

857 Shipment and Billing Notice

Functional Group=BS

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

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

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

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

Notes:

- Initial This Pubnet 857 standard, version 3060 is a subset of the full BISAC 857 standard, May 1999 – 3060, version 2
- 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 ordinate to the pack level; however, the tare level may be omitted. When BHT01, Hierarchical Structure Code, contains a value of 0003, the levels of the transaction set are Shipment, Tare (pallet), Pack (carton), Subpack, Order and Item. The levels, when used, must always appear (in the transaction set) in the above order, e.g., the pack level can not be subordinate to the order level, however the pack level may be omitted. BHT03 and BHT04 are mandatory.
- 1/030 HL01 (Hierarchical ID Number) will be assigned sequentially within the hierarchy starting with one and incremented by one for each HL segment. HL02 (Hierarchical Parent ID) will have the value of 0 when used at the Shipment Level. HL03 (Hierarchical Level Code) may only contain the codes: S (Shipment Level), O (Order Level), T (Tare Level), P (Pack Level), Q (Subpack Level), and I (Item Level). 1/040 The BS1 loop may only be used at the Shipment Level. The transaction set shall contain one and only one occurrence of the BS1 loop, Shipment level.
- 1/030 HL01 (Hierarchical ID Number) will be assigned sequentially within the hierarchy starting with one and incremented by one for each HLsegment. HL02 (Hierarchical Parent ID) will have the value of 0 when used at the Shipment Level. HL03 (Hierarchical Level Code) may only contain the codes: S (Shipment Level), O (Order Level), T (Tare Level), P (Pack Level), Q (Subpack Level), and I (Item Level). 1/180 The BS2 loop may only be used at the Order Level. The Transaction Set shall contain at least one occurrence of the BS2 loop, Order Level.
- 1/030 HL01 (Hierarchical ID Number) will be assigned sequentially within the hierarchy starting with one and incremented by one for each HL segment. HL02 (Hierarchical Parent ID) will have the value of 0 when used at the Shipment Level. HL03 (Hierarchical Level Code) may only contain the codes: S (Shipment Level), O (Order Level), T (Tare Level), P (Pack Level), Q (Subpack Level), and I (Item Level).
- 1/300 The BS3 loop may only be used at the Tare (pallet) Level.
- 1/030 HL01 (Hierarchical ID Number) will be assigned sequentially within the hierarchy starting with one and incremented by one for each HL segment. HL02 (Hierarchical Parent ID) will have the value of 0 when used at the Shipment Level. HL03 (Hierarchical Level Code) may only contain the codes: S (Shipment Level), O (Order Level), T (Tare Level), P (Pack Level), Q (Subpack Level), and I (Item Level).
- 1/320 The BS4 loop may only be used at the Pack (carton) and Subpack Levels. The Subpack Level may only be used in conjunction with the Pack Level. LX01 (Assigned Number) will be sequentially assigned starting with one and incremented by one for each LX segment. The LX segment is used to bound the segments for the Pack and Subpack Levels to allow all segments within the loop to be optional. It has no relevance to the application data being sent.
- 1/030 HL01 (Hierarchical ID Number) will be assigned sequentially within the hierarchy starting with one and incremented by one for each HLsegment. HL02 (Hierarchical Parent ID) will have the value of 0 when used at the Shipment Level. HL03 (Hierarchical Level Code) may only contain the codes: S (Shipment Level), O (Order Level), T (Tare Level), P (Pack Level), Q (Subpack Level), and I (Item Level).
- 1/370 The BS5 loop may only be used at the Item Level. There shall be at least one occurrence of the BS5 loop, Item Level within each Order Level.

Comments:

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

Heading:

| <u>Pos</u> | <u>Id</u> | <u>Segment Name</u> | <u>Req</u> | <u>Max Use</u> | <u>Repeat</u> | <u>Notes</u> | <u>Usage</u> |
|-------------------------|-----------|------------------------------------------------------|------------|----------------|------------------|--------------|--------------|
| 010 | ST | Transaction Set Header | M | 1 | | C1/010 | Required |
| 020 | BHT | Beginning of Hierarchical Transaction | M | 1 | | N1/020 | Required |
| LOOP ID - HL - S | | | | | <u>≥1</u> | | |
| 030 | HL | Hierarchical Level - SHIPMENT | M | 1 | | N1/030 | Used |
| LOOP ID - BS1 | | | | | <u>1</u> | | |
| 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 |
| 100 | DTM | Date/Time Reference | O | 5 | | | Used |
| 110 | N9 | Reference Identification | O | 20 | | | Used |
| 130 | CUR | Currency | O | 1 | | | Used |
| LOOP ID - N1 | | | | | <u>10</u> | | |
| 140 | N1 | Name | O | 1 | | | Used |
| LOOP ID - HL - O | | | | | <u>≥1</u> | | |
| 030 | HL | Hierarchical Level - ORDER | M | 1 | | N1/030 | Used |
| LOOP ID - BS2 | | | | | <u>1</u> | | |
| 180 | TDS | Total Monetary Value Summary | O | 1 | | N1/180 | Used |
| 190 | PRF | Purchase Order Reference | O | 1 | | | Used |
| 200 | N9 | Reference Identification | O | >1 | | | Used |
| 220 | ITD | Terms of Sale/Deferred Terms of Sale | O | 5 | | | Used |
| 230 | TXI | Tax Information | O | 10 | | | Used |
| LOOP ID - SAC | | | | | <u>25</u> | | |
| 240 | SAC | Service, Promotion, Allowance, or Charge Information | O | 1 | | | Used |
| LOOP ID - N1 | | | | | <u>10</u> | | |
| 260 | N1 | Name | O | 1 | | | Used |
| LOOP ID - HL - T | | | | | <u>≥1</u> | | |
| 030 | HL | Hierarchical Level - TARE | M | 1 | | N1/030 | Used |
| LOOP ID - BS3 | | | | | <u>1</u> | | |
| 300 | PAL | Pallet Information | O | 1 | | N1/300 | Used |
| 310 | MAN | Marks and Numbers | O | 10 | | | Used |
| LOOP ID - HL - P | | | | | <u>≥1</u> | | |
| 030 | HL | Hierarchical Level - PACK | M | 1 | | N1/030 | Used |
| LOOP ID - BS4 | | | | | <u>1</u> | | |
| 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 |
| LOOP ID - HL - I | | | | | <u>≥1</u> | | |
| 030 | HL | Hierarchical Level - ITEM | M | 1 | | N1/030 | Used |

| LOOP ID - BS5 | | | <u>1</u> | | |
|----------------------|-----|------------------------------------------------------|------------------|----|-------------|
| 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 |
| LOOP ID - SAC | | | <u>25</u> | | |
| 490 | SAC | Service, Promotion, Allowance, or Charge Information | O | 1 | Used |
| 510 | SE | Transaction Set Trailer | M | 1 | Required |

ST Transaction Set Header

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

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

Semantics:

- The transaction set identifier (ST01) used by the translation routines of the interchange partners to select the appropriate transaction set definition (e.g., 857 selects the Shipment and Billing Notice Transaction Set). Element Summary:

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

BHT Beginning of Hierarchical Transaction

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

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

Semantics:

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

Element Summary:

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

HL Hierarchical Level - SHIPMENT

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

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

Comments:

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

Element Summary:

| <u>Ref</u> | <u>Id</u> | <u>Element Name</u> | <u>Req</u> | <u>Type</u> | <u>Min/Max</u> | <u>Usage</u> | | | | | | |
|-------------|------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-------------|----------------|-----------------------------------------------------------|---|------------------------------------------------------------------------|--|--|--|--|
| HL01 | 628 | Hierarchical ID Number Description: A unique number assigned by the sender to identify a particular data segment in a hierarchical structure | M | AN | 1/12 | Required | | | | | | |
| HL02 | 734 | Hierarchical Parent ID Number Description: Identification number of the next higher hierarchical data segment that the data segment being described is subordinate to | O | AN | 1/12 | Used | | | | | | |
| HL03 | 735 | Hierarchical Level Code Description: Code defining the characteristic of a level in a hierarchical structure | M | ID | 1/2 | Required | | | | | | |
| | | <table border="0"> <thead> <tr> <th><u>Code</u></th> <th><u>Name</u></th> </tr> </thead> <tbody> <tr> <td>S</td> <td>Shipment</td> </tr> </tbody> </table> | <u>Code</u> | <u>Name</u> | S | Shipment | | | | | | |
| <u>Code</u> | <u>Name</u> | | | | | | | | | | | |
| S | Shipment | | | | | | | | | | | |
| HL04 | 736 | Hierarchical Child Code Description: Code indicating if there are hierarchical child data segments subordinate to the level being described | O | ID | 1/1 | Used | | | | | | |
| | | <table border="0"> <thead> <tr> <th><u>Code</u></th> <th><u>Name</u></th> </tr> </thead> <tbody> <tr> <td>0</td> <td>No Subordinate HL Segment in This Hierarchical Structure.</td> </tr> <tr> <td>1</td> <td>Additional Subordinate HL Data Segment in This Hierarchical Structure.</td> </tr> </tbody> </table> | <u>Code</u> | <u>Name</u> | 0 | No Subordinate HL Segment in This Hierarchical Structure. | 1 | Additional Subordinate HL Data Segment in This Hierarchical Structure. | | | | |
| <u>Code</u> | <u>Name</u> | | | | | | | | | | | |
| 0 | No Subordinate HL Segment in This Hierarchical Structure. | | | | | | | | | | | |
| 1 | Additional Subordinate HL Data Segment in This Hierarchical Structure. | | | | | | | | | | | |

G05 Total Shipment Information

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

To provide totals relating to the shipment

Syntax:

