required
		Description: Code Qualifying the Reference Identification				
		Code Name				
		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		
N902	127	Reference Identification	C	AN	1/30	Used
		Description: Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier				
* N903	369	Free-form Description	C	AN	1/45	Not Used
		Description: Free-form descriptive text				
N904	373	Date	O	DT	8/8	Used
		Description: Date expressed as CCYYMMDD				
* N905	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)				
* N906	623	Time Code	O	ID	2/2	Not Used
		Description: Code identifying the time. In accordance with International Standards Organization standard 8601, time can be specified by a + or - and an indication in hours in relation to Universal Time Coordinate (UTC) time; since + is a				

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
		restricted character, + and - are substituted by P and M in the codes that follow				
* N907	C040	Reference Identifier	O	Comp		Not Used
		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				

Syntax Rules:

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

Semantics:

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

DTM Date/Time Reference

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

User Option (Usage): Used

Purpose: To specify pertinent dates and times

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
DTM01	374	Date/Time Qualifier Description: Code specifying type of date or time, or both date and time Code Name 011 Shipped	M	ID	3/3	Required
DTM02	373	Date Description: Date expressed as CCYYMMDD	O	DT	8/8	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	Not 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

Syntax Rules:

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

TXI Tax Information

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

User Option (Usage): Used

Purpose: To specify tax information

Element Summary:

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

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
		purchaser (buyer, orderer) by a taxing jurisdiction (state, county, etc.); often called a tax exemption number or certificate number				
* TXI10	350	Assigned Identification Description: Alphanumeric characters assigned for differentiation within a transaction set	O	AN	1/20	Not Used

Syntax Rules:

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

Semantics:

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

Loop Service, Promotion, Allowance, or Charge Information

Pos: 240	Repeat: 25
Optional	
Loop: SAC	Elements: N/A

User Option (Usage): Used

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

Loop Summary:

<u>Pos</u>	<u>Id</u>	<u>Segment Name</u>	<u>Req</u>	<u>Max Use</u>	<u>Repeat</u>	<u>Usage</u>
240	SAC	Service, Promotion, Allowance, or Charge Information	O	1		Used

SAC Service, Promotion, Allowance, or Charge Information

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

User Option (Usage): Used

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

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
SAC01	248	Allowance or Charge Indicator	M	ID	1/1	Required
		Description: Code which indicates an allowance or charge for the service specified				
		Code Name				
		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				
		Code Name				
		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				

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
* SAC07	332	Percent Description: Percent expressed as a percent	C	R	1/6	Not Used
SAC08	118	Rate Description: Rate expressed in the standard monetary denomination for the currency specified	O	R	1/9	Used
SAC09	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 <u>Code</u> <u>Name</u> EA Each UN Unit	C	ID	2/2	Used
SAC10	380	Quantity Description: Numeric value of quantity	C	R	1/15	Used
* SAC11	380	Quantity Description: Numeric value of quantity	O	R	1/15	Not Used
SAC12	331	Allowance or Charge Method of Handling Code 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 Description: Code designating vendor as the issuer of an allowance	O	ID	2/2	Used
* SAC13	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
* SAC14	770	Option Number Description: A unique number identifying available promotion or allowance options when more than one is offered	O	AN	1/20	Not Used
* SAC15	352	Description Description: A free-form description to clarify the related data elements and their content	O	AN	1/80	Not Used

Syntax Rules:

1. C1110 - If SAC11 is present, then SAC10 is required.

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

Loop Hierarchical Level - TARE

Pos: 030 Repeat: >1
 Mandatory
 Loop: HL - Elements: N/A
 T

User Option (Usage): Used

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

Loop Summary:

<u>Pos</u>	<u>Id</u>	<u>Segment Name</u>	<u>Req</u>	<u>Max Use</u>	<u>Repeat</u>	<u>Usage</u>
030	HL	Hierarchical Level - TARE	M	1		Used
300		Loop BS3	O		1	Used

HL Hierarchical Level - TARE

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

User Option (Usage): Used

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

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
HL01	628	Hierarchical ID Number	M	AN	1/12	Required
		Description: A unique number assigned by the sender to identify a particular data segment in a hierarchical structure				
HL02	734	Hierarchical Parent ID Number	O	AN	1/12	Used
		Description: Identification number of the next higher hierarchical data segment that the data segment being described is subordinate to				
HL03	735	Hierarchical Level Code	M	ID	1/2	Required
		Description: Code defining the characteristic of a level in a hierarchical structure				
		Code Name				
		T				Shipping Tare
HL04	736	Hierarchical Child Code	O	ID	1/1	Used
		Description: Code indicating if there are hierarchical child data segments subordinate to the level being described				
		All valid standard codes are used.				

