

# **857 Shipment and Billing Notice**

**Version: X12-4010**

<b>Author:</b>	<b>BISAC SCEDI committee</b>
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<b>N3</b>	<b>Address Information</b>	<b>69</b>
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# 857 Shipment and Billing Notice

## 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:

Pos	Id	Segment Name	Req	Max Use	Repeat	Notes	Usage
010	ST	Transaction Set Header	M	1		C1/010	Required
020	BHT	Beginning of Hierarchical Transaction	M	1		N1/020	Required
<b>LOOP ID - HL - S</b>					<b>≥1</b>	<b>N1/030L</b>	
030	HL	Hierarchical Level - SHIPMENT	M	1		N1/030	Used
<b>LOOP ID - BS1</b>					<b>1</b>	<b>N1/040L</b>	
040	G05	Total Shipment Information	O	1		N1/040	Used
050	TD1	Carrier Details (Quantity and Weight)	O	5			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
<b>LOOP ID - N1</b>					<b>10</b>		
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
<b>LOOP ID - HL - O</b>					<b>≥1</b>	<b>N1/030L</b>	
030	HL	Hierarchical Level - ORDER	M	1		N1/030	Used
<b>LOOP ID - BS2</b>					<b>1</b>	<b>N1/180L</b>	
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
220	ITD	Terms of Sale/Deferred Terms of Sale	O	5			Used
230	TXI	Tax Information	O	10			Used
<b><u>LOOP ID - SAC</u></b>					<b><u>25</u></b>		
240	SAC	Service, Promotion, Allowance, or Charge Information	O	1			Used
<b><u>LOOP ID - N1</u></b>					<b><u>10</u></b>		
260	N1	Name	O	1			Used
270	N2	Additional Name Information	O	2			Used
280	N3	Address Information	O	2			Used
290	N4	Geographic Location	O	1			Used
<b><u>LOOP ID - HL - T</u></b>					<b><u>≥1</u></b>	<b><u>N1/030L</u></b>	
030	HL	Hierarchical Level - TARE	M	1		N1/030	Used
<b><u>LOOP ID - BS3</u></b>					<b><u>1</u></b>	<b><u>N1/300L</u></b>	
300	PAL	Pallet Information	O	1		N1/300	Used
310	MAN	Marks and Numbers	O	10			Used
<b><u>LOOP ID - HL - P</u></b>					<b><u>≥1</u></b>	<b><u>N1/030L</u></b>	
030	HL	Hierarchical Level - PACK	M	1		N1/030	Used
<b><u>LOOP ID - N1</u></b>					<b><u>10</u></b>		
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
<b><u>LOOP ID - BS4</u></b>					<b><u>1</u></b>	<b><u>N1/320L</u></b>	
320	LX	Assigned Number	O	1		N1/320	Used
330	PO4	Item Physical Details	O	1			Used
360	MAN	Marks and Numbers	O	10			Used
<b><u>LOOP ID - HL - I</u></b>					<b><u>≥1</u></b>	<b><u>N1/030L</u></b>	
030	HL	Hierarchical Level - ITEM	M	1		N1/030	Used
<b><u>LOOP ID - BS5</u></b>					<b><u>1</u></b>	<b><u>N1/370L</u></b>	
370	IT1	Baseline Item Data (Invoice)	O	1		N1/370	Used
410	TXI	Tax Information	O	10			Used
420	CTP	Pricing Information	O	10			Used
430	N9	Reference Identification	O	10			Used
<b><u>LOOP ID - PID</u></b>					<b><u>25</u></b>		
450	PID	Product/Item Description	O	1			Used
<b><u>LOOP ID - SAC</u></b>					<b><u>25</u></b>		
490	SAC	Service, Promotion, Allowance, or Charge Information	O	1			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>
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	<b>Transaction Set Identifier Code</b>	M	ID	3/3	Required
		<b>Description:</b> Code uniquely identifying a Transaction Set				
		<b><u>Code</u> <u>Name</u></b>				
		857 Shipment and Billing Notice				
ST02	329	<b>Transaction Set Control Number</b>	M	AN	4/9	Required
		<b>Description:</b> 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	<b>Hierarchical Structure Code</b>	M	ID	4/4	Required
		<b>Description:</b> Code indicating the hierarchical application structure of a transaction set that utilizes the HL segment to define the structure of the transaction set				
		<b>Code Name</b> 0001 Shipment, Order, Packaging, Item 0002 Shipment, Order, Item, Packaging				
BHT02	353	<b>Transaction Set Purpose Code</b>	M	ID	2/2	Required
		<b>Description:</b> Code identifying purpose of transaction set				
		<b>Code Name</b> 00 Original 05 Replace 07 Duplicate				
BHT03	127	<b>Reference Identification</b>	O	AN	1/30	Used
		<b>Description:</b> Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier				
BHT04	373	<b>Date</b>	O	DT	8/8	Used
		<b>Description:</b> Date expressed as CCYYMMDD				
BHT05	337	<b>Time</b>	O	TM	4/8	Used
		<b>Description:</b> Time expressed in 24-hour clock time as follows: HHMM, or HHMMSS, or HHMMSSD, or HHMMSSDD, where H = hours (00-23), M = minutes (00-59), S = integer seconds (00-59) and DD = decimal seconds; decimal seconds are expressed as follows: D = tenths (0-9) and DD = hundredths (00-99)				
BHT06	640	<b>Transaction Type Code</b>	O	ID	2/2	Used
		<b>Description:</b> Code specifying the type of transaction				

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

# 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
050	TD1	Carrier Details (Quantity and Weight)	O	5		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	<b>Number of Units Shipped</b>	C	R	1/10	Used
		<b>Description:</b> Numeric value of units shipped in manufacturer's shipping units for a line item or transaction set				
G0502	355	<b>Unit or Basis for Measurement Code</b>	C	ID	2/2	Used
		<b>Description:</b> Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken				
G0503	81	<b>Weight</b>	C	R	1/10	Used
		<b>Description:</b> Numeric value of weight				
G0504	355	<b>Unit or Basis for Measurement Code</b>	C	ID	2/2	Used
		<b>Description:</b> Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken				
G0505	183	<b>Volume</b>	C	R	1/8	Used
		<b>Description:</b> Value of volumetric measure				
G0506	355	<b>Unit or Basis for Measurement Code</b>	C	ID	2/2	Used
		<b>Description:</b> Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken				
G0507	80	<b>Lading Quantity</b>	C	NO	1/7	Used
		<b>Description:</b> Number of units (pieces) of the lading commodity				
G0508	355	<b>Unit or Basis for Measurement Code</b>	C	ID	2/2	Used
		<b>Description:</b> Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken				

## 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.

# TD1 Carrier Details (Quantity and Weight)

Pos: 050	Max: 5
Heading - Optional	
Loop: BS1	Elements: 10

**User Option (Usage):** Used

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

## Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
TD101	103	<b>Packaging Code</b>	O	AN	3/5	Used
		<b>Description:</b> Code identifying the type of packaging; Part 1: Packaging Form, Part 2: Packaging Material				
		<u>Code</u> <u>Name</u>				
		25 Corrugated or Solid				
		71 Not Otherwise Specified				
		94 Wood				
		CNT Container				
		CTN Carton				
		ENV Envelope				
		PLT Pallet				
		UNT Unit				
TD102	80	<b>Lading Quantity</b>	C	N0	1/7	Used
		<b>Description:</b> Number of units (pieces) of the lading commodity				
TD103	23	<b>Commodity Code Qualifier</b>	O	ID	1/1	Used
		<b>Description:</b> Code identifying the commodity coding system used for Commodity Code				
		<u>Code</u> <u>Name</u>				
		Z Mutually defined				
* TD104	22	<b>Commodity Code</b>	C	AN	1/30	Not Used
		<b>Description:</b> Code describing a commodity or group of commodities				
* TD105	79	<b>Lading Description</b>	O	AN	1/50	Not Used
		<b>Description:</b> Description of an item as required for rating and billing purposes				
TD106	187	<b>Weight Qualifier</b>	O	ID	1/2	Used
		<b>Description:</b> Code defining the type of weight				
		<u>Code</u> <u>Name</u>				
		G Gross Weight				
TD107	81	<b>Weight</b>	C	R	1/10	Used

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
		<b>Description:</b> Numeric value of weight				
TD108	355	<b>Unit or Basis for Measurement Code</b>	C	ID	2/2	Used
		<b>Description:</b> Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken				
		<b>Code Name</b>				
		KG Kilogram				
		LB Pound				
* TD109	183	<b>Volume</b>	C	R	1/8	Not Used
		<b>Description:</b> Value of volumetric measure				
* TD110	355	<b>Unit or Basis for Measurement Code</b>	C	ID	2/2	Not Used
		<b>Description:</b> Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken				

### Syntax Rules:

1. C0102 - If TD101 is present, then TD102 is required.
2. C0304 - If TD103 is present, then TD104 is required.
3. C0607 - If TD106 is present, then TD107 is required.
4. P0708 - If either TD107 or TD108 is present, then the other is required.
5. P0910 - If either TD109 or TD110 is present, then the other is required.