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

Element Summary:

| <u>Ref</u> | <u>Id</u> | <u>Element Name</u> | <u>Req</u> | <u>Type</u> | <u>Min/Max</u> | <u>Usage</u> | | | | |
|-------------|-------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-------------|----------------|--------------|--|--|--|--|
| G0501 | 382 | Number of Units Shipped Description: Numeric value of units shipped in manufacturer's shipping units for a line item or transaction set | C | R | 1/10 | Used | | | | |
| G0502 | 355 | Unit or Basis for Measurement Code Description: Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken | C | ID | 2/2 | Used | | | | |
| G0503 | 81 | Weight Description: Numeric value of weight | C | R | 1/10 | Used | | | | |
| G0504 | 355 | Unit or Basis for Measurement Code Description: Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken | C | ID | 2/2 | Used | | | | |
| | | <table border="0"> <tr> <td style="text-align: center;"><u>Code</u></td> <td style="text-align: center;"><u>Name</u></td> </tr> <tr> <td style="text-align: center;">LB</td> <td style="text-align: center;">Pound</td> </tr> </table> | <u>Code</u> | <u>Name</u> | LB | Pound | | | | |
| <u>Code</u> | <u>Name</u> | | | | | | | | | |
| LB | Pound | | | | | | | | | |
| G0505 | 183 | Volume Description: Value of volumetric measure | C | R | 1/8 | Used | | | | |
| G0506 | 355 | Unit or Basis for Measurement Code Description: Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken | C | ID | 2/2 | Used | | | | |
| G0507 | 80 | Lading Quantity Description: Number of units (pieces) of the lading commodity | C | N0 | 1/7 | Used | | | | |
| G0508 | 355 | Unit or Basis for Measurement Code Description: Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken | C | ID | 2/2 | Used | | | | |
| | | <table border="0"> <tr> <td style="text-align: center;"><u>Code</u></td> <td style="text-align: center;"><u>Name</u></td> </tr> <tr> <td style="text-align: center;">CT</td> <td style="text-align: center;">Carton</td> </tr> </table> | <u>Code</u> | <u>Name</u> | CT | Carton | | | | |
| <u>Code</u> | <u>Name</u> | | | | | | | | | |
| CT | Carton | | | | | | | | | |

TD1 Carrier Details (Quantity and Weight)

| | |
|--------------------|-------------|
| Pos: 050 | Max: 5 |
| Heading - Optional | |
| Loop: BS1 | Elements: 6 |

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

Syntax:

1. TD101 C0102 -- If TD101 is present, then TD102 is required
2. TD103 C0304 -- If TD103 is present, then TD104 is required
3. TD106 C0607 -- If TD106 is present, then TD107 is required
4. TD107 P0708 -- If either TD107 or TD108 are present, then the others are required.

Element Summary:

| <u>Ref</u> | <u>Id</u> | <u>Element Name</u> | <u>Req</u> | <u>Type</u> | <u>Min/Max</u> | <u>Usage</u> | | | | | | | | | | | | | | | | | | |
|-------------|-------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-------------|----------------|-------------------|-----|--------|-----|----------|-----|--------|-----|------|----|---------------------|----|-------------------------|----|------|--|--|--|--|
| TD101 | 103 | Packaging Code Description: Code identifying the type of packaging; Part 1: Packaging Form, Part 2: Packaging Material | O | AN | 3/5 | Used | | | | | | | | | | | | | | | | | | |
| | | <table border="0"> <thead> <tr> <th><u>Code</u></th> <th><u>Name</u></th> </tr> </thead> <tbody> <tr> <td>CNT</td> <td>Container</td> </tr> <tr> <td>CTN</td> <td>Carton</td> </tr> <tr> <td>ENV</td> <td>Envelope</td> </tr> <tr> <td>PLT</td> <td>Pallet</td> </tr> <tr> <td>UNT</td> <td>Unit</td> </tr> <tr> <td>25</td> <td>Corrugated or Solid</td> </tr> <tr> <td>71</td> <td>Not Otherwise Specified</td> </tr> <tr> <td>94</td> <td>Wood</td> </tr> </tbody> </table> | <u>Code</u> | <u>Name</u> | CNT | Container | CTN | Carton | ENV | Envelope | PLT | Pallet | UNT | Unit | 25 | Corrugated or Solid | 71 | Not Otherwise Specified | 94 | Wood | | | | |
| <u>Code</u> | <u>Name</u> | | | | | | | | | | | | | | | | | | | | | | | |
| CNT | Container | | | | | | | | | | | | | | | | | | | | | | | |
| CTN | Carton | | | | | | | | | | | | | | | | | | | | | | | |
| ENV | Envelope | | | | | | | | | | | | | | | | | | | | | | | |
| PLT | Pallet | | | | | | | | | | | | | | | | | | | | | | | |
| UNT | Unit | | | | | | | | | | | | | | | | | | | | | | | |
| 25 | Corrugated or Solid | | | | | | | | | | | | | | | | | | | | | | | |
| 71 | Not Otherwise Specified | | | | | | | | | | | | | | | | | | | | | | | |
| 94 | Wood | | | | | | | | | | | | | | | | | | | | | | | |
| TD102 | 80 | Lading Quantity Description: Number of units (pieces) of the lading commodity | C | N0 | 1/7 | Used | | | | | | | | | | | | | | | | | | |
| TD103 | 23 | Commodity Code Qualifier Description: Code identifying the commodity coding system used for Commodity Code | O | ID | 1/1 | Used | | | | | | | | | | | | | | | | | | |
| | | <table border="0"> <thead> <tr> <th><u>Code</u></th> <th><u>Name</u></th> </tr> </thead> <tbody> <tr> <td>Z</td> <td>Mutually defined.</td> </tr> </tbody> </table> | <u>Code</u> | <u>Name</u> | Z | Mutually defined. | | | | | | | | | | | | | | | | | | |
| <u>Code</u> | <u>Name</u> | | | | | | | | | | | | | | | | | | | | | | | |
| Z | Mutually defined. | | | | | | | | | | | | | | | | | | | | | | | |
| TD104 | 22 | Commodity Code Description: Code describing a commodity or group of commodities | C | AN | 1/30 | Not Used | | | | | | | | | | | | | | | | | | |
| TD106 | 187 | Weight Qualifier Description: Code defining the type of weight | O | ID | 1/2 | Used | | | | | | | | | | | | | | | | | | |
| | | <table border="0"> <thead> <tr> <th><u>Code</u></th> <th><u>Name</u></th> </tr> </thead> <tbody> <tr> <td>G</td> <td>Gross Weight</td> </tr> </tbody> </table> | <u>Code</u> | <u>Name</u> | G | Gross Weight | | | | | | | | | | | | | | | | | | |
| <u>Code</u> | <u>Name</u> | | | | | | | | | | | | | | | | | | | | | | | |
| G | Gross Weight | | | | | | | | | | | | | | | | | | | | | | | |
| TD107 | 81 | Weight Description: Numeric value of weight | C | R | 1/10 | Used | | | | | | | | | | | | | | | | | | |
| TD108 | 355 | Unit or Basis for Measurement Code Description: Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken | C | ID | 2/2 | Used | | | | | | | | | | | | | | | | | | |

| <u>Ref</u> | <u>Id</u> | <u>Code</u> | <u>Element Name</u> <u>Name</u> | <u>Req</u> | <u>Type</u> | <u>Min/Max</u> | <u>Usage</u> |
|------------|-----------|-------------|------------------------------------|------------|-------------|----------------|--------------|
| | | KG | Kilogram | | | | |
| | | LB | Pound | | | | |

TD5 Carrier Details (Routing Sequence/Transit Time)

| | |
|--------------------|-------------|
| Pos: 080 | Max: 10 |
| Heading - Optional | |
| Loop: BS1 | Elements: 8 |

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

Syntax:

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

Comments:

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

Element Summary:

| <u>Ref</u> | <u>Id</u> | <u>Element Name</u> | <u>Req</u> | <u>Type</u> | <u>Min/Max</u> | <u>Usage</u> | | | | |
|-------------|------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-------------|----------------|------------------------------------|--|--|--|--|
| TD501 | 133 | Routing Sequence Code Description: Code describing the relationship of a carrier to a specific shipment movement | O | ID | 1/2 | Used | | | | |
| | | <table border="0"> <thead> <tr> <th><u>Code</u></th> <th><u>Name</u></th> </tr> </thead> <tbody> <tr> <td>B</td> <td>Origin/Delivery Carrier (Any Mode)</td> </tr> </tbody> </table> | <u>Code</u> | <u>Name</u> | B | Origin/Delivery Carrier (Any Mode) | | | | |
| <u>Code</u> | <u>Name</u> | | | | | | | | | |
| B | Origin/Delivery Carrier (Any Mode) | | | | | | | | | |
| TD502 | 66 | Identification Code Qualifier Description: Code designating the system/method of code structure used for Identification Code (67) | C | ID | 1/2 | Used | | | | |
| | | <table border="0"> <thead> <tr> <th><u>Code</u></th> <th><u>Name</u></th> </tr> </thead> <tbody> <tr> <td>2</td> <td>Standard Carrier Alpha Code (SCAC)</td> </tr> </tbody> </table> | <u>Code</u> | <u>Name</u> | 2 | Standard Carrier Alpha Code (SCAC) | | | | |
| <u>Code</u> | <u>Name</u> | | | | | | | | | |
| 2 | Standard Carrier Alpha Code (SCAC) | | | | | | | | | |
| TD503 | 67 | Identification Code Description: Code identifying a party or other code | C | AN | 2/20 | Used | | | | |
| TD504 | 91 | Transportation Method/Type Code Description: Code specifying the method or type of transportation for the shipment | C | ID | 1/2 | Used | | | | |
| | | <table border="0"> <thead> <tr> <th><u>Code</u></th> <th><u>Name</u></th> </tr> </thead> <tbody> <tr> <td>L</td> <td>Contract Carrier</td> </tr> </tbody> </table> | <u>Code</u> | <u>Name</u> | L | Contract Carrier | | | | |
| <u>Code</u> | <u>Name</u> | | | | | | | | | |
| L | Contract Carrier | | | | | | | | | |
| TD505 | 387 | Routing Description: Free-form description of the routing or requested routing for shipment, or the originating carrier's identity | C | AN | 1/35 | Used | | | | |
| TD506 | 368 | Shipment/Order Status Code Description: Code indicating the status of an order or shipment or the disposition of any difference between the quantity ordered and the quantity shipped for a line item or transaction | C | ID | 2/2 | Used | | | | |
| | | <table border="0"> <thead> <tr> <th><u>Code</u></th> <th><u>Name</u></th> </tr> </thead> </table> | <u>Code</u> | <u>Name</u> | | | | | | |
| <u>Code</u> | <u>Name</u> | | | | | | | | | |