Loop Pallet Information

Pos: 300	Repeat: 1
Optional	
Loop: BS3	Elements: N/A

User Option (Usage): Used

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

Loop Summary:

<u>Pos</u>	<u>Id</u>	<u>Segment Name</u>	<u>Req</u>	<u>Max Use</u>	<u>Repeat</u>	<u>Usage</u>
300	PAL	Pallet Information	O	1		Used
310	MAN	Marks and Numbers	O	10		Used

PAL Pallet Information

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

User Option (Usage): Used

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

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
PAL01	883	Pallet Type Code Description: Code indicating the type of pallet Code Name 4 Standard 6 Wood	O	ID	1/2	Used
* 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
* PAL08	189	Width Description: Shorter measurement of the two horizontal dimensions measured with the object in the upright position	C	R	1/8	Not Used
* PAL09	65	Height Description: Vertical 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>
* PAL10	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
* PAL11	384	Gross Weight per Pack Description: Numeric value of gross weight per pack	C	R	1/9	Not Used
* PAL12	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
* PAL13	385	Gross Volume per Pack Description: Numeric value of gross volume per pack	C	R	1/9	Not Used
* PAL14	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
* PAL15	399	Pallet Exchange Code Description: Code specifying pallet exchange instructions	O	ID	1/1	Not Used

Syntax Rules:

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

Semantics:

1. PAL04 (Pack) is the number of pieces on the pallet.
2. PAL05 (Unit Weight) is the weight of the pallet alone, before loading.
3. PAL07 and PAL08 (Length and Width) are the dimensions of the pallet before loading.
4. PAL09 (Height) is the height of the pallet and load.
5. PAL11 and PAL13 (Gross Weight and Gross Volume) are measured after loading and includes the pallet.

MAN Marks and Numbers

Pos: 310	Max: 10
Heading - Optional	
Loop: BS3	Elements: 6

User Option (Usage): Used

Purpose: To indicate identifying marks and numbers for shipping containers

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
MAN01	88	Marks and Numbers Qualifier	M	ID	1/2	Required
		Description: Code specifying the application or source of Marks and Numbers (87)				
		Code Name				
		GM		SSCC-18 and Application Identifier		
		MC		Master Carton Number		
				Description: <i>The identification number of the outermost (external) container in a shipment leaving the supplier's dock</i>		
		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)				
* MAN05	87	Marks and Numbers	C	AN	1/48	Not Used
		Description: Marks and numbers used to identify a shipment or parts of a shipment				
* MAN06	87	Marks and Numbers	O	AN	1/48	Not Used
		Description: Marks and numbers used to identify a shipment or parts of a shipment				

Syntax Rules:

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

Loop Hierarchical Level - PACK

Pos: 030	Repeat: >1
Mandatory	
Loop: HL -	Elements: N/A
P	

User Option (Usage): Used

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

Loop Summary:

<u>Pos</u>	<u>Id</u>	<u>Segment Name</u>	<u>Req</u>	<u>Max Use</u>	<u>Repeat</u>	<u>Usage</u>
030	HL	Hierarchical Level - PACK	M	1		Used
140		Loop N1	O		10	Used
320		Loop BS4	O		1	Used

HL Hierarchical Level - PACK

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

User Option (Usage): Used

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

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
HL01	628	Hierarchical ID Number	M	AN	1/12	Required
		Description: A unique number assigned by the sender to identify a particular data segment in a hierarchical structure				
HL02	734	Hierarchical Parent ID Number	O	AN	1/12	Used
		Description: Identification number of the next higher hierarchical data segment that the data segment being described is subordinate to				
HL03	735	Hierarchical Level Code	M	ID	1/2	Required
		Description: Code defining the characteristic of a level in a hierarchical structure				
		Code Name				
		P		Pack		
HL04	736	Hierarchical Child Code	O	ID	1/1	Used
		Description: Code indicating if there are hierarchical child data segments subordinate to the level being described				
		All valid standard codes are used.				