# TD5 Carrier Details (Routing Sequence/Transit Time)

Pos: 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	<b>Routing Sequence Code</b>	O	ID	1/2	Used
		<b>Description:</b> Code describing the relationship of a carrier to a specific shipment movement				
		<b>Code Name</b> B Origin/Delivery Carrier (Any Mode)				
TD502	66	<b>Identification Code Qualifier</b>	C	ID	1/2	Used
		<b>Description:</b> Code designating the system/method of code structure used for Identification Code (67)				
		<b>Code Name</b> 2 Standard Carrier Alpha Code (SCAC) 91 Assigned by Seller or Seller's Agent 92 Assigned by Buyer or Buyer's Agent				
TD503	67	<b>Identification Code</b>	C	AN	2/20	Used
		<b>Description:</b> Code identifying a party or other code				
TD504	91	<b>Transportation Method/Type Code</b>	C	ID	1/2	Used
		<b>Description:</b> Code specifying the method or type of transportation for the shipment				
		<b>Code Name</b> A Air C Consolidation D Parcel Post H Customer Pickup L Contract Carrier M Motor (Common Carrier) P Private Carrier T Best Way (Shippers Option) U Private Parcel Service AE Air Express BP Book Postal				
TD505	387	<b>Routing</b>	C	AN	1/35	Used
		<b>Description:</b> Free-form description of the routing or requested routing for shipment, or				

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
		the originating carrier's identity				
TD506	368	<b>Shipment/Order Status Code</b>	C	ID	2/2	Used
		<b>Description:</b> Code indicating the status of an order or shipment or the disposition of any difference between the quantity ordered and the quantity shipped for a line item or transaction				
		<b>Code Name</b>				
		CC Shipment Complete on (Date)				
		CP Partial Shipment on (Date), Considered No Backorder				
		SS Split Shipment				
* TD507	309	<b>Location Qualifier</b>	O	ID	1/2	Not Used
		<b>Description:</b> Code identifying type of location				
* TD508	310	<b>Location Identifier</b>	C	AN	1/30	Not Used
		<b>Description:</b> Code which identifies a specific location				
* TD509	731	<b>Transit Direction Code</b>	O	ID	2/2	Not Used
		<b>Description:</b> The point of origin and point of direction				
TD510	732	<b>Transit Time Direction Qualifier</b>	O	ID	2/2	Used
		<b>Description:</b> Code specifying the value of time used to measure the transit time				
		<b>Code Name</b>				
		CD Calendar Days (Includes weekends and Holidays)				
		WD Working Days (Excludes weekends and holidays)				
TD511	733	<b>Transit Time</b>	C	R	1/4	Used
		<b>Description:</b> The numeric amount of transit time				
* TD512	284	<b>Service Level Code</b>	C	ID	2/2	Not Used
		<b>Description:</b> Code indicating the level of transportation service or the billing service offered by the transportation carrier				
* TD513	284	<b>Service Level Code</b>	C	ID	2/2	Not Used
		<b>Description:</b> Code indicating the level of transportation service or the billing service offered by the transportation carrier				
* TD514	284	<b>Service Level Code</b>	O	ID	2/2	Not Used
		<b>Description:</b> 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	<b>Shipment Method of Payment</b>	M	ID	2/2	Required
		<b>Description:</b> Code identifying payment terms for transportation charges				
		<b>Code</b>		<b>Name</b>		
		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	<b>Location Qualifier</b>	C	ID	1/2	Not Used
		<b>Description:</b> Code identifying type of location				
* FOB03	352	<b>Description</b>	O	AN	1/80	Not Used
		<b>Description:</b> A free-form description to clarify the related data elements and their content				
* FOB04	334	<b>Transportation Terms Qualifier Code</b>	O	ID	2/2	Not Used
		<b>Description:</b> Code identifying the source of the transportation terms				
* FOB05	335	<b>Transportation Terms Code</b>	C	ID	3/3	Not Used
		<b>Description:</b> Code identifying the trade terms which apply to the shipment transportation responsibility				
* FOB06	309	<b>Location Qualifier</b>	C	ID	1/2	Not Used
		<b>Description:</b> Code identifying type of location				
* FOB07	352	<b>Description</b>	O	AN	1/80	Not Used
		<b>Description:</b> A free-form description to clarify the related data elements and their content				
* FOB08	54	<b>Risk of Loss Qualifier</b>	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>
		<b>Description:</b> Code specifying where responsibility for risk of loss passes				
FOB09	352	<b>Description</b>	C	AN	1/80	Used
		<b>Description:</b> 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	<b>Date/Time Qualifier</b>	M	ID	3/3	Required
		<b>Description:</b> Code specifying type of date or time, or both date and time				
		<b>Code Name</b>				
		011 Shipped				
		067 Current Schedule Delivery				
		068 Current Schedule Ship				
DTM02	373	<b>Date</b>	O	DT	8/8	Used
		<b>Description:</b> Date expressed as CCYYMMDD				
* DTM03	337	<b>Time</b>	C	TM	4/8	Not Used
		<b>Description:</b> Time expressed in 24-hour clock time as follows: HHMM, or HHMMSS, or HHMMSSD, or HHMMSSDD, where H = hours (00-23), M = minutes (00-59), S = integer seconds (00-59) and DD = decimal seconds; decimal seconds are expressed as follows: D = tenths (0-9) and DD = hundredths (00-99)				
* DTM04	623	<b>Time Code</b>	O	ID	2/2	Not Used
		<b>Description:</b> Code identifying the time. In accordance with International Standards Organization standard 8601, time can be specified by a + or - and an indication in hours in relation to Universal Time Coordinate (UTC) time; since + is a restricted character, + and - are substituted by P and M in the codes that follow				
* DTM05	624	<b>Century</b>	O	N0	2/2	Not Used
		<b>Description:</b> The first two characters in the designation of the year (CCYY)				
* DTM06	1250	<b>Date Time Period Format Qualifier</b>	C	ID	2/3	Not Used
		<b>Description:</b> Code indicating the date format, time format, or date and time format				
* DTM07	1251	<b>Date Time Period</b>	C	AN	1/35	Not Used
		<b>Description:</b> Expression of a date, a time, or range of dates, times or dates and times				

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
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**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	<b>Reference Identification Qualifier</b>	M	ID	2/3	Required
		<b>Description:</b> Code Qualifying the Reference Identification <b>Code Name</b> BM Bill of Lading Number CN Carrier's Reference Number (PRO/Invoice) GT Goods and Service Tax Registration Number MA Ship Notice/Manifest Number MB Master Bill of Lading SI Shipper's Identifying Number for Shipment (SID) <b>Description:</b> A unique number (to the shipper) assigned by the shipper to identify the shipment				
N902	127	<b>Reference Identification</b>	C	AN	1/30	Used
		<b>Description:</b> Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier				
N903	369	<b>Free-form Description</b>	C	AN	1/45	Used
		<b>Description:</b> Free-form descriptive text				
* N904	373	<b>Date</b>	O	DT	6/6	Not Used
		<b>Description:</b> Date (YYMMDD)				
* N905	337	<b>Time</b>	C	TM	4/8	Not Used
		<b>Description:</b> Time expressed in 24-hour clock time as follows: HHMM, or HHMMSS, or HHMMSSD, or HHMMSSDD, where H = hours (00-23), M = minutes (00-59), S = integer seconds (00-59) and DD = decimal seconds; decimal seconds are expressed as follows: D = tenths (0-9) and DD = hundredths (00-99)				
* N906	623	<b>Time Code</b>	O	ID	2/2	Not Used
		<b>Description:</b> Code identifying the time. In accordance with International Standards Organization standard 8601, time can be specified by a + or - and an indication in hours in relation to Universal Time Coordinate (UTC) time; since + is a restricted character, + and - are substituted				