| <u>Ref</u> | <u>Id</u> | <u>Element Name</u> | <u>Req</u> | <u>Type</u> | <u>Min/Max</u> | <u>Usage</u> |
|--------------|------------|----------------------------------------------------------------------------------------|------------|-------------|----------------|--------------|
| | | CC Shipment Complete on (Date) | | | | |
| | | CP Partial Shipment on (Date),Considered No Backorder | | | | |
| | | SS Split Shipment | | | | |
| TD510 | 732 | Transit Time Direction Qualifier | O | ID | 2/2 | Used |
| | | Description: Code specifying the value of time used to measure the transit time | | | | |
| | | <u>Code</u> <u>Name</u> | | | | |
| | | CD Calendar Days (Includes weekends and Holidays) | | | | |
| | | WD Working Days (Excludes weekends and holidays) | | | | |
| TD511 | 733 | Transit Time | C | R | 1/4 | Used |
| | | Description: The numeric amount of transit time | | | | |

DTM Date/Time Reference

| | |
|--------------------|-------------|
| Pos: 100 | Max: 5 |
| Heading - Optional | |
| Loop: BS1 | Elements: 3 |

To specify pertinent dates and times

Syntax:

R020306 -- At least one of DTM02, DTM03 or DTM06 is required.

Element Summary:

| <u>Ref</u> | <u>Id</u> | <u>Element Name</u> | <u>Req</u> | <u>Type</u> | <u>Min/Max</u> | <u>Usage</u> | | | | |
|-------------|-------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-------------|----------------|--------------|--|--|--|--|
| DTM01 | 374 | Date/Time Qualifier Description: Code specifying type of date or time, or both date and time | M | ID | 3/3 | Required | | | | |
| | | <table border="1"> <thead> <tr> <th><u>Code</u></th> <th><u>Name</u></th> </tr> </thead> <tbody> <tr> <td>011</td> <td>Shipped</td> </tr> </tbody> </table> | <u>Code</u> | <u>Name</u> | 011 | Shipped | | | | |
| <u>Code</u> | <u>Name</u> | | | | | | | | | |
| 011 | Shipped | | | | | | | | | |
| DTM02 | 373 | Date Description: Date (YYMMDD) | C | DT | 6/6 | Used | | | | |
| DTM05 | 624 | Century Description: The first two characters in the designation of the year (CCYY) | O | N0 | 2/2 | Required | | | | |

N9

Reference Identification

| | |
|--------------------|-------------|
| Pos: 110 | Max: 20 |
| Heading - Optional | |
| Loop: BS1 | Elements: 3 |

To transmit identifying information as specified by the Reference Identification Qualifier

Syntax:

1. N902 R0203 -- At least one of N902 or N903 is required.

Element Summary:

| <u>Ref</u> | <u>Id</u> | <u>Element Name</u> | <u>Req</u> | <u>Type</u> | <u>Min/Max</u> | <u>Usage</u> | | | | | | | | |
|-------------|------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-------------|----------------|-----------------------|----|------------------------------------------|----|-----------------------------|--|--|--|--|
| N901 | 128 | Reference Identification Qualifier Description: Code Qualifying the Reference Identification | M | ID | 2/3 | Required | | | | | | | | |
| | | <table border="0"> <thead> <tr> <th><u>Code</u></th> <th><u>Name</u></th> </tr> </thead> <tbody> <tr> <td>BM</td> <td>Bill of Lading Number</td> </tr> <tr> <td>CN</td> <td>Carrier's Reference Number (PRO/Invoice)</td> </tr> <tr> <td>MA</td> <td>Ship Notice/Manifest Number</td> </tr> </tbody> </table> | <u>Code</u> | <u>Name</u> | BM | Bill of Lading Number | CN | Carrier's Reference Number (PRO/Invoice) | MA | Ship Notice/Manifest Number | | | | |
| <u>Code</u> | <u>Name</u> | | | | | | | | | | | | | |
| BM | Bill of Lading Number | | | | | | | | | | | | | |
| CN | Carrier's Reference Number (PRO/Invoice) | | | | | | | | | | | | | |
| MA | Ship Notice/Manifest Number | | | | | | | | | | | | | |
| N902 | 127 | Reference Identification Description: Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier | C | AN | 1/30 | Used | | | | | | | | |
| N903 | 369 | Free-form Description Description: Free-form descriptive text | C | AN | 1/45 | Used | | | | | | | | |

CUR Currency

| | |
|--------------------|-------------|
| Pos: 130 | Max: 1 |
| Heading - Optional | |
| Loop: BS1 | Elements: 2 |

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

Element Summary:

| <u>Ref</u> | <u>Id</u> | <u>Element Name</u> | <u>Req</u> | <u>Type</u> | <u>Min/Max</u> | <u>Usage</u> | | | | |
|-------------|---------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-------------|----------------|---------------|--|--|--|--|
| CUR01 | 98 | Entity Identifier Code Description: Code identifying an organizational entity, a physical location, or an individual | M | ID | 2/2 | Required | | | | |
| | | <table border="1"> <thead> <tr> <th><u>Code</u></th> <th><u>Name</u></th> </tr> </thead> <tbody> <tr> <td>SE</td> <td>Selling Party</td> </tr> </tbody> </table> | <u>Code</u> | <u>Name</u> | SE | Selling Party | | | | |
| <u>Code</u> | <u>Name</u> | | | | | | | | | |
| SE | Selling Party | | | | | | | | | |
| CUR02 | 100 | Currency Code Description: Code (Standard ISO) for country in whose currency the charges are specified | M | ID | 3/3 | Required | | | | |

N1

Name

| | |
|--------------------|-------------|
| Pos: 140 | Max: 1 |
| Heading - Optional | |
| Loop: N1 | Elements: 4 |

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

Comments:

- This segment, used alone, provides the most efficient method of providing organizational identification. To obtain this efficiency the "ID Code" (N104) must provide a key to the table maintained by the transaction processing party.

Element Summary:

| <u>Ref</u> | <u>Id</u> | <u>Element Name</u> | <u>Req</u> | <u>Type</u> | <u>Min/Max</u> | <u>Usage</u> | | | | | | | | | | |
|-------------|-------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-------------|----------------|-------------------------------|----|-----------|----|---------|----|--------|--|--|--|--|
| N101 | 98 | Entity Identifier Code Description: Code identifying an organizational entity, a physical location, or an individual | M | ID | 2/2 | Required | | | | | | | | | | |
| | | <table border="0"> <thead> <tr> <th><u>Code</u></th> <th><u>Name</u></th> </tr> </thead> <tbody> <tr> <td>BT</td> <td>Bill-to-Party</td> </tr> <tr> <td>SF</td> <td>Ship From</td> </tr> <tr> <td>ST</td> <td>Ship To</td> </tr> <tr> <td>VN</td> <td>Vendor</td> </tr> </tbody> </table> | <u>Code</u> | <u>Name</u> | BT | Bill-to-Party | SF | Ship From | ST | Ship To | VN | Vendor | | | | |
| <u>Code</u> | <u>Name</u> | | | | | | | | | | | | | | | |
| BT | Bill-to-Party | | | | | | | | | | | | | | | |
| SF | Ship From | | | | | | | | | | | | | | | |
| ST | Ship To | | | | | | | | | | | | | | | |
| VN | Vendor | | | | | | | | | | | | | | | |
| N102 | 93 | Name Description: Free-form name | C | AN | 1/35 | Used | | | | | | | | | | |
| N103 | 66 | Identification Code Qualifier Description: Code designating the system/method of code structure used for Identification Code (67) | C | ID | 1/2 | Used | | | | | | | | | | |
| | | <table border="0"> <thead> <tr> <th><u>Code</u></th> <th><u>Name</u></th> </tr> </thead> <tbody> <tr> <td>15</td> <td>Standard Address Number (SAN)</td> </tr> </tbody> </table> | <u>Code</u> | <u>Name</u> | 15 | Standard Address Number (SAN) | | | | | | | | | | |
| <u>Code</u> | <u>Name</u> | | | | | | | | | | | | | | | |
| 15 | Standard Address Number (SAN) | | | | | | | | | | | | | | | |
| N104 | 67 | Identification Code Description: Code identifying a party or other code | C | AN | 2/20 | Used | | | | | | | | | | |

HL Hierarchical Level - ORDER

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

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

Comments:

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

Element Summary:

| <u>Ref</u> | <u>Id</u> | <u>Element Name</u> | <u>Req</u> | <u>Type</u> | <u>Min/Max</u> | <u>Usage</u> | | | | | | |
|-------------|------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-------------|----------------|-----------------------------------------------------------|---|------------------------------------------------------------------------|--|--|--|--|
| HL01 | 628 | Hierarchical ID Number Description: A unique number assigned by the sender to identify a particular data segment in a hierarchical structure | M | AN | 1/12 | Required | | | | | | |
| HL02 | 734 | Hierarchical Parent ID Number Description: Identification number of the next higher hierarchical data segment that the data segment being described is subordinate to | O | AN | 1/12 | Used | | | | | | |
| HL03 | 735 | Hierarchical Level Code Description: Code defining the characteristic of a level in a hierarchical structure | M | ID | 1/2 | Required | | | | | | |
| | | <table border="0"> <thead> <tr> <th><u>Code</u></th> <th><u>Name</u></th> </tr> </thead> <tbody> <tr> <td>O</td> <td>Order</td> </tr> </tbody> </table> | <u>Code</u> | <u>Name</u> | O | Order | | | | | | |
| <u>Code</u> | <u>Name</u> | | | | | | | | | | | |
| O | Order | | | | | | | | | | | |
| HL04 | 736 | Hierarchical Child Code Description: Code indicating if there are hierarchical child data segments subordinate to the level being described | O | ID | 1/1 | Used | | | | | | |
| | | <table border="0"> <thead> <tr> <th><u>Code</u></th> <th><u>Name</u></th> </tr> </thead> <tbody> <tr> <td>0</td> <td>No Subordinate HL Segment in This Hierarchical Structure.</td> </tr> <tr> <td>1</td> <td>Additional Subordinate HL Data Segment in This Hierarchical Structure.</td> </tr> </tbody> </table> | <u>Code</u> | <u>Name</u> | 0 | No Subordinate HL Segment in This Hierarchical Structure. | 1 | Additional Subordinate HL Data Segment in This Hierarchical Structure. | | | | |
| <u>Code</u> | <u>Name</u> | | | | | | | | | | | |
| 0 | No Subordinate HL Segment in This Hierarchical Structure. | | | | | | | | | | | |
| 1 | Additional Subordinate HL Data Segment in This Hierarchical Structure. | | | | | | | | | | | |

TDS Total Monetary Value Summary

| | |
|--------------------|-------------|
| Pos: 180 | Max: 1 |
| Heading - Optional | |
| Loop: BS2 | Elements: 3 |

To specify the total invoice discounts and amounts

Semantics:

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

Comments:

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

Element Summary:

| <u>Ref</u> | <u>Id</u> | <u>Element Name</u> | <u>Req</u> | <u>Type</u> | <u>Min/Max</u> | <u>Usage</u> |
|------------|-----------|------------------------------------------------------|------------|-------------|----------------|--------------|
| TDS01 | 610 | Amount Description: Monetary amount | M | N2 | 1/15 | Required |
| TDS02 | 610 | Amount Description: Monetary amount | O | N2 | 1/15 | Used |
| TDS03 | 610 | Amount Description: Monetary amount | O | N2 | 1/15 | Used |

PRF Purchase Order Reference

| | |
|--------------------|-------------|
| Pos: 190 | Max: 1 |
| Heading - Optional | |
| Loop: BS2 | Elements: 3 |

To provide reference to a specific purchase order

Semantics:

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

Element Summary:

| <u>Ref</u> | <u>Id</u> | <u>Element Name</u> | <u>Req</u> | <u>Type</u> | <u>Min/Max</u> | <u>Usage</u> |
|------------|-----------|-----------------------------------------------------------------------------------------------------------------------------|------------|-------------|----------------|--------------|
| PRF01 | 324 | Purchase Order Number Description: Identifying number for Purchase Order assigned by the orderer/purchaser | M | AN | 1/22 | Required |
| PRF04 | 373 | Date Description: Date (YYMMDD) | O | DT | 6/6 | Used |
| PRF06 | 367 | Contract Number Description: Contract number | O | AN | 1/30 | Used |

N9 Reference Identification

| | |
|--------------------|-------------|
| Pos: 200 | Max: >1 |
| Heading - Optional | |
| Loop: BS2 | Elements: 3 |

To transmit identifying information as specified by the Reference Identification Qualifier

Syntax:

1. N902 R0203 -- At least one of N902 or N903 is required.

Element Summary:

| <u>Ref</u> | <u>Id</u> | <u>Element Name</u> | <u>Req</u> | <u>Type</u> | <u>Min/Max</u> | <u>Usage</u> | | | | |
|-------------|---------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-------------|----------------|---------------------------|--|--|--|--|
| N901 | 128 | Reference Identification Qualifier Description: Code Qualifying the Reference Identification | M | ID | 2/3 | Required | | | | |
| | | <table border="0"> <thead> <tr> <th><u>Code</u></th> <th><u>Name</u></th> </tr> </thead> <tbody> <tr> <td>IV</td> <td>⌘ Seller's Invoice Number</td> </tr> </tbody> </table> | <u>Code</u> | <u>Name</u> | IV | ⌘ Seller's Invoice Number | | | | |
| <u>Code</u> | <u>Name</u> | | | | | | | | | |
| IV | ⌘ Seller's Invoice Number | | | | | | | | | |
| N902 | 127 | Reference Identification Description: Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier | C | AN | 1/30 | Used | | | | |
| N904 | 373 | Date Description: Date (YYMMDD) | O | DT | 6/6 | Used | | | | |

ITD

Terms of Sale/Deferred Terms of Sale

| | |
|--------------------|--------------|
| Pos: 220 | Max: 5 |
| Heading - Optional | |
| Loop: BS2 | Elements: 10 |

To specify terms of sale

Syntax:

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

Comments:

1. If the code in ITD01 is "05", then ITD06 or ITD07 is required.

Element Summary:

| <u>Ref</u> | <u>Id</u> | <u>Element Name</u> | <u>Req</u> | <u>Type</u> | <u>Min/Max</u> | <u>Usage</u> | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------|-----------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-------------|----------------|--------------|----|--------------------|----|----------------|----|---------------------------|----|----------|----|-------------------------------------|----|------------------------|----|-----------------------------------------|----|---------------------------|----|-------------|----|-----------|--|--|--|--|
| ITD01 | 336 | Terms Type Code Description: Code identifying type of payment terms | O | ID | 2/2 | Used | | | | | | | | | | | | | | | | | | | | | | | | |
| | | <table border="1"> <thead> <tr> <th><u>Code</u></th> <th><u>Name</u></th> </tr> </thead> <tbody> <tr><td>01</td><td>Basic</td></tr> <tr><td>02</td><td>End of Month (EOM)</td></tr> <tr><td>03</td><td>Fixed Date</td></tr> <tr><td>05</td><td>Discount Not Applicable</td></tr> <tr><td>07</td><td>Extended</td></tr> <tr><td>12</td><td>10 Days After End of Month (10 EOM)</td></tr> <tr><td>14</td><td>Previously agreed upon</td></tr> <tr><td>18</td><td>Fixed Date,Late Payment Penalty Applies</td></tr> <tr><td>22</td><td>Cash Discount Terms Apply</td></tr> <tr><td>CO</td><td>Consignment</td></tr> <tr><td>NC</td><td>No Charge</td></tr> </tbody> </table> | <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 | 22 | Cash Discount Terms Apply | CO | Consignment | NC | No Charge | | | | |
| <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 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 22 | Cash Discount Terms Apply | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CO | Consignment | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| NC | No Charge | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ITD02 | 333 | Terms Basis Date Code Description: Code identifying the beginning of the terms period | O | ID | 1/2 | Used | | | | | | | | | | | | | | | | | | | | | | | | |
| | | <table border="1"> <thead> <tr> <th><u>Code</u></th> <th><u>Name</u></th> </tr> </thead> <tbody> <tr><td>1</td><td>Ship Date</td></tr> <tr><td>3</td><td>Invoice Date</td></tr> <tr><td>4</td><td>Specified Date</td></tr> <tr><td>8</td><td>Invoice Transmission Date</td></tr> </tbody> </table> | <u>Code</u> | <u>Name</u> | 1 | Ship Date | 3 | Invoice Date | 4 | Specified Date | 8 | Invoice Transmission Date | | | | | | | | | | | | | | | | | | |
| <u>Code</u> | <u>Name</u> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | Ship Date | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | Invoice Date | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | Specified Date | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8 | Invoice Transmission Date | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ITD03 | 338 | Terms Discount Percent Description: Terms discount percentage, expressed as a percent, available to the purchaser if an invoice is paid on or before the Terms Discount Due Date | O | R | 1/6 | Used | | | | | | | | | | | | | | | | | | | | | | | | |
| ITD04 | 370 | Terms Discount Due Date Description: Date payment is due if discount is to be earned | C | DT | 6/6 | Used | | | | | | | | | | | | | | | | | | | | | | | | |
| ITD05 | 351 | Terms Discount Days Due Description: 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 | Terms Net Due Date Description: Date when total invoice amount becomes due | O | DT | 6/6 | Used | | | | | | | | | | | | | | | | | | | | | | | | |

| <u>Ref</u> | <u>Id</u> | <u>Element Name</u> | <u>Req</u> | <u>Type</u> | <u>Min/Max</u> | <u>Usage</u> |
|------------|-----------|--------------------------------------------------------------------------------------------------------------------------------------------------|------------|-------------|----------------|--------------|
| ITD07 | 386 | Terms Net Days Description: Number of days until total invoice amount is due (discount not applicable) | O | N0 | 1/3 | Used |
| ITD08 | 362 | Terms Discount Amount Description: Total amount of terms discount | O | N2 | 1/10 | Used |
| ITD13 | 765 | Day of Month Description: 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 | Payment Method Code Description: Code identifying type of payment procedures | O | ID | 1/1 | Used |

| <u>Code</u> | <u>Name</u> |
|-------------|---------------------------|
| C | Pay By Check |
| E | Electronic Payment System |
| L | Letter of Credit |