Loop Name

Pos: 140	Repeat: 10
Optional	
Loop: N1	Elements: N/A

User Option (Usage): Used

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

Loop Summary:

<u>Pos</u>	<u>Id</u>	<u>Segment Name</u>	<u>Req</u>	<u>Max Use</u>	<u>Repeat</u>	<u>Usage</u>
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

N1 Name

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

User Option (Usage): Used

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

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
N101	98	Entity Identifier Code	M	ID	2/2	Required
		Description: Code identifying an organizational entity, a physical location, or an individual				
		Code Name				
		BT		Bill-to-Party		
		MA		Party for whom Item is Ultimately Intended		
		RI		Remit To		
		SF		Ship From		
		SP		Party filling Shipper's Order		
		ST		Ship To		
		VN		Vendor		
N102	93	Name	C	AN	1/35	Used
		Description: Free-form name				
N103	66	Identification Code Qualifier	C	ID	1/2	Used
		Description: Code designating the system/method of code structure used for Identification Code (67)				
		Code Name				
		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	C	AN	2/20	Used
		Description: Code identifying a party or other code				
* N105	706	Entity Relationship Code	O	ID	2/2	Not Used
		Description: Code describing entity relationship				
* N106	98	Entity Identifier Code	O	ID	2/2	Not Used
		Description: Code identifying an organizational entity, a physical location, or an individual				

Syntax Rules:

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

N2 Additional Name Information

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

User Option (Usage): Used

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

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
N201	93	Name	M	AN	1/35	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

User Option (Usage): Used

Purpose: To specify the location of the named party

Element Summary:

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

N4 Geographic Location

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

User Option (Usage): Used

Purpose: To specify the geographic place of the named party

Element Summary:

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

Syntax Rules:

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

Loop Assigned Number

Pos: 320	Repeat: 1
Optional	
Loop: BS4	Elements: N/A

User Option (Usage): Used

Purpose: To reference a line number in a transaction set

Loop Summary:

<u>Pos</u>	<u>Id</u>	<u>Segment Name</u>	<u>Req</u>	<u>Max Use</u>	<u>Repeat</u>	<u>Usage</u>
320	LX	Assigned Number	O	1		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

LX Assigned Number

Pos: 320	Max: 1
Heading - Optional	
Loop: BS4	Elements: 1

User Option (Usage): Used

Purpose: To reference a line number in a 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>
LX01	554	Assigned Number	M	N0	1/6	Required

Description: Number assigned for differentiation within a transaction set

N9 Reference Identification

Pos: 325	Max: 15
Heading - Optional	
Loop: BS4	Elements: 7

User Option (Usage): Used

Purpose: To transmit identifying information as specified by the Reference Identification Qualifier

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	M	ID	2/3	Required
		Description: Code Qualifying the Reference Identification				
		Code Name				
		CO		Customer Order Number		
		E5		Claimant's Claim Number		
				Description: <i>Unique number assigned to the claim by the claimant</i>		
		IV		Seller's Invoice Number		
		PO		Purchase Order Number		
N902	127	Reference Identification	C	AN	1/30	Used
		Description: Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier				
N903	369	Free-form Description	C	AN	1/45	Used
		Description: Free-form descriptive text				
* N904	373	Date	O	DT	6/6	Not Used
		Description: Date (YYMMDD)				
* N905	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)				
* N906	623	Time Code	O	ID	2/2	Not Used
		Description: Code identifying the time. In accordance with International Standards Organization standard 8601, time can be specified by a + or - and an indication in hours in relation to Universal Time Coordinate (UTC) time; since + is a restricted character, + and - are substituted by P and M in the codes that follow				
* 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				

Syntax Rules:

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

Semantics:

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

PO4 Item Physical Details

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

User Option (Usage): Used

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

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
PO401	356	Pack 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 Code Name CT Carton EA Each ST Set UN Unit	C	ID	2/2	Used
PO404	103	Packaging Code Description: Code identifying the type of packaging; Part 1: Packaging Form, Part 2: Packaging Material Code Name 25 Corrugated or Solid 71 Not Otherwise Specified 94 Wood CTN Carton ENV Envelope PLT Pallet	C	AN	3/5	Used
PO405	187	Weight Qualifier Description: Code defining the type of weight Code Name G Gross Weight	O	ID	1/2	Used
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	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>
		Description: Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken				
		Code Name				
		KG Kilogram				
		LB Pound				
* 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	Used
		Description: Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken				
		Code Name				
		CM Centimeter				
		IN Inch				
* PO414	810	Inner Pack	O	NO	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				

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
		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				

Syntax Rules:

1. C0506 - If PO405 is present, then PO406 is required.
2. C1013 - If PO410 is present, then PO413 is required.
3. C1113 - If PO411 is present, then PO413 is required.
4. C1213 - If PO412 is present, then PO413 is required.
5. C1716 - If PO417 is present, then PO416 is required.
6. C1804 - If PO418 is present, then PO404 is required.
7. L13101112 - If PO413 is present, then at least one of PO410, PO411 or PO412 is required.
8. P0203 - If either PO402 or PO403 is present, then the other is required.
9. P0607 - If either PO406 or PO407 is present, then the other is required.
10. P0809 - If either PO408 or PO409 is present, then the other 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.

PKG Marking, Packaging, Loading

Pos: 350	Max: 10
Heading - Optional	
Loop: BS4	Elements: 6

User Option (Usage): Used

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

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
PKG01	349	Item Description Type	C	ID	1/1	Used
		Description: Code indicating the format of a description				
		Code Name				
		S Structured (From Industry Code List)				
PKG02	753	Packaging Characteristic Code	O	ID	1/5	Used
		Description: Code specifying the marking, packaging, loading and related characteristics being described				
PKG03	559	Agency Qualifier Code	C	ID	2/2	Used
		Description: Code identifying the agency assigning the code values				
		Code Name				
		BI Book Industry Systems Advisory Committee				
PKG04	754	Packaging Description Code	C	AN	1/7	Used
		Description: A code from an industry code list which provides specific data about the marking, packaging or loading and unloading of a product				
		Code Name				
		01 Good				
		02 Damaged				
		03 Recouped				
		04 New Material				
		05 Suitable for reuse without reconditioning				
		06 Suitable for reuse after reconditioning				
		07 No longer Useful for original purpose, but, still of some use				
		08 Junk Material				
		ZZ Mutually Defined				
PKG05	352	Description	C	AN	1/80	Used
		Description: A free-form description to clarify the related data elements and their content				
* PKG06	400	Unit Load Option Code	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>
		Description: Code identifying loading or unloading a shipment				

Syntax Rules:

1. C0403 - If PKG04 is present, then PKG03 is required.
2. C0501 - If PKG05 is present, then PKG01 is required.
3. R040506 - At least one of PKG04, PKG05 or PKG06 is required.

Semantics:

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

MAN Marks and Numbers

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

User Option (Usage): Used

Purpose: To indicate identifying marks and numbers for shipping containers

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
MAN01	88	Marks and Numbers Qualifier	M	ID	1/2	Required
		Description: Code specifying the application or source of Marks and Numbers (87)				
		Code Name				
		GM		SSCC-18 and Application Identifier		
		MC		Master Carton Number		
				Description: <i>The identification number of the outermost (external) container in a shipment leaving the supplier's dock</i>		
		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)				
* MAN05	87	Marks and Numbers	C	AN	1/48	Not Used
		Description: Marks and numbers used to identify a shipment or parts of a shipment				
* MAN06	87	Marks and Numbers	O	AN	1/48	Not Used
		Description: Marks and numbers used to identify a shipment or parts of a shipment				

Syntax Rules:

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

Loop Hierarchical Level - ITEM

Pos: 030	Repeat: >1
Mandatory	
Loop: HL -	Elements: N/A
I	

User Option (Usage): Used

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

Loop Summary:

<u>Pos</u>	<u>Id</u>	<u>Segment Name</u>	<u>Req</u>	<u>Max Use</u>	<u>Repeat</u>	<u>Usage</u>
030	HL	Hierarchical Level - ITEM	M	1		Used
370		Loop BS5	O		1	Used

HL Hierarchical Level - ITEM

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

User Option (Usage): Used

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

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
HL01	628	Hierarchical ID Number	M	AN	1/12	Required
		Description: A unique number assigned by the sender to identify a particular data segment in a hierarchical structure				
HL02	734	Hierarchical Parent ID Number	O	AN	1/12	Used
		Description: Identification number of the next higher hierarchical data segment that the data segment being described is subordinate to				
HL03	735	Hierarchical Level Code	M	ID	1/2	Required
		Description: Code defining the characteristic of a level in a hierarchical structure				
		Code Name				
		I		Item		
HL04	736	Hierarchical Child Code	O	ID	1/1	Used
		Description: Code indicating if there are hierarchical child data segments subordinate to the level being described				
		All valid standard codes are used.				

Loop Baseline Item Data (Invoice)

Pos: 370	Repeat: 1
Optional	
Loop: BS5	Elements: N/A

User Option (Usage): Used

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

Loop Summary:

<u>Pos</u>	<u>Id</u>	<u>Segment Name</u>	<u>Req</u>	<u>Max Use</u>	<u>Repeat</u>	<u>Usage</u>
370	IT1	Baseline Item Data (Invoice)	O	1		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
450		Loop PID	O		25	Used
490		Loop SAC	O		25	Used

IT1 Baseline Item Data (Invoice)

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

User Option (Usage): Used

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

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	O	AN	1/20	Used
		Description: Alphanumeric characters assigned for differentiation within a transaction set				
IT102	358	Quantity Invoiced	C	R	1/10	Used
		Description: Number of units invoiced (supplier units)				
IT103	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>				
		UN Unit				
IT104	212	Unit Price	C	R	1/17	Used
		Description: Price per unit of product, service, commodity, etc.				
IT105	639	Basis of Unit Price Code	O	ID	2/2	Used
		Description: Code identifying the type of unit price for an item				
		<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				
		EN European Article Number (EAN) (2-5-5-1)				
		User:				
		ISBN-13				
		IB International Standard Book Number (ISBN)				
		User:				
		ISBN-10				
		UK U.P.C./EAN Shipping Container Code (1-2-5-5-1)				
		Description: A 14-digit code that uniquely identifies the manufacturer's shipping unit,				

Code Name

including the packaging indicator and check digit; the first digit is the packaging indicator, the next two digits are the number system characters, the next five digits are the manufacturer ID number, the second five digits are the item code, and the final digit is the check digit

User:

UCC/EAN-14

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)				

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
* IT117	234	Product/Service ID Description: Identifying number for a product or service	C	AN	1/40	Not Used
* IT118	235	Product/Service ID Qualifier Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234)	C	ID	2/2	Not Used
* IT119	234	Product/Service ID Description: Identifying number for a product or service	C	AN	1/40	Not Used
* IT120	235	Product/Service ID Qualifier Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234)	C	ID	2/2	Not Used
* IT121	234	Product/Service ID Description: Identifying number for a product or service	C	AN	1/40	Not Used
* IT122	235	Product/Service ID Qualifier Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234)	C	ID	2/2	Not Used
* IT123	234	Product/Service ID Description: Identifying number for a product or service	C	AN	1/40	Not Used
* IT124	235	Product/Service ID Qualifier Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234)	C	ID	2/2	Not Used
* IT125	234	Product/Service ID Description: Identifying number for a product or service	C	AN	1/40	Not Used

Syntax Rules:

1. P020304 - If either IT102, IT103 or IT104 are present, then the others are required.
2. P0607 - If either IT106 or IT107 is present, then the other is required.
3. P0809 - If either IT108 or IT109 is present, then the other is required.
4. P1011 - If either IT110 or IT111 is present, then the other is required.
5. P1213 - If either IT112 or IT113 is present, then the other is required.
6. P1415 - If either IT114 or IT115 is present, then the other is required.
7. P1617 - If either IT116 or IT117 is present, then the other is required.
8. P1819 - If either IT118 or IT119 is present, then the other is required.
9. P2021 - If either IT120 or IT121 is present, then the other is required.
10. P2223 - If either IT122 or IT123 is present, then the other is required.