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

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

<b>Pos: 130</b>	<b>Max: 1</b>
<b>Heading - Optional</b>	
<b>Loop: BS1</b>	<b>Elements: 21</b>

**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	<b>Entity Identifier Code</b>	M	ID	2/2	Required
		<b>Description:</b> Code identifying an organizational entity, a physical location, or an individual				
		<b>Code Name</b>				
		BY Buying Party (Purchaser)				
		SE Selling Party				
CUR02	100	<b>Currency Code</b>	M	ID	3/3	Required
		<b>Description:</b> Code (Standard ISO) for country in whose currency the charges are specified				
* CUR03	280	<b>Exchange Rate</b>	O	R	4/10	Not Used
		<b>Description:</b> Value to be used as a multiplier conversion factor to convert monetary value from one currency to another				
* CUR04	98	<b>Entity Identifier Code</b>	O	ID	2/2	Not Used
		<b>Description:</b> Code identifying an organizational entity, a physical location, or an individual				
* CUR05	100	<b>Currency Code</b>	O	ID	3/3	Not Used
		<b>Description:</b> Code (Standard ISO) for country in whose currency the charges are specified				
* CUR06	669	<b>Currency Market/Exchange Code</b>	O	ID	3/3	Not Used
		<b>Description:</b> Code identifying the market upon which the currency exchange rate is based				
* CUR07	374	<b>Date/Time Qualifier</b>	C	ID	3/3	Not Used
		<b>Description:</b> Code specifying type of date or time, or both date and time				
* CUR08	373	<b>Date</b>	O	DT	6/6	Not Used
		<b>Description:</b> Date (YYMMDD)				
* CUR09	337	<b>Time</b>	O	TM	4/8	Not Used
		<b>Description:</b> 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	<b>Date/Time Qualifier</b>  <b>Description:</b> Code specifying type of date or time, or both date and time	C	ID	3/3	Not Used
* CUR11	373	<b>Date</b>  <b>Description:</b> Date (YYMMDD)	C	DT	6/6	Not Used
* CUR12	337	<b>Time</b>  <b>Description:</b> Time expressed in 24-hour clock time as follows: HHMM, or HHMMSS, or HHMMSSD, or HHMMSSDD, where H = hours (00-23), M = minutes (00-59), S = integer seconds (00-59) and DD = decimal seconds; decimal seconds are expressed as follows: D = tenths (0-9) and DD = hundredths (00-99)	C	TM	4/8	Not Used
* CUR13	374	<b>Date/Time Qualifier</b>  <b>Description:</b> Code specifying type of date or time, or both date and time	C	ID	3/3	Not Used
* CUR14	373	<b>Date</b>  <b>Description:</b> Date (YYMMDD)	C	DT	6/6	Not Used
* CUR15	337	<b>Time</b>  <b>Description:</b> Time expressed in 24-hour clock time as follows: HHMM, or HHMMSS, or HHMMSSD, or HHMMSSDD, where H = hours (00-23), M = minutes (00-59), S = integer seconds (00-59) and DD = decimal seconds; decimal seconds are expressed as follows: D = tenths (0-9) and DD = hundredths (00-99)	C	TM	4/8	Not Used
* CUR16	374	<b>Date/Time Qualifier</b>  <b>Description:</b> Code specifying type of date or time, or both date and time	C	ID	3/3	Not Used
* CUR17	373	<b>Date</b>  <b>Description:</b> Date (YYMMDD)	C	DT	6/6	Not Used
* CUR18	337	<b>Time</b>  <b>Description:</b> Time expressed in 24-hour clock time as follows: HHMM, or HHMMSS, or HHMMSSD, or HHMMSSDD, where H = hours (00-23), M = minutes (00-59), S = integer seconds (00-59) and DD = decimal seconds; decimal seconds are expressed as follows: D = tenths (0-9) and DD = hundredths (00-99)	C	TM	4/8	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>
		follows: D = tenths (0-9) and DD = hundredths (00-99)				
* CUR19	374	<b>Date/Time Qualifier</b>	C	ID	3/3	Not Used
		<b>Description:</b> Code specifying type of date or time, or both date and time				
* CUR20	373	<b>Date</b>	C	DT	6/6	Not Used
		<b>Description:</b> Date (YYMMDD)				
* CUR21	337	<b>Time</b>	C	TM	4/8	Not Used
		<b>Description:</b> Time expressed in 24-hour clock time as follows: HHMM, or HHMMSS, or HHMMSSD, or HHMMSSDD, where H = hours (00-23), M = minutes (00-59), S = integer seconds (00-59) and DD = decimal seconds; decimal seconds are expressed as follows: D = tenths (0-9) and DD = hundredths (00-99)				

### 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

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

**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

<b>Pos: 140</b>	<b>Max: 1</b>
<b>Heading - Optional</b>	
<b>Loop: N1</b>	<b>Elements: 6</b>

**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	<b>Entity Identifier Code</b>	M	ID	2/2	Required
		<b>Description:</b> Code identifying an organizational entity, a physical location, or an individual				
		<b>Code Name</b>				
		BT Bill-to-Party				
		FS Final Scheduled Destination				
		<b>Description:</b> Customs duties, excise taxes, and use of bonded fuels are dependent on whether an aircraft flight originated or is destined for an international location, these codes would be used to note those occurrences				
		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	<b>Name</b>	C	AN	1/35	Used
		<b>Description:</b> Free-form name				
N103	66	<b>Identification Code Qualifier</b>	C	ID	1/2	Used
		<b>Description:</b> Code designating the system/method of code structure used for Identification Code (67)				
		<b>Code Name</b>				
		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	<b>Identification Code</b>	C	AN	2/20	Used
		<b>Description:</b> Code identifying a party or other code				
* N105	706	<b>Entity Relationship Code</b>	O	ID	2/2	Not Used
		<b>Description:</b> Code describing entity relationship				
* N106	98	<b>Entity Identifier Code</b>	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>
		<b>Description:</b> 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	<b>City Name</b>	O	AN	2/30	Used
		<b>Description:</b> Free-form text for city name				
N402	156	<b>State or Province Code</b>	O	ID	2/2	Used
		<b>Description:</b> Code (Standard State/Province) as defined by appropriate government agency				
N403	116	<b>Postal Code</b>	O	ID	3/15	Used
		<b>Description:</b> Code defining international postal zone code excluding punctuation and blanks (zip code for United States)				
N404	26	<b>Country Code</b>	O	ID	2/3	Used
		<b>Description:</b> Code identifying the country				
N405	309	<b>Location Qualifier</b>	C	ID	1/2	Used
		<b>Description:</b> Code identifying type of location				
N406	310	<b>Location Identifier</b>	O	AN	1/30	Used
		<b>Description:</b> 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	<b>Hierarchical ID Number</b>	M	AN	1/12	Required
		<b>Description:</b> A unique number assigned by the sender to identify a particular data segment in a hierarchical structure				
HL02	734	<b>Hierarchical Parent ID Number</b>	O	AN	1/12	Used
		<b>Description:</b> Identification number of the next higher hierarchical data segment that the data segment being described is subordinate to				
HL03	735	<b>Hierarchical Level Code</b>	M	ID	1/2	Required
		<b>Description:</b> Code defining the characteristic of a level in a hierarchical structure				
		<u>Code</u> <u>Name</u>				
		O    Order				
HL04	736	<b>Hierarchical Child Code</b>	O	ID	1/1	Used
		<b>Description:</b> Code indicating if there are hierarchical child data segments subordinate to the level being described				
		<b>All valid standard codes are used.</b>				

# 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
220	ITD	Terms of Sale/Deferred Terms of Sale	O	5		Used
230	TXI	Tax Information	O	10		Used
240		Loop SAC	O		25	Used
260		Loop N1	O		10	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	<b>Purchase Order Number</b>  <b>Description:</b> Identifying number for Purchase Order assigned by the orderer/purchaser	M	AN	1/22	Required
* PRF02	328	<b>Release Number</b>  <b>Description:</b> Number identifying a release against a Purchase Order previously placed by the parties involved in the transaction	O	AN	1/30	Not Used
* PRF03	327	<b>Change Order Sequence Number</b>  <b>Description:</b> Number assigned by the orderer identifying a specific change or revision to a previously transmitted transaction set	O	AN	1/8	Not Used
PRF04	373	<b>Date</b>  <b>Description:</b> Date expressed as CCYYMMDD	O	DT	8/8	Used
* PRF05	350	<b>Assigned Identification</b>  <b>Description:</b> Alphanumeric characters assigned for differentiation within a transaction set	O	AN	1/20	Not Used
PRF06	367	<b>Contract Number</b>  <b>Description:</b> Contract number	O	AN	1/30	Used
* PRF07	92	<b>Purchase Order Type Code</b>  <b>Description:</b> Code specifying the type of Purchase Order	O	ID	2/2	Not Used