TXI Tax Information

| | |
|--------------------|-------------|
| Pos: 230 | Max: 10 |
| Heading - Optional | |
| Loop: BS2 | Elements: 3 |

To specify tax information

Syntax:

1. TXI02 R020306 -- At least one of TXI02, TXI03 or TXI06 is required.

Comments:

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

Element Summary:

| <u>Ref</u> | <u>Id</u> | <u>Element Name</u> | <u>Req</u> | <u>Type</u> | <u>Min/Max</u> | <u>Usage</u> | | | | | | | | | | | | |
|-------------|-------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-------------|----------------|------------------------|----|---------------------------|----|----------------------------------|----|-------------------------------------|----|-----------|--|--|--|--|
| TXI01 | 963 | Tax Type Code Description: Code specifying the type of tax | M | ID | 2/2 | Required | | | | | | | | | | | | |
| | | <table border="1"> <thead> <tr> <th><u>Code</u></th> <th><u>Name</u></th> </tr> </thead> <tbody> <tr> <td>GS</td> <td>Goods and Services Tax</td> </tr> <tr> <td>LS</td> <td>State and Local Sales Tax</td> </tr> <tr> <td>PG</td> <td>State or Provincial Tax on Goods</td> </tr> <tr> <td>PS</td> <td>State or Provincial Tax on Services</td> </tr> <tr> <td>TX</td> <td>All Taxes</td> </tr> </tbody> </table> | <u>Code</u> | <u>Name</u> | GS | Goods and Services Tax | LS | State and Local Sales Tax | PG | State or Provincial Tax on Goods | PS | State or Provincial Tax on Services | TX | All Taxes | | | | |
| <u>Code</u> | <u>Name</u> | | | | | | | | | | | | | | | | | |
| GS | Goods and Services Tax | | | | | | | | | | | | | | | | | |
| LS | State and Local Sales Tax | | | | | | | | | | | | | | | | | |
| PG | State or Provincial Tax on Goods | | | | | | | | | | | | | | | | | |
| PS | State or Provincial Tax on Services | | | | | | | | | | | | | | | | | |
| TX | All Taxes | | | | | | | | | | | | | | | | | |
| TXI02 | 782 | Monetary Amount Description: Monetary amount | C | R | 1/15 | Used | | | | | | | | | | | | |
| TXI03 | 954 | Percent Description: Percentage expressed as a decimal | C | R | 1/10 | Used | | | | | | | | | | | | |

SAC Service, Promotion, Allowance, or Charge Information

| | |
|--------------------|-------------|
| Pos: 240 | Max: 1 |
| Heading - Optional | |
| Loop: SAC | Elements: 7 |

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

Syntax:

1. SAC02 R0203 -- At least one of SAC02 or SAC03 is required.
2. SAC09 P0910 -- If either SAC09 or SAC10 are present, then the others are required.

Semantics:

1. If SAC01 is "A" or "C", then at least one of SAC05 or SAC08 is required.
2. SAC05 is the total amount for the service, promotion, allowance, or charge.
3. If SAC05 is present with SAC08, then SAC05 takes precedence.
4. SAC08 is the allowance or charge rate per unit.
5. SAC10 and is the quantity basis when the allowance or charge quantity is different from the purchase order or invoice 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> | | | | | | | | | | | | | | | | |
|-------------|--------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-------------|----------------|---------------------|------|--------------|------|--------------------------------|------|---------------------|------|----------|------|-----------------------|------|-----|--|--|--|--|
| SAC01 | 248 | Allowance or Charge Indicator Description: Code which indicates an allowance or charge for the service specified | M | ID | 1/1 | Required | | | | | | | | | | | | | | | | |
| | | <table border="1"> <thead> <tr> <th><u>Code</u></th> <th><u>Name</u></th> </tr> </thead> <tbody> <tr> <td>A</td> <td>Allowance</td> </tr> <tr> <td>C</td> <td>Charge</td> </tr> <tr> <td>P</td> <td>Promotion</td> </tr> </tbody> </table> | <u>Code</u> | <u>Name</u> | A | Allowance | C | Charge | P | Promotion | | | | | | | | | | | | |
| <u>Code</u> | <u>Name</u> | | | | | | | | | | | | | | | | | | | | | |
| A | Allowance | | | | | | | | | | | | | | | | | | | | | |
| C | Charge | | | | | | | | | | | | | | | | | | | | | |
| P | Promotion | | | | | | | | | | | | | | | | | | | | | |
| SAC02 | 1300 | Service, Promotion, Allowance, or Charge Code Description: Code identifying the service, promotion, allowance, or charge | C | ID | 4/4 | Used | | | | | | | | | | | | | | | | |
| | | <table border="1"> <thead> <tr> <th><u>Code</u></th> <th><u>Name</u></th> </tr> </thead> <tbody> <tr> <td>A990</td> <td>Cataloging Services</td> </tr> <tr> <td>B210</td> <td>Co-op Credit</td> </tr> <tr> <td>D200</td> <td>Freight Charges to Destination</td> </tr> <tr> <td>D220</td> <td>Freight Passthrough</td> </tr> <tr> <td>E170</td> <td>Labeling</td> </tr> <tr> <td>F800</td> <td>Promotional Allowance</td> </tr> <tr> <td>H850</td> <td>Tax</td> </tr> </tbody> </table> | <u>Code</u> | <u>Name</u> | A990 | Cataloging Services | B210 | Co-op Credit | D200 | Freight Charges to Destination | D220 | Freight Passthrough | E170 | Labeling | F800 | Promotional Allowance | H850 | Tax | | | | |
| <u>Code</u> | <u>Name</u> | | | | | | | | | | | | | | | | | | | | | |
| A990 | Cataloging Services | | | | | | | | | | | | | | | | | | | | | |
| B210 | Co-op Credit | | | | | | | | | | | | | | | | | | | | | |
| D200 | Freight Charges to Destination | | | | | | | | | | | | | | | | | | | | | |
| D220 | Freight Passthrough | | | | | | | | | | | | | | | | | | | | | |
| E170 | Labeling | | | | | | | | | | | | | | | | | | | | | |
| F800 | Promotional Allowance | | | | | | | | | | | | | | | | | | | | | |
| H850 | Tax | | | | | | | | | | | | | | | | | | | | | |
| SAC05 | 610 | Amount Description: Monetary amount | O | N2 | 1/15 | Used | | | | | | | | | | | | | | | | |
| SAC08 | 118 | Rate Description: Rate expressed in the standard monetary denomination for the currency specified | O | R | 1/9 | Used | | | | | | | | | | | | | | | | |
| SAC09 | 355 | Unit or Basis for Measurement Code Description: Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken | C | ID | 2/2 | Used | | | | | | | | | | | | | | | | |
| | | <table border="1"> <thead> <tr> <th><u>Code</u></th> <th><u>Name</u></th> </tr> </thead> <tbody> </tbody> </table> | <u>Code</u> | <u>Name</u> | | | | | | | | | | | | | | | | | | |
| <u>Code</u> | <u>Name</u> | | | | | | | | | | | | | | | | | | | | | |

| <u>Ref</u> | <u>Id</u> | <u>Element Name</u> | <u>Req</u> | <u>Type</u> | <u>Min/Max</u> | <u>Usage</u> |
|------------|-----------|----------------------------------------------------------------------------------------------------------------------------------|------------|-------------|----------------|--------------|
| | | UN <u>Unit</u> | | | | |
| SAC10 | 380 | Quantity Description: Numeric value of quantity | C | R | 1/15 | Used |
| SAC12 | 331 | Allowance or Charge Method of Handling Code Description: Code indicating method of handling for an allowance or charge | O | ID | 2/2 | Used |

| <u>Code</u> | <u>Name</u> |
|-------------|-----------------------------------------|
| 06 | <u>Charge to be Paid by Customer</u> |
| 09 | <u>Allowance To Be Issued by Vendor</u> |

N1

Name

| | |
|--------------------|-------------|
| Pos: 260 | Max: 1 |
| Heading - Optional | |
| Loop: N1 | Elements: 4 |

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

Syntax:

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

Comments:

1. This segment, used alone, provides the most efficient method of providing organizational identification. To obtain this efficiency the "ID Code" (N104) must provide a key to the table maintained by the transaction processing party.