11. P2425 - If either IT124 or IT125 is present, then the other is required.

Semantics:

1. IT101 is the purchase order line item identification.

PO4 Item Physical Details

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

User Option (Usage): Used

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

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
* PO401	356	Pack 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 Description: Code defining the type of weight	O	ID	1/2	Not Used
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	Not Used
* 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

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
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	Not Used
* PO414	810	Inner Pack Description: Number of units in each selling pack	O	N0	1/6	Not Used
* 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

Syntax Rules:

1. C0506 - If PO405 is present, then PO406 is required.
2. C1013 - If PO410 is present, then PO413 is required.
3. C1113 - If PO411 is present, then PO413 is required.
4. C1213 - If PO412 is present, then PO413 is required.
5. C1716 - If PO417 is present, then PO416 is required.
6. C1804 - If PO418 is present, then PO404 is required.
7. L13101112 - If PO413 is present, then at least one of PO410, PO411 or PO412 is required.
8. P0203 - If either PO402 or PO403 is present, then the other is required.
9. P0607 - If either PO406 or PO407 is present, then the other is required.
10. P0809 - If either PO408 or PO409 is present, then the other 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.

TXI Tax Information

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

User Option (Usage): Used

Purpose: To specify tax information

Element Summary:

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

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
		purchaser (buyer, orderer) by a taxing jurisdiction (state, county, etc.); often called a tax exemption number or certificate number				
* TXI10	350	Assigned Identification Description: Alphanumeric characters assigned for differentiation within a transaction set	O	AN	1/20	Not Used

Syntax Rules:

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

Semantics:

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

CTP Pricing Information

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

User Option (Usage): Used

Purpose: To specify pricing information

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
* 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 Code Name ALT Alternate Price CAT Catalog Price CON Contract Price NET Net Item Price PRP Promotional price SLP Suggested List Price	C	ID	3/3	Used
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
*	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
*	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

<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
*	CTP06	Price Multiplier Qualifier Description: Code indicating the type of price multiplier	O	ID	3/3	Not Used
*	CTP07	Multiplier Description: Value to be used as a multiplier to obtain a new value	C	R	1/10	Not Used
*	CTP08	Monetary Amount	O	R	1/15	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: Monetary amount				
* CTP09	639	Basis of Unit Price Code	O	ID	2/2	Not Used
		Description: Code identifying the type of unit price for an item				
* CTP10	499	Condition Value	O	AN	1/10	Not Used
		Description: Identifies rate restrictions or provisions				
* CTP11	289	Multiple Price Quantity	O	NO	1/2	Not Used
		Description: Quantity of units for a given price, e.g., 3 for \$10.00				

Syntax Rules:

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

N9 Reference Identification

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

User Option (Usage): Used

Purpose: To transmit identifying information as specified by the Reference Identification Qualifier

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	M	ID	2/3	Required
		Description: Code Qualifying the Reference Identification				
		Code Name				
		BM				Bill of Lading Number
		CN				Carrier's Reference Number (PRO/Invoice)
		CO				Customer Order Number
		E5				Claimant's Claim Number
						Description: Unique number assigned to the claim by the claimant
		IV				Seller's Invoice Number
		MA				Ship Notice/Manifest Number
		MB				Master Bill of Lading
		PO				Purchase Order Number
		RZ				Returned Goods Authorization Number
N902	127	Reference Identification	C	AN	1/30	Used
		Description: Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier				
N903	369	Free-form Description	C	AN	1/45	Used
		Description: Free-form descriptive text				
* N904	373	Date	O	DT	6/6	Not Used
		Description: Date (YYMMDD)				
* N905	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)				
* N906	623	Time Code	O	ID	2/2	Not Used
		Description: Code identifying the time. In accordance with International Standards Organization standard 8601, time can be specified by a + or - and an indication in				

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
		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				
* N907	C040	Reference Identifier	O	Comp		Not Used
		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				

Syntax Rules:

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

Semantics:

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

Loop Product/Item Description

Pos: 450	Repeat: 25
Optional	
Loop: PID	Elements: N/A

User Option (Usage): Used

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

Loop Summary:

<u>Pos</u>	<u>Id</u>	<u>Segment Name</u>	<u>Req</u>	<u>Max Use</u>	<u>Repeat</u>	<u>Usage</u>
450	PID	Product/Item Description	O	1		Used

PID Product/Item Description

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

User Option (Usage): Used

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

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
PID01	349	Item Description Type	M	ID	1/1	Required
		Description: Code indicating the format of a description				
		Code Name				
		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				
		Code Name				
		PFA Physical Form				
		QAS Quality Assurance Status				
		Description: <i>Material status assigned by the quality assurance department</i>				
PID03	559	Agency Qualifier Code	C	ID	2/2	Used
		Description: Code identifying the agency assigning the code values				
		Code Name				
		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				
		Code Name				
		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				

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
		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)				

Syntax Rules:

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

Semantics:

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

Loop Service, Promotion, Allowance, or Charge Information

Pos: 490 Repeat: 25
 Optional
 Loop: SAC Elements: N/A

User Option (Usage): Used

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

Loop Summary:

<u>Pos</u>	<u>Id</u>	<u>Segment Name</u>	<u>Req</u>	<u>Max Use</u>	<u>Repeat</u>	<u>Usage</u>
490	SAC	Service, Promotion, Allowance, or Charge Information	O	1		Used
500	TXI	Tax Information	O	10		Used

SAC Service, Promotion, Allowance, or Charge Information

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

User Option (Usage): Used

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

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
SAC01	248	Allowance or Charge Indicator	M	ID	1/1	Required
<p>Description: Code which indicates an allowance or charge for the service specified</p> <p>Code Name</p> <p>A Allowance C Charge N No Allowance or Charge P Promotion</p>						
SAC02	1300	Service, Promotion, Allowance, or Charge Code	C	ID	4/4	Used
<p>Description: Code identifying the service, promotion, allowance, or charge</p> <p>Code Name</p> <p>A990 Cataloging Services B210 Co-op Credit D200 Freight Charges to Destination D220 Freight Passthrough E170 Labeling H850 Tax</p>						
* SAC03	559	Agency Qualifier Code	C	ID	2/2	Not Used
<p>Description: Code identifying the agency assigning the code values</p>						
* SAC04	1301	Agency Service, Promotion, Allowance, or Charge Code	C	AN	1/10	Not Used
<p>Description: Agency maintained code identifying the service, promotion, allowance, or charge</p>						
SAC05	610	Amount	O	N2	1/15	Used
<p>Description: Monetary amount</p>						
* SAC06	378	Allowance/ Charge Percent Qualifier	C	ID	1/1	Not Used
<p>Description: Code indicating on what basis allowance or charge percent is calculated</p>						

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
* SAC07	332	Percent Description: Percent expressed as a percent	C	R	1/6	Not Used
SAC08	118	Rate Description: Rate expressed in the standard monetary denomination for the currency specified	O	R	1/9	Used
SAC09	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 <u>Code</u> <u>Name</u> EA Each UN Unit	C	ID	2/2	Used
SAC10	380	Quantity Description: Numeric value of quantity	C	R	1/15	Used
* SAC11	380	Quantity Description: Numeric value of quantity	O	R	1/15	Not Used
SAC12	331	Allowance or Charge Method of Handling Code 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 Description: Code designating vendor as the issuer of an allowance	O	ID	2/2	Used
* SAC13	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
* SAC14	770	Option Number Description: A unique number identifying available promotion or allowance options when more than one is offered	O	AN	1/20	Not Used
* SAC15	352	Description Description: A free-form description to clarify the related data elements and their content	O	AN	1/80	Not Used

Syntax Rules:

1. C1110 - If SAC11 is present, then SAC10 is required.

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

TXI Tax Information

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

User Option (Usage): Used

Purpose: To specify tax information

Element Summary:

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

Syntax Rules:

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

Semantics:

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

SE Transaction Set Trailer

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

User Option (Usage): Required

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

Element Summary:

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

Comments:

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