## Semantics:

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

# N9 Reference Identification

<b>Pos: 200</b>	<b>Max: &gt;1</b>
<b>Heading - Optional</b>	
<b>Loop: BS2</b>	<b>Elements: 7</b>

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

# ITD Terms of Sale/Deferred Terms of Sale

Pos: 220	Max: 5
Heading - Optional	
Loop: BS2	Elements: 15

**User Option (Usage):** Used

**Purpose:** To specify terms of sale

## 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>
ITD01	336	<b>Terms Type Code</b>	O	ID	2/2	Used
		<b>Description:</b> Code identifying type of payment terms				
		<u>Code</u> <u>Name</u>				
		01 Basic				
		02 End of Month (EOM)				
		03 Fixed Date				
		05 Discount Not Applicable				
		07 Extended				
		12 10 Days After End of Month (10 EOM)				
		14 Previously agreed upon				
		18 Fixed Date, Late Payment Penalty Applies				
		<b>Description:</b> Sales terms specifying a past due date, and a late payment percentage penalty applies to unpaid balances past this due date				
		22 Cash Discount Terms Apply				
		<b>Description:</b> Contract terms specify that a cash discount is applicable				
		CO Consignment				
		NC No Charge				
ITD02	333	<b>Terms Basis Date Code</b>	O	ID	1/2	Used
		<b>Description:</b> Code identifying the beginning of the terms period				
		<u>Code</u> <u>Name</u>				
		1 Ship Date				
		3 Invoice Date				
		4 Specified Date				
		8 Invoice Transmission Date				
		ZZ Mutually Defined				
ITD03	338	<b>Terms Discount Percent</b>	O	R	1/6	Used
		<b>Description:</b> Terms discount percentage, expressed as a percent, available to the purchaser if an invoice is paid on or before the Terms Discount Due Date				
ITD04	370	<b>Terms Discount Due Date</b>	X	DT	8/8	Used
		<b>Description:</b> Date payment is due if discount is to be earned expressed in format CCYYMMDD				

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
ITD05	351	<b>Terms Discount Days Due</b> <b>Description:</b> Number of days in the terms discount period by which payment is due if terms discount is earned	C	N0	1/3	Used
ITD06	446	<b>Terms Net Due Date</b> <b>Description:</b> Date when total invoice amount becomes due expressed in format CCYYMMDD	O	DT	8/8	Used
ITD07	386	<b>Terms Net Days</b> <b>Description:</b> Number of days until total invoice amount is due (discount not applicable)	O	N0	1/3	Used
ITD08	362	<b>Terms Discount Amount</b> <b>Description:</b> Total amount of terms discount	O	N2	1/10	Used
* ITD09	388	<b>Terms Deferred Due Date</b> <b>Description:</b> Date deferred payment or percent of invoice payable is due	O	DT	6/6	Not Used
* ITD10	389	<b>Deferred Amount Due</b> <b>Description:</b> Deferred amount due for payment	C	N2	1/10	Not Used
* ITD11	342	<b>Percent of Invoice Payable</b> <b>Description:</b> Amount of invoice payable expressed in percent	C	R	1/5	Not Used
* ITD12	352	<b>Description</b> <b>Description:</b> A free-form description to clarify the related data elements and their content	O	AN	1/80	Not Used
ITD13	765	<b>Day of Month</b> <b>Description:</b> The numeric value of the day of the month between 1 and the maximum day of the month being referenced	C	N0	1/2	Used
ITD14	107	<b>Payment Method Code</b> <b>Description:</b> Code identifying type of payment procedures  <b>Code</b> <b>Name</b> C Pay By Check E Electronic Payment System L Letter of Credit	O	ID	1/1	Used
* ITD15	954	<b>Percent</b> <b>Description:</b> Percentage expressed as a decimal	O	R	1/10	Not Used

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
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**Syntax Rules:**

1. L03040513 - If ITD03 is present, then at least one of ITD04, ITD05 or ITD13 is required.
2. L08040513 - If ITD08 is present, then at least one of ITD04, ITD05 or ITD13 is required.
3. L091011 - If ITD09 is present, then at least one of ITD10 or ITD11 is required.

**Semantics:**

1. ITD15 is the percentage applied to a base amount used to determine a late payment charge.

# 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	<b>Tax Type Code</b>	M	ID	2/2	Required
		<b>Description:</b> Code specifying the type of tax				
		<b><u>Code</u> <u>Name</u></b>				
		GS Goods and Services Tax				
		<b>Description:</b> <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				
		<b>Description:</b> <i>Total of all applicable taxes</i>				
TXI02	782	<b>Monetary Amount</b>	C	R	1/15	Used
		<b>Description:</b> Monetary amount				
TXI03	954	<b>Percent</b>	C	R	1/10	Used
		<b>Description:</b> Percentage expressed as a decimal				
* TXI04	955	<b>Tax Jurisdiction Code Qualifier</b>	C	ID	2/2	Not Used
		<b>Description:</b> Code identifying the source of the data used in tax jurisdiction code				
* TXI05	956	<b>Tax Jurisdiction Code</b>	C	AN	1/10	Not Used
		<b>Description:</b> Code identifying the taxing jurisdiction				
* TXI06	441	<b>Tax Exempt Code</b>	C	ID	1/1	Not Used
		<b>Description:</b> Code identifying exemption status from sales and use tax				
* TXI07	662	<b>Relationship Code</b>	O	ID	1/1	Not Used
		<b>Description:</b> Code indicating the relationship between entities				
* TXI08	828	<b>Dollar Basis For Percent</b>	O	R	1/9	Not Used
		<b>Description:</b> Dollar basis to be used in the percent calculation of the allowance, charge or tax				
* TXI09	325	<b>Tax Identification Number</b>	O	AN	1/20	Not Used
		<b>Description:</b> 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	<b>Assigned Identification</b>  <b>Description:</b> 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: 240Repeat: 25  
Optional  
Loop: SACElements: 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	<b>Allowance or Charge Indicator</b>	M	ID	1/1	Required
		<b>Description:</b> Code which indicates an allowance or charge for the service specified				
		<b><u>Code</u> <u>Name</u></b>				
		A Allowance				
		C Charge				
		N No Allowance or Charge				
		P Promotion				
SAC02	1300	<b>Service, Promotion, Allowance, or Charge Code</b>	C	ID	4/4	Used
		<b>Description:</b> Code identifying the service, promotion, allowance, or charge				
		<b><u>Code</u> <u>Name</u></b>				
		A990 Cataloging Services				
		B210 Co-op Credit				
		D200 Freight Charges to Destination				
		D220 Freight Passthrough				
		E170 Labeling				
		F800 Promotional Allowance				
		H850 Tax				
* SAC03	559	<b>Agency Qualifier Code</b>	C	ID	2/2	Not Used
		<b>Description:</b> Code identifying the agency assigning the code values				
* SAC04	1301	<b>Agency Service, Promotion, Allowance, or Charge Code</b>	C	AN	1/10	Not Used
		<b>Description:</b> Agency maintained code identifying the service, promotion, allowance, or charge				
SAC05	610	<b>Amount</b>	O	N2	1/15	Used
		<b>Description:</b> Monetary amount				
* SAC06	378	<b>Allowance/ Charge Percent Qualifier</b>	C	ID	1/1	Not Used
		<b>Description:</b> Code indicating on what basis				

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
		allowance or charge percent is calculated				
* SAC07	332	<b>Percent</b> <b>Description:</b> Percent expressed as a percent	C	R	1/6	Not Used
SAC08	118	<b>Rate</b> <b>Description:</b> Rate expressed in the standard monetary denomination for the currency specified	O	R	1/9	Used
SAC09	355	<b>Unit or Basis for Measurement Code</b> <b>Description:</b> Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken  <u>Code</u> <u>Name</u> EA Each UN Unit	C	ID	2/2	Used
SAC10	380	<b>Quantity</b> <b>Description:</b> Numeric value of quantity	C	R	1/15	Used
* SAC11	380	<b>Quantity</b> <b>Description:</b> Numeric value of quantity	O	R	1/15	Not Used
SAC12	331	<b>Allowance or Charge Method of Handling Code</b> <b>Description:</b> Code indicating method of handling for an allowance or charge  <u>Code</u> <u>Name</u> 06 Charge to be Paid by Customer 09 Allowance To Be Issued by Vendor <b>Description:</b> Code designating vendor as the issuer of an allowance	O	ID	2/2	Used
* SAC13	127	<b>Reference Identification</b> <b>Description:</b> Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	C	AN	1/30	Not Used
* SAC14	770	<b>Option Number</b> <b>Description:</b> A unique number identifying available promotion or allowance options when more than one is offered	O	AN	1/20	Not Used
* SAC15	352	<b>Description</b> <b>Description:</b> 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.