Element Summary:

| <u>Ref</u> | <u>Id</u> | <u>Element Name</u> | <u>Req</u> | <u>Type</u> | <u>Min/Max</u> | <u>Usage</u> | | | | | | | | | | |
|-------------|-------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-------------|----------------|-------------------------------|----|-----------|----|---------|----|--------|--|--|--|--|
| N101 | 98 | Entity Identifier Code Description: Code identifying an organizational entity, a physical location, or an individual | M | ID | 2/2 | Required | | | | | | | | | | |
| | | <table border="0"> <thead> <tr> <th><u>Code</u></th> <th><u>Name</u></th> </tr> </thead> <tbody> <tr> <td>BT</td> <td>Bill-to-Party</td> </tr> <tr> <td>SF</td> <td>Ship From</td> </tr> <tr> <td>ST</td> <td>Ship To</td> </tr> <tr> <td>VN</td> <td>Vendor</td> </tr> </tbody> </table> | <u>Code</u> | <u>Name</u> | BT | Bill-to-Party | SF | Ship From | ST | Ship To | VN | Vendor | | | | |
| <u>Code</u> | <u>Name</u> | | | | | | | | | | | | | | | |
| BT | Bill-to-Party | | | | | | | | | | | | | | | |
| SF | Ship From | | | | | | | | | | | | | | | |
| ST | Ship To | | | | | | | | | | | | | | | |
| VN | Vendor | | | | | | | | | | | | | | | |
| N102 | 93 | Name Description: Free-form name | C | AN | 1/35 | Used | | | | | | | | | | |
| N103 | 66 | Identification Code Qualifier Description: Code designating the system/method of code structure used for Identification Code (67) | C | ID | 1/2 | Used | | | | | | | | | | |
| | | <table border="0"> <thead> <tr> <th><u>Code</u></th> <th><u>Name</u></th> </tr> </thead> <tbody> <tr> <td>15</td> <td>Standard Address Number (SAN)</td> </tr> </tbody> </table> | <u>Code</u> | <u>Name</u> | 15 | Standard Address Number (SAN) | | | | | | | | | | |
| <u>Code</u> | <u>Name</u> | | | | | | | | | | | | | | | |
| 15 | Standard Address Number (SAN) | | | | | | | | | | | | | | | |
| N104 | 67 | Identification Code Description: Code identifying a party or other code | C | AN | 2/20 | Used | | | | | | | | | | |

HL Hierarchical Level - TARE

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

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

Comments:

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

Element Summary:

| <u>Ref</u> | <u>Id</u> | <u>Element Name</u> | <u>Req</u> | <u>Type</u> | <u>Min/Max</u> | <u>Usage</u> | | | | | | |
|-------------|------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-------------|----------------|-----------------------------------------------------------|---|------------------------------------------------------------------------|--|--|--|--|
| HL01 | 628 | Hierarchical ID Number Description: A unique number assigned by the sender to identify a particular data segment in a hierarchical structure | M | AN | 1/12 | Required | | | | | | |
| HL02 | 734 | Hierarchical Parent ID Number Description: Identification number of the next higher hierarchical data segment that the data segment being described is subordinate to | O | AN | 1/12 | Used | | | | | | |
| HL03 | 735 | Hierarchical Level Code Description: Code defining the characteristic of a level in a hierarchical structure | M | ID | 1/2 | Required | | | | | | |
| | | <table border="0"> <thead> <tr> <th><u>Code</u></th> <th><u>Name</u></th> </tr> </thead> <tbody> <tr> <td>T</td> <td>Shipping Tare</td> </tr> </tbody> </table> | <u>Code</u> | <u>Name</u> | T | Shipping Tare | | | | | | |
| <u>Code</u> | <u>Name</u> | | | | | | | | | | | |
| T | Shipping Tare | | | | | | | | | | | |
| HL04 | 736 | Hierarchical Child Code Description: Code indicating if there are hierarchical child data segments subordinate to the level being described | O | ID | 1/1 | Used | | | | | | |
| | | <table border="0"> <thead> <tr> <th><u>Code</u></th> <th><u>Name</u></th> </tr> </thead> <tbody> <tr> <td>0</td> <td>No Subordinate HL Segment in This Hierarchical Structure.</td> </tr> <tr> <td>1</td> <td>Additional Subordinate HL Data Segment in This Hierarchical Structure.</td> </tr> </tbody> </table> | <u>Code</u> | <u>Name</u> | 0 | No Subordinate HL Segment in This Hierarchical Structure. | 1 | Additional Subordinate HL Data Segment in This Hierarchical Structure. | | | | |
| <u>Code</u> | <u>Name</u> | | | | | | | | | | | |
| 0 | No Subordinate HL Segment in This Hierarchical Structure. | | | | | | | | | | | |
| 1 | Additional Subordinate HL Data Segment in This Hierarchical Structure. | | | | | | | | | | | |

PAL Pallet Information

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

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

Element Summary:

| <u>Ref</u> | <u>Id</u> | <u>Element Name</u> | <u>Req</u> | <u>Type</u> | <u>Min/Max</u> | <u>Usage</u> |
|------------|-----------|---------------------|------------|-------------|----------------|--------------|
| PAL01 | 883 | Pallet Type Code | O | ID | 1/2 | Used |

Description: Code indicating the type of pallet

| | <u>Code</u> | <u>Name</u> |
|---|-------------|-------------|
| 4 | Standard | |
| 6 | Wood | |

MAN Marks and Numbers

| | |
|--------------------|-------------|
| Pos: 310 | Max: 10 |
| Heading - Optional | |
| Loop: BS3 | Elements: 2 |

To indicate identifying marks and numbers for shipping containers

Element Summary:

| <u>Ref</u> | <u>Id</u> | <u>Element Name</u> | <u>Req</u> | <u>Type</u> | <u>Min/Max</u> | <u>Usage</u> | | | | |
|-------------|---------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-------------|----------------|---------------------------------------------------|--|--|--|--|
| MAN01 | 88 | Marks and Numbers Qualifier Description: Code specifying the application or source of Marks and Numbers (87) | M | ID | 1/2 | Required | | | | |
| | | <table border="1"> <thead> <tr> <th><u>Code</u></th> <th><u>Name</u></th> </tr> </thead> <tbody> <tr> <td>GM</td> <td>UCC/EAN-128 Serial Shipping Container Code Format</td> </tr> </tbody> </table> | <u>Code</u> | <u>Name</u> | GM | UCC/EAN-128 Serial Shipping Container Code Format | | | | |
| <u>Code</u> | <u>Name</u> | | | | | | | | | |
| GM | UCC/EAN-128 Serial Shipping Container Code Format | | | | | | | | | |
| MAN02 | 87 | Marks and Numbers Description: Marks and numbers used to identify a shipment or parts of a shipment | M | AN | 1/48 | Required | | | | |

HL Hierarchical Level - PACK

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

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

Comments:

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

Element Summary:

| <u>Ref</u> | <u>Id</u> | <u>Element Name</u> | <u>Req</u> | <u>Type</u> | <u>Min/Max</u> | <u>Usage</u> | | | | | | |
|-------------|------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-------------|----------------|------------------------------------------------------------|---|------------------------------------------------------------------------|--|--|--|--|
| HL01 | 628 | Hierarchical ID Number Description: A unique number assigned by the sender to identify a particular data segment in a hierarchical structure | M | AN | 1/12 | Required | | | | | | |
| HL02 | 734 | Hierarchical Parent ID Number Description: Identification number of the next higher hierarchical data segment that the data segment being described is subordinate to | O | AN | 1/12 | Used | | | | | | |
| HL03 | 735 | Hierarchical Level Code Description: Code defining the characteristic of a level in a hierarchical structure | M | ID | 1/2 | Required | | | | | | |
| | | <table border="0"> <thead> <tr> <th><u>Code</u></th> <th><u>Name</u></th> </tr> </thead> <tbody> <tr> <td>P</td> <td>̄Pack</td> </tr> </tbody> </table> | <u>Code</u> | <u>Name</u> | P | ̄Pack | | | | | | |
| <u>Code</u> | <u>Name</u> | | | | | | | | | | | |
| P | ̄Pack | | | | | | | | | | | |
| HL04 | 736 | Hierarchical Child Code Description: Code indicating if there are hierarchical child data segments subordinate to the level being described | O | ID | 1/1 | Used | | | | | | |
| | | <table border="0"> <thead> <tr> <th><u>Code</u></th> <th><u>Name</u></th> </tr> </thead> <tbody> <tr> <td>0</td> <td>̄No Subordinate HL Segment in This Hierarchical Structure.</td> </tr> <tr> <td>1</td> <td>Additional Subordinate HL Data Segment in This Hierarchical Structure.</td> </tr> </tbody> </table> | <u>Code</u> | <u>Name</u> | 0 | ̄No Subordinate HL Segment in This Hierarchical Structure. | 1 | Additional Subordinate HL Data Segment in This Hierarchical Structure. | | | | |
| <u>Code</u> | <u>Name</u> | | | | | | | | | | | |
| 0 | ̄No Subordinate HL Segment in This Hierarchical Structure. | | | | | | | | | | | |
| 1 | Additional Subordinate HL Data Segment in This Hierarchical Structure. | | | | | | | | | | | |

LX

Assigned Number

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

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: 10 |

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

Syntax:

1. PO405 C0506 -- If PO405 is present, then PO406 is required
2. PO406 P0607 -- If either PO406 or PO407 are present, then the others are required.
3. PO410 C1013 -- If PO410 is present, then PO413 is required
4. PO411 C1113 -- If PO411 is present, then PO413 is required
5. PO412 C1213 -- If PO412 is present, then PO413 is required
6. PO413 L13101112 -- If PO413 is present, then at least one of PO410, PO411 or PO412 is required.

Comments:

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

Element Summary:

| <u>Ref</u> | <u>Id</u> | <u>Element Name</u> | <u>Req</u> | <u>Type</u> | <u>Min/Max</u> | <u>Usage</u> | | | | | | |
|-------------|---------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-------------|----------------|--------------|----|---------------------|--|--|--|--|
| PO401 | 356 | Pack Description: Number of inner pack units per outer pack unit | O | N0 | 1/6 | Used | | | | | | |
| PO403 | 355 | Unit or Basis for Measurement Code Description: Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken | C | ID | 2/2 | Used | | | | | | |
| | | <table border="0"> <thead> <tr> <th><u>Code</u></th> <th><u>Name</u></th> </tr> </thead> <tbody> <tr> <td>CT</td> <td>Carton</td> </tr> </tbody> </table> | <u>Code</u> | <u>Name</u> | CT | Carton | | | | | | |
| <u>Code</u> | <u>Name</u> | | | | | | | | | | | |
| CT | Carton | | | | | | | | | | | |
| PO404 | 103 | Packaging Code Description: Code identifying the type of packaging; Part 1: Packaging Form, Part 2: Packaging Material Value is CTN25 | C | AN | 3/5 | Used | | | | | | |
| | | <table border="0"> <thead> <tr> <th><u>Code</u></th> <th><u>Name</u></th> </tr> </thead> <tbody> <tr> <td>CTN</td> <td>Carton</td> </tr> <tr> <td>25</td> <td>Corrugated or Solid</td> </tr> </tbody> </table> | <u>Code</u> | <u>Name</u> | CTN | Carton | 25 | Corrugated or Solid | | | | |
| <u>Code</u> | <u>Name</u> | | | | | | | | | | | |
| CTN | Carton | | | | | | | | | | | |
| 25 | Corrugated or Solid | | | | | | | | | | | |
| PO405 | 187 | Weight Qualifier Description: Code defining the type of weight | O | ID | 1/2 | Used | | | | | | |
| | | <table border="0"> <thead> <tr> <th><u>Code</u></th> <th><u>Name</u></th> </tr> </thead> <tbody> <tr> <td>G</td> <td>Gross Weight</td> </tr> </tbody> </table> | <u>Code</u> | <u>Name</u> | G | Gross Weight | | | | | | |
| <u>Code</u> | <u>Name</u> | | | | | | | | | | | |
| G | Gross Weight | | | | | | | | | | | |
| PO406 | 384 | Gross Weight per Pack Description: Numeric value of gross weight per pack | C | R | 1/9 | Used | | | | | | |
| PO407 | 355 | Unit or Basis for Measurement Code Description: Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken | C | ID | 2/2 | Used | | | | | | |

| <u>Ref</u> | <u>Id</u> | <u>Element Name</u> | <u>Req</u> | <u>Type</u> | <u>Min/Max</u> | <u>Usage</u> | | | | | | | | | |
|------------|-------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|-------------|----------------|--------------|----|------------|--|----|-------|--|--|--|--|
| | | <table border="0"> <tr> <td></td> <td><u>Code</u></td> <td><u>Name</u></td> </tr> <tr> <td></td> <td>KG</td> <td>Kilogram</td> </tr> <tr> <td></td> <td>LB</td> <td>Pound</td> </tr> </table> | | <u>Code</u> | <u>Name</u> | | KG | Kilogram | | LB | Pound | | | | |
| | <u>Code</u> | <u>Name</u> | | | | | | | | | | | | | |
| | KG | Kilogram | | | | | | | | | | | | | |
| | LB | Pound | | | | | | | | | | | | | |
| PO410 | 82 | Length Description: Largest horizontal dimension of an object measured when the object is in the upright position | C | R | 1/8 | Used | | | | | | | | | |
| PO411 | 189 | Width Description: Shorter measurement of the two horizontal dimensions measured with the object in the upright position | C | R | 1/8 | Used | | | | | | | | | |
| PO412 | 65 | Height Description: Vertical dimension of an object measured when the object is in the upright position | C | R | 1/8 | Used | | | | | | | | | |
| PO413 | 355 | Unit or Basis for Measurement Code Description: Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken | C | ID | 2/2 | Used | | | | | | | | | |
| | | <table border="0"> <tr> <td></td> <td><u>Code</u></td> <td><u>Name</u></td> </tr> <tr> <td></td> <td>CM</td> <td>Centimeter</td> </tr> <tr> <td></td> <td>IN</td> <td>Inch</td> </tr> </table> | | <u>Code</u> | <u>Name</u> | | CM | Centimeter | | IN | Inch | | | | |
| | <u>Code</u> | <u>Name</u> | | | | | | | | | | | | | |
| | CM | Centimeter | | | | | | | | | | | | | |
| | IN | Inch | | | | | | | | | | | | | |

MAN Marks and Numbers

| | |
|--------------------|-------------|
| Pos: 360 | Max: 10 |
| Heading - Optional | |
| Loop: BS4 | Elements: 2 |

To indicate identifying marks and numbers for shipping containers

Element Summary:

| <u>Ref</u> | <u>Id</u> | <u>Element Name</u> | <u>Req</u> | <u>Type</u> | <u>Min/Max</u> | <u>Usage</u> | | | | |
|-------------|---------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-------------|----------------|---------------------------------------------------|--|--|--|--|
| MAN01 | 88 | Marks and Numbers Qualifier Description: Code specifying the application or source of Marks and Numbers (87) | M | ID | 1/2 | Required | | | | |
| | | <table border="1"> <thead> <tr> <th><u>Code</u></th> <th><u>Name</u></th> </tr> </thead> <tbody> <tr> <td>GM</td> <td>UCC/EAN-128 Serial Shipping Container Code Format</td> </tr> </tbody> </table> | <u>Code</u> | <u>Name</u> | GM | UCC/EAN-128 Serial Shipping Container Code Format | | | | |
| <u>Code</u> | <u>Name</u> | | | | | | | | | |
| GM | UCC/EAN-128 Serial Shipping Container Code Format | | | | | | | | | |
| MAN02 | 87 | Marks and Numbers Description: Marks and numbers used to identify a shipment or parts of a shipment | M | AN | 1/48 | Required | | | | |

HL Hierarchical Level - ITEM

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

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

Comments:

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

Element Summary:

| <u>Ref</u> | <u>Id</u> | <u>Element Name</u> | <u>Req</u> | <u>Type</u> | <u>Min/Max</u> | <u>Usage</u> | | | | | | |
|-------------|------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-------------|----------------|-----------------------------------------------------------|---|------------------------------------------------------------------------|--|--|--|--|
| HL01 | 628 | Hierarchical ID Number Description: A unique number assigned by the sender to identify a particular data segment in a hierarchical structure | M | AN | 1/12 | Required | | | | | | |
| HL02 | 734 | Hierarchical Parent ID Number Description: Identification number of the next higher hierarchical data segment that the data segment being described is subordinate to | O | AN | 1/12 | Used | | | | | | |
| HL03 | 735 | Hierarchical Level Code Description: Code defining the characteristic of a level in a hierarchical structure | M | ID | 1/2 | Required | | | | | | |
| | | <table border="0"> <thead> <tr> <th><u>Code</u></th> <th><u>Name</u></th> </tr> </thead> <tbody> <tr> <td>I</td> <td>Item</td> </tr> </tbody> </table> | <u>Code</u> | <u>Name</u> | I | Item | | | | | | |
| <u>Code</u> | <u>Name</u> | | | | | | | | | | | |
| I | Item | | | | | | | | | | | |
| HL04 | 736 | Hierarchical Child Code Description: Code indicating if there are hierarchical child data segments subordinate to the level being described | O | ID | 1/1 | Used | | | | | | |
| | | <table border="0"> <thead> <tr> <th><u>Code</u></th> <th><u>Name</u></th> </tr> </thead> <tbody> <tr> <td>0</td> <td>No Subordinate HL Segment in This Hierarchical Structure.</td> </tr> <tr> <td>1</td> <td>Additional Subordinate HL Data Segment in This Hierarchical Structure.</td> </tr> </tbody> </table> | <u>Code</u> | <u>Name</u> | 0 | No Subordinate HL Segment in This Hierarchical Structure. | 1 | Additional Subordinate HL Data Segment in This Hierarchical Structure. | | | | |
| <u>Code</u> | <u>Name</u> | | | | | | | | | | | |
| 0 | No Subordinate HL Segment in This Hierarchical Structure. | | | | | | | | | | | |
| 1 | Additional Subordinate HL Data Segment in This Hierarchical Structure. | | | | | | | | | | | |

IT1 Baseline Item Data (Invoice)

| | |
|--------------------|--------------|
| Pos: 370 | Max: 1 |
| Heading - Optional | |
| Loop: BS5 | Elements: 11 |

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

Syntax:

- P020304 -- If either IT102, IT103 or IT104 are present, then the others are required.
- P0607 -- If either IT106 or IT107 are present, then the others are required.
- P0809 -- If either IT108 or IT109 are present, then the others are required.
- P1011 -- If either IT110 or IT111 are present, then the others are required.

Semantics:

1. IT101 is the purchase order line item identification.

Comments:

1. Element 235/234 combinations should be interpreted to include products and/or services.
2. IT106 through IT111 provide for three different product/service IDs for each 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> | | | | | | | | |
|-------------|----------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-------------|----------------|-------------------------------------------|----|----------------------------------------------------------------|----|-------------------------------------------------------|--|--|--|--|
| IT101 | 350 | Assigned Identification Description: Alphanumeric characters assigned for differentiation within a transaction set | O | AN | 1/20 | Used | | | | | | | | |
| IT102 | 358 | Quantity Invoiced Description: Number of units invoiced (supplier units) | C | R | 1/10 | Used | | | | | | | | |
| IT103 | 355 | Unit or Basis for Measurement Code Description: Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken | C | ID | 2/2 | Used | | | | | | | | |
| | | <table border="0"> <tr> <td style="text-align: center;"><u>Code</u></td> <td style="text-align: center;"><u>Name</u></td> </tr> <tr> <td style="text-align: center;">UN</td> <td style="text-align: center;">Unit</td> </tr> </table> | <u>Code</u> | <u>Name</u> | UN | Unit | | | | | | | | |
| <u>Code</u> | <u>Name</u> | | | | | | | | | | | | | |
| UN | Unit | | | | | | | | | | | | | |
| IT104 | 212 | Unit Price Description: Price per unit of product, service, commodity, etc. | C | R | 1/17 | Used | | | | | | | | |
| IT105 | 639 | Basis of Unit Price Code Description: Code identifying the type of unit price for an item | O | ID | 2/2 | Used | | | | | | | | |
| | | <table border="0"> <tr> <td style="text-align: center;"><u>Code</u></td> <td style="text-align: center;"><u>Name</u></td> </tr> <tr> <td style="text-align: center;">PE</td> <td style="text-align: center;">Price per Each</td> </tr> </table> | <u>Code</u> | <u>Name</u> | PE | Price per Each | | | | | | | | |
| <u>Code</u> | <u>Name</u> | | | | | | | | | | | | | |
| PE | Price per Each | | | | | | | | | | | | | |
| IT106 | 235 | Product/Service ID Qualifier Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234) | C | ID | 2/2 | Used | | | | | | | | |
| | | <table border="0"> <tr> <td style="text-align: center;"><u>Code</u></td> <td style="text-align: center;"><u>Name</u></td> </tr> <tr> <td style="text-align: center;">IB</td> <td style="text-align: center;">International Standard Book Number (ISBN)</td> </tr> <tr> <td style="text-align: center;">EN</td> <td style="text-align: center;">(ISBN-13) – Effectively doubles the number of ISBNs available.</td> </tr> <tr> <td style="text-align: center;">UK</td> <td style="text-align: center;">UCC/EAN-14: Used when a leading digit is added to the</td> </tr> </table> | <u>Code</u> | <u>Name</u> | IB | International Standard Book Number (ISBN) | EN | (ISBN-13) – Effectively doubles the number of ISBNs available. | UK | UCC/EAN-14: Used when a leading digit is added to the | | | | |
| <u>Code</u> | <u>Name</u> | | | | | | | | | | | | | |
| IB | International Standard Book Number (ISBN) | | | | | | | | | | | | | |
| EN | (ISBN-13) – Effectively doubles the number of ISBNs available. | | | | | | | | | | | | | |
| UK | UCC/EAN-14: Used when a leading digit is added to the | | | | | | | | | | | | | |