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# Loop Name

Pos: 260	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>
260	N1	Name	O	1		Used
270	N2	Additional Name Information	O	2		Used
280	N3	Address Information	O	2		Used
290	N4	Geographic Location	O	1		Used

# N1 Name

<b>Pos: 260</b>	<b>Max: 1</b>
<b>Heading - Optional</b>	
<b>Loop: N1</b>	<b>Elements: 6</b>

**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	<b>Entity Identifier Code</b>	M	ID	2/2	Required
		<b>Description:</b> Code identifying an organizational entity, a physical location, or an individual				
		<b>Code Name</b> BS Bill and Ship To BT Bill-to-Party MA Party for whom Item is Ultimately Intended OB Ordered By SE Selling Party SF Ship From ST Ship To VN Vendor				
N102	93	<b>Name</b>	C	AN	1/35	Used
		<b>Description:</b> Free-form name				
N103	66	<b>Identification Code Qualifier</b>	C	ID	1/2	Used
		<b>Description:</b> Code designating the system/method of code structure used for Identification Code (67)				
		<b>Code Name</b> 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	<b>Identification Code</b>	C	AN	2/20	Used
		<b>Description:</b> Code identifying a party or other code				
* N105	706	<b>Entity Relationship Code</b>	O	ID	2/2	Not Used
		<b>Description:</b> Code describing entity relationship				
* N106	98	<b>Entity Identifier Code</b>	O	ID	2/2	Not Used
		<b>Description:</b> Code identifying an organizational entity, a physical location, or an individual				

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
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**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: 270	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: 280	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

<b>Pos: 290</b>	<b>Max: 1</b>
<b>Heading - Optional</b>	
<b>Loop: N1</b>	<b>Elements: 6</b>

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

## Syntax Rules:

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

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

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# 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

<b>Pos: 300</b>	<b>Max: 1</b>
<b>Heading - Optional</b>	
<b>Loop: BS3</b>	<b>Elements: 15</b>

**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	<b>Pallet Type Code</b>	O	ID	1/2	Used
		<b>Description:</b> Code indicating the type of pallet				
		<b>Code Name</b>				
		4 Standard				
		6 Wood				
* PAL02	884	<b>Pallet Tiers</b>	O	N0	1/3	Not Used
		<b>Description:</b> The number of layers per pallet				
* PAL03	885	<b>Pallet Blocks</b>	O	N0	1/3	Not Used
		<b>Description:</b> The number of pieces (cartons) per layer on the pallet				
* PAL04	356	<b>Pack</b>	O	N0	1/6	Not Used
		<b>Description:</b> Number of inner pack units per outer pack unit				
* PAL05	395	<b>Unit Weight</b>	C	R	1/8	Not Used
		<b>Description:</b> Numeric value of weight per unit				
* PAL06	355	<b>Unit or Basis for Measurement Code</b>	C	ID	2/2	Not Used
		<b>Description:</b> Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken				
* PAL07	82	<b>Length</b>	C	R	1/8	Not Used
		<b>Description:</b> Largest horizontal dimension of an object measured when the object is in the upright position				
* PAL08	189	<b>Width</b>	C	R	1/8	Not Used
		<b>Description:</b> Shorter measurement of the two horizontal dimensions measured with the object in the upright position				
* PAL09	65	<b>Height</b>	C	R	1/8	Not Used
		<b>Description:</b> Vertical dimension of an object measured when the object is in the upright position				

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
* PAL10	355	<b>Unit or Basis for Measurement Code</b>  <b>Description:</b> Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken	C	ID	2/2	Not Used
* PAL11	384	<b>Gross Weight per Pack</b>  <b>Description:</b> Numeric value of gross weight per pack	C	R	1/9	Not Used
* PAL12	355	<b>Unit or Basis for Measurement Code</b>  <b>Description:</b> Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken	C	ID	2/2	Not Used
* PAL13	385	<b>Gross Volume per Pack</b>  <b>Description:</b> Numeric value of gross volume per pack	C	R	1/9	Not Used
* PAL14	355	<b>Unit or Basis for Measurement Code</b>  <b>Description:</b> Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken	C	ID	2/2	Not Used
* PAL15	399	<b>Pallet Exchange Code</b>  <b>Description:</b> 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	<b>Marks and Numbers Qualifier</b>	M	ID	1/2	Required
		<b>Description:</b> Code specifying the application or source of Marks and Numbers (87)				
		<b>Code Name</b> GM SSCC-18 and Application Identifier MC Master Carton Number <b>Description:</b> The identification number of the outermost (external) container in a shipment leaving the supplier's dock SM Shipper Assigned SS Shipper Assigned Skid Number UC U.P.C. Shipping Container Code				
MAN02	87	<b>Marks and Numbers</b>	M	AN	1/48	Required
		<b>Description:</b> Marks and numbers used to identify a shipment or parts of a shipment				
* MAN03	87	<b>Marks and Numbers</b>	O	AN	1/48	Not Used
		<b>Description:</b> Marks and numbers used to identify a shipment or parts of a shipment				
* MAN04	88	<b>Marks and Numbers Qualifier</b>	C	ID	1/2	Not Used
		<b>Description:</b> Code specifying the application or source of Marks and Numbers (87)				
* MAN05	87	<b>Marks and Numbers</b>	C	AN	1/48	Not Used
		<b>Description:</b> Marks and numbers used to identify a shipment or parts of a shipment				
* MAN06	87	<b>Marks and Numbers</b>	O	AN	1/48	Not Used
		<b>Description:</b> 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	<b>Hierarchical ID Number</b>	M	AN	1/12	Required
		<b>Description:</b> A unique number assigned by the sender to identify a particular data segment in a hierarchical structure				
HL02	734	<b>Hierarchical Parent ID Number</b>	O	AN	1/12	Used
		<b>Description:</b> Identification number of the next higher hierarchical data segment that the data segment being described is subordinate to				
HL03	735	<b>Hierarchical Level Code</b>	M	ID	1/2	Required
		<b>Description:</b> Code defining the characteristic of a level in a hierarchical structure				
		<u>Code</u> <u>Name</u>				
		P Pack				
HL04	736	<b>Hierarchical Child Code</b>	O	ID	1/1	Used
		<b>Description:</b> Code indicating if there are hierarchical child data segments subordinate to the level being described				
		<b>All valid standard codes are used.</b>				

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# Loop Name

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

**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

<b>Pos: 140</b>	<b>Max: 1</b>
<b>Heading - Optional</b>	
<b>Loop: N1</b>	<b>Elements: 6</b>

**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	<b>Entity Identifier Code</b>	M	ID	2/2	Required
		<b>Description:</b> Code identifying an organizational entity, a physical location, or an individual				
		<b>Code Name</b> BT Bill-to-Party FS Final Scheduled Destination <b>Description:</b> Customs duties, excise taxes, and use of bonded fuels are dependent on whether an aircraft flight originated or is destined for an international location, these codes would be used to note those occurrences 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	<b>Name</b>	C	AN	1/35	Used
		<b>Description:</b> Free-form name				
N103	66	<b>Identification Code Qualifier</b>	C	ID	1/2	Used
		<b>Description:</b> Code designating the system/method of code structure used for Identification Code (67)				
		<b>Code Name</b> 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	<b>Identification Code</b>	C	AN	2/20	Used
		<b>Description:</b> Code identifying a party or other code				
* N105	706	<b>Entity Relationship Code</b>	O	ID	2/2	Not Used
		<b>Description:</b> Code describing entity relationship				
* N106	98	<b>Entity Identifier Code</b>	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>
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**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:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
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	<b>City Name</b>	O	AN	2/30	Used
		<b>Description:</b> Free-form text for city name				
N402	156	<b>State or Province Code</b>	O	ID	2/2	Used
		<b>Description:</b> Code (Standard State/Province) as defined by appropriate government agency				
N403	116	<b>Postal Code</b>	O	ID	3/15	Used
		<b>Description:</b> Code defining international postal zone code excluding punctuation and blanks (zip code for United States)				
N404	26	<b>Country Code</b>	O	ID	2/3	Used
		<b>Description:</b> Code identifying the country				
N405	309	<b>Location Qualifier</b>	C	ID	1/2	Used
		<b>Description:</b> Code identifying type of location				
N406	310	<b>Location Identifier</b>	O	AN	1/30	Used
		<b>Description:</b> 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
330	PO4	Item Physical Details	O	1		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						

# 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	<b>Pack</b>	O	N0	1/6	Used
		<b>Description:</b> Number of inner pack units per outer pack unit				
* PO402	357	<b>Size</b>	C	R	1/8	Not Used
		<b>Description:</b> Size of supplier units in pack				
PO403	355	<b>Unit or Basis for Measurement Code</b>	C	ID	2/2	Used
		<b>Description:</b> 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>				
		CT Carton				
		EA Each				
		ST Set				
		UN Unit				
PO404	103	<b>Packaging Code</b>	C	AN	3/5	Used
		<b>Description:</b> Code identifying the type of packaging; Part 1: Packaging Form, Part 2: Packaging Material				
		<u>Code</u> <u>Name</u>				
		25 Corrugated or Solid				
		71 Not Otherwise Specified				
		94 Wood				
		CTN Carton				
		ENV Envelope				
		PLT Pallet				
PO405	187	<b>Weight Qualifier</b>	O	ID	1/2	Used
		<b>Description:</b> Code defining the type of weight				
		<u>Code</u> <u>Name</u>				
		G Gross Weight				
PO406	384	<b>Gross Weight per Pack</b>	C	R	1/9	Used
		<b>Description:</b> Numeric value of gross weight per pack				
PO407	355	<b>Unit or Basis for Measurement Code</b>	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>
		<b>Description:</b> 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				
* PO408	385	<b>Gross Volume per Pack</b>	C	R	1/9	Not Used
		<b>Description:</b> Numeric value of gross volume per pack				
* PO409	355	<b>Unit or Basis for Measurement Code</b>	C	ID	2/2	Not Used
		<b>Description:</b> Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken				
PO410	82	<b>Length</b>	C	R	1/8	Used
		<b>Description:</b> Largest horizontal dimension of an object measured when the object is in the upright position				
PO411	189	<b>Width</b>	C	R	1/8	Used
		<b>Description:</b> Shorter measurement of the two horizontal dimensions measured with the object in the upright position				
PO412	65	<b>Height</b>	C	R	1/8	Used
		<b>Description:</b> Vertical dimension of an object measured when the object is in the upright position				
PO413	355	<b>Unit or Basis for Measurement Code</b>	C	ID	2/2	Used
		<b>Description:</b> 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> CM Centimeter IN Inch				
* PO414	810	<b>Inner Pack</b>	O	N0	1/6	Not Used
		<b>Description:</b> Number of units in each selling pack				
* PO415	752	<b>Surface/Layer/Position Code</b>	O	ID	2/2	Not Used
		<b>Description:</b> Code indicating the product surface, layer or position that is being described				
* PO416	350	<b>Assigned Identification</b>	C	AN	1/20	Not Used
		<b>Description:</b> 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	<b>Assigned Identification</b>	O	AN	1/20	Not Used
		<b>Description:</b> Alphanumeric characters assigned for differentiation within a transaction set				
* PO418	1470	<b>Number</b>	O	N0	1/9	Not Used
		<b>Description:</b> 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.

# 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	<b>Marks and Numbers Qualifier</b>	M	ID	1/2	Required
		<b>Description:</b> Code specifying the application or source of Marks and Numbers (87)				
		<b>Code Name</b>				
		GM SSCC-18 and Application Identifier				
		SM Shipper Assigned				
		SS Shipper Assigned Skid Number				
MAN02	87	<b>Marks and Numbers</b>	M	AN	1/48	Required
		<b>Description:</b> Marks and numbers used to identify a shipment or parts of a shipment				
* MAN03	87	<b>Marks and Numbers</b>	O	AN	1/48	Not Used
		<b>Description:</b> Marks and numbers used to identify a shipment or parts of a shipment				
* MAN04	88	<b>Marks and Numbers Qualifier</b>	C	ID	1/2	Not Used
		<b>Description:</b> Code specifying the application or source of Marks and Numbers (87)				
* MAN05	87	<b>Marks and Numbers</b>	C	AN	1/48	Not Used
		<b>Description:</b> Marks and numbers used to identify a shipment or parts of a shipment				
* MAN06	87	<b>Marks and Numbers</b>	O	AN	1/48	Not Used
		<b>Description:</b> 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	<b>Hierarchical ID Number</b>	M	AN	1/12	Required
		<b>Description:</b> A unique number assigned by the sender to identify a particular data segment in a hierarchical structure				
HL02	734	<b>Hierarchical Parent ID Number</b>	O	AN	1/12	Used
		<b>Description:</b> Identification number of the next higher hierarchical data segment that the data segment being described is subordinate to				
HL03	735	<b>Hierarchical Level Code</b>	M	ID	1/2	Required
		<b>Description:</b> Code defining the characteristic of a level in a hierarchical structure				
		<u>Code</u> <u>Name</u>				
		I Item				
HL04	736	<b>Hierarchical Child Code</b>	O	ID	1/1	Used
		<b>Description:</b> Code indicating if there are hierarchical child data segments subordinate to the level being described				
		<b>All valid standard codes are used.</b>				

# 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
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	<b>Assigned Identification</b>  <b>Description:</b> Alphanumeric characters assigned for differentiation within a transaction set	O	AN	1/20	Used																						
IT102	358	<b>Quantity Invoiced</b>  <b>Description:</b> Number of units invoiced (supplier units)	C	R	1/10	Used																						
IT103	355	<b>Unit or Basis for Measurement Code</b>  <b>Description:</b> Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken  <table><tr><th><u>Code</u></th><th><u>Name</u></th></tr><tr><td>CA</td><td>Case</td></tr><tr><td>CT</td><td>Carton</td></tr><tr><td>EA</td><td>Each</td></tr><tr><td>ST</td><td>Set</td></tr><tr><td>UN</td><td>Unit</td></tr></table>	<u>Code</u>	<u>Name</u>	CA	Case	CT	Carton	EA	Each	ST	Set	UN	Unit	C	ID	2/2	Used										
<u>Code</u>	<u>Name</u>																											
CA	Case																											
CT	Carton																											
EA	Each																											
ST	Set																											
UN	Unit																											
IT104	212	<b>Unit Price</b>  <b>Description:</b> Price per unit of product, service, commodity, etc.	C	R	1/17	Used																						
IT105	639	<b>Basis of Unit Price Code</b>  <b>Description:</b> Code identifying the type of unit price for an item  <table><tr><th><u>Code</u></th><th><u>Name</u></th></tr><tr><td>CA</td><td>Catalog</td></tr><tr><td>CT</td><td>Contract</td></tr><tr><td>NC</td><td>No Charge</td></tr><tr><td colspan="2"><b>User:</b> <i>The book industry uses this code to specify free goods</i></td></tr><tr><td>NT</td><td>Net</td></tr><tr><td colspan="2"><b>Description:</b> <i>Indicates a net unit price</i></td></tr><tr><td>PE</td><td>Price per Each</td></tr><tr><td>PR</td><td>Promotion</td></tr><tr><td>QT</td><td>Quoted</td></tr><tr><td>SR</td><td>Suggested Retail</td></tr></table>	<u>Code</u>	<u>Name</u>	CA	Catalog	CT	Contract	NC	No Charge	<b>User:</b> <i>The book industry uses this code to specify free goods</i>		NT	Net	<b>Description:</b> <i>Indicates a net unit price</i>		PE	Price per Each	PR	Promotion	QT	Quoted	SR	Suggested Retail	O	ID	2/2	Used
<u>Code</u>	<u>Name</u>																											
CA	Catalog																											
CT	Contract																											
NC	No Charge																											
<b>User:</b> <i>The book industry uses this code to specify free goods</i>																												
NT	Net																											
<b>Description:</b> <i>Indicates a net unit price</i>																												
PE	Price per Each																											
PR	Promotion																											
QT	Quoted																											
SR	Suggested Retail																											

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
IT106	235	<b>Product/Service ID Qualifier</b>	C	ID	2/2	Used

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

**Code Name**

AI Alternate ISBN

**Description:** *ISBN-10*

B1 Volume Set

B2 Library of Congress Code

B3 Edition Code

B4 Binding Code

B5 Title Code

B6 Author Code

B7 Publisher Code

BN Bar-Coded Serial Number

CB Buyer's Catalog Number

EN European Article Number (EAN) (2-5-5-1)

**User:**

*ISBN-13*

GC Grade Code

IB International Standard Book Number (ISBN)

**User:**

*ISBN-10*

JN Job Number

PL Purchaser's Order Line Number

PO Purchase Order Number

PR Process Number

RP Replaced Part Number

RR Replacement Product Number

**User:**

*UCC/EAN-14 alternate/replacement*

RT Reel Type

RU Run Number

RY Record Keeping or Model Year

SJ Religious Retail Non-book Item

SK Stock Keeping Unit (SKU)

SL Seller's Lot Number

SR Substitute Product Number

**User:**

*UCC/EAN-14 alternate/replacement*

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, 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*

		<u>Code</u>	<u>Name</u>				
		<b>User:</b>					
		UCC/EAN-14					
		UP	U.P.C. Consumer Package Code (1-5-5-1)				
		VE	Vendor Color				
		VN	Vendor's (Seller's) Item Number				
IT107	234	<b>Product/Service ID</b>	C	AN	1/40	Used	
		<b>Description:</b> Identifying number for a product or service					
IT108	235	<b>Product/Service ID Qualifier</b>	C	ID	2/2	Used	
		<b>Description:</b> Code identifying the type/source of the descriptive number used in Product/Service ID (234)					
IT109	234	<b>Product/Service ID</b>	C	AN	1/40	Used	
		<b>Description:</b> Identifying number for a product or service					
IT110	235	<b>Product/Service ID Qualifier</b>	C	ID	2/2	Used	
		<b>Description:</b> Code identifying the type/source of the descriptive number used in Product/Service ID (234)					
IT111	234	<b>Product/Service ID</b>	C	AN	1/40	Used	
		<b>Description:</b> Identifying number for a product or service					
IT112	235	<b>Product/Service ID Qualifier</b>	C	ID	2/2	Used	
		<b>Description:</b> Code identifying the type/source of the descriptive number used in Product/Service ID (234)					
IT113	234	<b>Product/Service ID</b>	C	AN	1/40	Used	
		<b>Description:</b> Identifying number for a product or service					
IT114	235	<b>Product/Service ID Qualifier</b>	C	ID	2/2	Used	
		<b>Description:</b> Code identifying the type/source of the descriptive number used in Product/Service ID (234)					
IT115	234	<b>Product/Service ID</b>	C	AN	1/40	Used	
		<b>Description:</b> Identifying number for a product or service					
IT116	235	<b>Product/Service ID Qualifier</b>	C	ID	2/2	Used	
		<b>Description:</b> Code identifying the type/source of the descriptive number used in Product/Service ID (234)					
IT117	234	<b>Product/Service ID</b>	C	AN	1/40	Used	

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
		<b>Description:</b> Identifying number for a product or service				
IT118	235	<b>Product/Service ID Qualifier</b>	C	ID	2/2	Used
		<b>Description:</b> Code identifying the type/source of the descriptive number used in Product/Service ID (234)				
IT119	234	<b>Product/Service ID</b>	C	AN	1/40	Used
		<b>Description:</b> Identifying number for a product or service				
IT120	235	<b>Product/Service ID Qualifier</b>	C	ID	2/2	Used
		<b>Description:</b> Code identifying the type/source of the descriptive number used in Product/Service ID (234)				
IT121	234	<b>Product/Service ID</b>	C	AN	1/40	Used
		<b>Description:</b> Identifying number for a product or service				
IT122	235	<b>Product/Service ID Qualifier</b>	C	ID	2/2	Used
		<b>Description:</b> Code identifying the type/source of the descriptive number used in Product/Service ID (234)				
IT123	234	<b>Product/Service ID</b>	C	AN	1/40	Used
		<b>Description:</b> Identifying number for a product or service				
IT124	235	<b>Product/Service ID Qualifier</b>	C	ID	2/2	Used
		<b>Description:</b> Code identifying the type/source of the descriptive number used in Product/Service ID (234)				
IT125	234	<b>Product/Service ID</b>	C	AN	1/40	Used
		<b>Description:</b> Identifying number for a product or service				

### 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.

# 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	<b>Tax Type Code</b>	M	ID	2/2	Required
		<b>Description:</b> Code specifying the type of tax				
		<b><u>Code</u> <u>Name</u></b>				
		GS Goods and Services Tax				
		<b>Description:</b> <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				
		<b>Description:</b> <i>Total of all applicable taxes</i>				
TXI02	782	<b>Monetary Amount</b>	C	R	1/15	Used
		<b>Description:</b> Monetary amount				
TXI03	954	<b>Percent</b>	C	R	1/10	Used
		<b>Description:</b> Percentage expressed as a decimal				
* TXI04	955	<b>Tax Jurisdiction Code Qualifier</b>	C	ID	2/2	Not Used
		<b>Description:</b> Code identifying the source of the data used in tax jurisdiction code				
* TXI05	956	<b>Tax Jurisdiction Code</b>	C	AN	1/10	Not Used
		<b>Description:</b> Code identifying the taxing jurisdiction				
* TXI06	441	<b>Tax Exempt Code</b>	C	ID	1/1	Not Used
		<b>Description:</b> Code identifying exemption status from sales and use tax				
* TXI07	662	<b>Relationship Code</b>	O	ID	1/1	Not Used
		<b>Description:</b> Code indicating the relationship between entities				
* TXI08	828	<b>Dollar Basis For Percent</b>	O	R	1/9	Not Used
		<b>Description:</b> Dollar basis to be used in the percent calculation of the allowance, charge or tax				
* TXI09	325	<b>Tax Identification Number</b>	O	AN	1/20	Not Used
		<b>Description:</b> 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	<b>Assigned Identification</b>  <b>Description:</b> 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	<b>Class of Trade Code</b>	O	ID	2/2	Not Used
		<b>Description:</b> Code indicating class of trade				
CTP02	236	<b>Price Identifier Code</b>	C	ID	3/3	Used
		<b>Description:</b> Code identifying pricing specification				
		<u>Code</u> <u>Name</u>				
		CAT Catalog Price				
		CON Contract Price				
		NET Net Item Price				
		PRP Promotional price				
		SLP Suggested List Price				
CTP03	212	<b>Unit Price</b>	O	R	1/17	Used
		<b>Description:</b> Price per unit of product, service, commodity, etc.				
* CTP04	380	<b>Quantity</b>	C	R	1/15	Not Used
		<b>Description:</b> Numeric value of quantity				
* CTP05	C001	<b>Composite Unit of Measure</b>	C	Comp		Not Used
		<b>Description:</b> To identify a composite unit of measure(See Figures Appendix for examples of use)				
*	355	<b>Unit or Basis for Measurement Code</b>	M	ID	2/2	Not Used
		<b>Description:</b> Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken				
*	1018	<b>Exponent</b>	O	R	1/15	Not Used
		<b>Description:</b> Power to which a unit is raised				
*	649	<b>Multiplier</b>	O	R	1/10	Not Used
		<b>Description:</b> Value to be used as a multiplier to obtain a new value				
*	355	<b>Unit or Basis for Measurement Code</b>	O	ID	2/2	Not Used
		<b>Description:</b> 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>
*	1018	<b>Exponent</b> <b>Description:</b> Power to which a unit is raised	O	R	1/15	Not Used
*	649	<b>Multiplier</b> <b>Description:</b> Value to be used as a multiplier to obtain a new value	O	R	1/10	Not Used
*	355	<b>Unit or Basis for Measurement Code</b> <b>Description:</b> Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken	O	ID	2/2	Not Used
*	1018	<b>Exponent</b> <b>Description:</b> Power to which a unit is raised	O	R	1/15	Not Used
*	649	<b>Multiplier</b> <b>Description:</b> Value to be used as a multiplier to obtain a new value	O	R	1/10	Not Used
*	355	<b>Unit or Basis for Measurement Code</b> <b>Description:</b> Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken	O	ID	2/2	Not Used
*	1018	<b>Exponent</b> <b>Description:</b> Power to which a unit is raised	O	R	1/15	Not Used
*	649	<b>Multiplier</b> <b>Description:</b> Value to be used as a multiplier to obtain a new value	O	R	1/10	Not Used
*	355	<b>Unit or Basis for Measurement Code</b> <b>Description:</b> Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken	O	ID	2/2	Not Used
*	1018	<b>Exponent</b> <b>Description:</b> Power to which a unit is raised	O	R	1/15	Not Used
*	649	<b>Multiplier</b> <b>Description:</b> Value to be used as a multiplier to obtain a new value	O	R	1/10	Not Used
CTP06	648	<b>Price Multiplier Qualifier</b> <b>Description:</b> Code indicating the type of price multiplier  <b>Code Name</b> DIS Discount Multiplier	O	ID	3/3	Used
CTP07	649	<b>Multiplier</b> <b>Description:</b> Value to be used as a	C	R	1/10	Used

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
		multiplier to obtain a new value				
* CTP08	782	<b>Monetary Amount</b>	O	R	1/15	Not Used
		<b>Description:</b> Monetary amount				
* CTP09	639	<b>Basis of Unit Price Code</b>	O	ID	2/2	Not Used
		<b>Description:</b> Code identifying the type of unit price for an item				
* CTP10	499	<b>Condition Value</b>	O	AN	1/10	Not Used
		<b>Description:</b> Identifies rate restrictions or provisions				
* CTP11	289	<b>Multiple Price Quantity</b>	O	N0	1/2	Not Used
		<b>Description:</b> 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	<b>Reference Identification Qualifier</b>	M	ID	2/3	Required
		<b>Description:</b> Code Qualifying the Reference Identification				
		<b>Code Name</b>				
		IK Invoice Number				
		<b>Description:</b> <i>Manufacturer's invoice number for vehicle/component</i>				
		PO Purchase Order Number				
N902	127	<b>Reference Identification</b>	C	AN	1/30	Used
		<b>Description:</b> Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier				
N903	369	<b>Free-form Description</b>	C	AN	1/45	Used
		<b>Description:</b> Free-form descriptive text				
* N904	373	<b>Date</b>	O	DT	6/6	Not Used
		<b>Description:</b> Date (YYMMDD)				
* N905	337	<b>Time</b>	C	TM	4/8	Not Used
		<b>Description:</b> Time expressed in 24-hour clock time as follows: HHMM, or HHMMSS, or HHMMSSD, or HHMMSSDD, where H = hours (00-23), M = minutes (00-59), S = integer seconds (00-59) and DD = decimal seconds; decimal seconds are expressed as follows: D = tenths (0-9) and DD = hundredths (00-99)				
* N906	623	<b>Time Code</b>	O	ID	2/2	Not Used
		<b>Description:</b> Code identifying the time. In accordance with International Standards Organization standard 8601, time can be specified by a + or - and an indication in hours in relation to Universal Time Coordinate (UTC) time; since + is a restricted character, + and - are substituted by P and M in the codes that follow				
* N907	C040	<b>Reference Identifier</b>	O	Comp		Not Used
		<b>Description:</b> To identify one or more reference numbers or identification numbers				

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

# 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	<b>Item Description Type</b>	M	ID	1/1	Required
		<b>Description:</b> Code indicating the format of a description <b>All valid standard codes are used.</b>				
PID02	750	<b>Product/Process Characteristic Code</b>	O	ID	2/3	Used
		<b>Description:</b> Code identifying the general class of a product or process characteristic				
PID03	559	<b>Agency Qualifier Code</b>	C	ID	2/2	Used
		<b>Description:</b> Code identifying the agency assigning the code values  <u>Code</u> <u>Name</u> BI   Book Industry Systems Advisory Committee				
PID04	751	<b>Product Description Code</b>	C	AN	1/12	Used
		<b>Description:</b> A code from an industry code list which provides specific data about a product characteristic  <u>Code</u> <u>Name</u> EANN   EAN Is Not On The Book EANY   EAN Is On The Book EAPN   Price Is Not In EAN EAPY   Price Is In EAN PRCN   Price Is Not On The Book PRCY   Price Is On The Book				
PID05	352	<b>Description</b>	C	AN	1/80	Used
		<b>Description:</b> A free-form description to clarify the related data elements and their content				
* PID06	752	<b>Surface/Layer/Position Code</b>	O	ID	2/2	Not Used
		<b>Description:</b> Code indicating the product surface, layer or position that is being described				
* PID07	822	<b>Source Subqualifier</b>	O	AN	1/15	Not Used
		<b>Description:</b> A reference that indicates the table or text maintained by the Source Qualifier				



<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
* PID08	1073	<b>Yes/No Condition or Response Code</b>  <b>Description:</b> Code indicating a Yes or No condition or response	O	ID	1/1	Not Used
* PID09	819	<b>Language Code</b>  <b>Description:</b> Code designating the language used in text, from a standard code list maintained by the International Standards Organization (ISO 639)	O	ID	2/3	Not Used

### 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

# 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	<b>Allowance or Charge Indicator</b>	M	ID	1/1	Required
		<b>Description:</b> Code which indicates an allowance or charge for the service specified				
		<b><u>Code</u> <u>Name</u></b>				
		A Allowance				
		C Charge				
		N No Allowance or Charge				
		P Promotion				
SAC02	1300	<b>Service, Promotion, Allowance, or Charge Code</b>	C	ID	4/4	Used
		<b>Description:</b> Code identifying the service, promotion, allowance, or charge				
		<b><u>Code</u> <u>Name</u></b>				
		A990 Cataloging Services				
		B210 Co-op Credit				
		D200 Freight Charges to Destination				
		E170 Labeling				
		H850 Tax				
* SAC03	559	<b>Agency Qualifier Code</b>	C	ID	2/2	Not Used
		<b>Description:</b> Code identifying the agency assigning the code values				
* SAC04	1301	<b>Agency Service, Promotion, Allowance, or Charge Code</b>	C	AN	1/10	Not Used
		<b>Description:</b> Agency maintained code identifying the service, promotion, allowance, or charge				
SAC05	610	<b>Amount</b>	O	N2	1/15	Used
		<b>Description:</b> Monetary amount				
* SAC06	378	<b>Allowance/ Charge Percent Qualifier</b>	C	ID	1/1	Not Used
		<b>Description:</b> Code indicating on what basis allowance or charge percent is calculated				
* SAC07	332	<b>Percent</b>	C	R	1/6	Not Used

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
		<b>Description:</b> Percent expressed as a percent				
SAC08	118	<b>Rate</b>	O	R	1/9	Used
		<b>Description:</b> Rate expressed in the standard monetary denomination for the currency specified				
SAC09	355	<b>Unit or Basis for Measurement Code</b>	C	ID	2/2	Used
		<b>Description:</b> Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken				
		<b>Code Name</b>				
		EA Each				
		UN Unit				
SAC10	380	<b>Quantity</b>	C	R	1/15	Used
		<b>Description:</b> Numeric value of quantity				
* SAC11	380	<b>Quantity</b>	O	R	1/15	Not Used
		<b>Description:</b> Numeric value of quantity				
SAC12	331	<b>Allowance or Charge Method of Handling Code</b>	O	ID	2/2	Used
		<b>Description:</b> Code indicating method of handling for an allowance or charge				
		<b>Code Name</b>				
		06 Charge to be Paid by Customer				
		09 Allowance To Be Issued by Vendor				
		<b>Description:</b> Code designating vendor as the issuer of an allowance				
* SAC13	127	<b>Reference Identification</b>	C	AN	1/30	Not Used
		<b>Description:</b> Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier				
* SAC14	770	<b>Option Number</b>	O	AN	1/20	Not Used
		<b>Description:</b> A unique number identifying available promotion or allowance options when more than one is offered				
* SAC15	352	<b>Description</b>	O	AN	1/80	Not Used
		<b>Description:</b> A free-form description to clarify the related data elements and their content				

### 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.

# 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	<b>Number of Included Segments</b>	M	N0	1/10	Required
		<b>Description:</b> Total number of segments included in a transaction set including ST and SE segments				
SE02	329	<b>Transaction Set Control Number</b>	M	AN	4/9	Required
		<b>Description:</b> 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.