| <u>Ref</u> | <u>Id</u> | <u>Element Name</u> | <u>Req</u> | <u>Type</u> | <u>Min/Max</u> | <u>Usage</u> | | | | |
|--------------|-----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-------------|----------------|-----------------------|--|--|--|--|
| | | ISBN- 13 that specifies the packaging level (such as a carton). When the packaging level is greater than a unit (such as a carton), a new check digit must be calculated. | | | | | | | | |
| IT107 | 234 | Product/Service ID Description: Identifying number for a product or service | C | AN | 1/40 | Used | | | | |
| IT108 | 235 | Product/Service ID Qualifier Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234) | C | ID | 2/2 | Used | | | | |
| | | <table border="0"> <thead> <tr> <th><u>Code</u></th> <th><u>Name</u></th> </tr> </thead> <tbody> <tr> <td>PO</td> <td>Purchase Order Number</td> </tr> </tbody> </table> | <u>Code</u> | <u>Name</u> | PO | Purchase Order Number | | | | |
| <u>Code</u> | <u>Name</u> | | | | | | | | | |
| PO | Purchase Order Number | | | | | | | | | |
| IT109 | 234 | Product/Service ID Description: Identifying number for a product or service | C | AN | 1/40 | Used | | | | |
| IT110 | 235 | Product/Service ID Qualifier Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234) | C | ID | 2/2 | Used | | | | |
| | | <table border="0"> <thead> <tr> <th><u>Code</u></th> <th><u>Name</u></th> </tr> </thead> <tbody> <tr> <td>AI</td> <td>Alternate ISBN</td> </tr> </tbody> </table> | <u>Code</u> | <u>Name</u> | AI | Alternate ISBN | | | | |
| <u>Code</u> | <u>Name</u> | | | | | | | | | |
| AI | Alternate ISBN | | | | | | | | | |
| IT111 | 234 | Product/Service ID Description: Identifying number for a product or service | C | AN | 1/40 | Used | | | | |

TXI Tax Information

| | |
|--------------------|-------------|
| Pos: 410 | Max: 10 |
| Heading - Optional | |
| Loop: BS5 | Elements: 3 |

To specify tax information

Syntax:

1. TXI02 R020306 -- At least one of TXI02 or TXI03 is required.

Comments:

1. TXI02 is the monetary amount of the tax.
2. TXI03 is the tax percent expressed as a decimal..

Element Summary:

| <u>Ref</u> | <u>Id</u> | <u>Element Name</u> | <u>Req</u> | <u>Type</u> | <u>Min/Max</u> | <u>Usage</u> | | | | | | | | |
|-------------|---------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-------------|----------------|------------------------|----|---------------------------|----|-----------|--|--|--|--|
| TXI01 | 963 | Tax Type Code Description: Code specifying the type of tax | M | ID | 2/2 | Required | | | | | | | | |
| | | <table border="0"> <thead> <tr> <th><u>Code</u></th> <th><u>Name</u></th> </tr> </thead> <tbody> <tr> <td>GS</td> <td>Goods and Services Tax</td> </tr> <tr> <td>LS</td> <td>State and Local Sales Tax</td> </tr> <tr> <td>TX</td> <td>All Taxes</td> </tr> </tbody> </table> | <u>Code</u> | <u>Name</u> | GS | Goods and Services Tax | LS | State and Local Sales Tax | TX | All Taxes | | | | |
| <u>Code</u> | <u>Name</u> | | | | | | | | | | | | | |
| GS | Goods and Services Tax | | | | | | | | | | | | | |
| LS | State and Local Sales Tax | | | | | | | | | | | | | |
| TX | All Taxes | | | | | | | | | | | | | |
| TXI02 | 782 | Monetary Amount Description: Monetary amount | C | R | 1/15 | Used | | | | | | | | |
| TXI03 | 954 | Percent Description: Percentage expressed as a decimal | C | R | 1/10 | Used | | | | | | | | |

CTP Pricing Information

| | |
|--------------------|-------------|
| Pos: 420 | Max: 10 |
| Heading - Optional | |
| Loop: BS5 | Elements: 6 |

To specify pricing information

Syntax:

1. CTP06 C0607 -- If CTP06 is present, then CTP07 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.

Element Summary:

| <u>Ref</u> | <u>Id</u> | <u>Element Name</u> | <u>Req</u> | <u>Type</u> | <u>Min/Max</u> | <u>Usage</u> | | | | | | | | |
|-------------|-------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-------------|----------------|---------------------|-----|----------------|-----|-------------------------------------|--|--|--|--|
| CTP01 | 687 | Class of Trade Code Description: Code indicating class of trade | O | ID | 2/2 | Used | | | | | | | | |
| | | <table border="0"> <thead> <tr> <th><u>Code</u></th> <th><u>Name</u></th> </tr> </thead> <tbody> <tr> <td>TR</td> <td>General Trade</td> </tr> </tbody> </table> | <u>Code</u> | <u>Name</u> | TR | General Trade | | | | | | | | |
| <u>Code</u> | <u>Name</u> | | | | | | | | | | | | | |
| TR | General Trade | | | | | | | | | | | | | |
| CTP02 | 236 | Price Identifier Code Description: Code identifying pricing specification | C | ID | 3/3 | Used | | | | | | | | |
| | | <table border="0"> <thead> <tr> <th><u>Code</u></th> <th><u>Name</u></th> </tr> </thead> <tbody> <tr> <td>CON</td> <td>Contract Price</td> </tr> <tr> <td>NET</td> <td>Net Item Price</td> </tr> <tr> <td>SLP</td> <td>Retail/List/Suggested Selling Price</td> </tr> </tbody> </table> | <u>Code</u> | <u>Name</u> | CON | Contract Price | NET | Net Item Price | SLP | Retail/List/Suggested Selling Price | | | | |
| <u>Code</u> | <u>Name</u> | | | | | | | | | | | | | |
| CON | Contract Price | | | | | | | | | | | | | |
| NET | Net Item Price | | | | | | | | | | | | | |
| SLP | Retail/List/Suggested Selling Price | | | | | | | | | | | | | |
| CTP03 | 212 | Unit Price Description: Price per unit of product, service, commodity, etc. | O | R | 1/17 | Used | | | | | | | | |
| CTP04 | 380 | Quantity Description: Numeric value of quantity | C | R | 1/15 | Used | | | | | | | | |
| CTP06 | 648 | Price Multiplier Qualifier Description: Code indicating the type of price multiplier | O | ID | 3/3 | Used | | | | | | | | |
| | | <table border="0"> <thead> <tr> <th><u>Code</u></th> <th><u>Name</u></th> </tr> </thead> <tbody> <tr> <td>DIS</td> <td>Discount Multiplier</td> </tr> </tbody> </table> | <u>Code</u> | <u>Name</u> | DIS | Discount Multiplier | | | | | | | | |
| <u>Code</u> | <u>Name</u> | | | | | | | | | | | | | |
| DIS | Discount Multiplier | | | | | | | | | | | | | |
| CTP07 | 649 | Multiplier Description: Value to be used as a multiplier to obtain a new value. This is equal to 1 - (the discount percent) | C | R | 1/10 | Used | | | | | | | | |

N9

Reference Identification

| | |
|--------------------|-------------|
| Pos: 430 | Max: 10 |
| Heading - Optional | |
| Loop: BS5 | Elements: 3 |

To transmit identifying information as specified by the Reference Identification Qualifier

Syntax:

1. N902 R0203 -- At least one of N902 or N903 is required.

Element Summary:

| <u>Ref</u> | <u>Id</u> | <u>Element Name</u> | <u>Req</u> | <u>Type</u> | <u>Min/Max</u> | <u>Usage</u> | | | | | | |
|-------------|-----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-------------|----------------|----------------|----|-----------------------|--|--|--|--|
| N901 | 128 | Reference Identification Qualifier Description: Code Qualifying the Reference Identification | M | ID | 2/3 | Required | | | | | | |
| | | <table border="0"> <thead> <tr> <th><u>Code</u></th> <th><u>Name</u></th> </tr> </thead> <tbody> <tr> <td>IK</td> <td>Invoice Number</td> </tr> <tr> <td>PO</td> <td>Purchase Order Number</td> </tr> </tbody> </table> | <u>Code</u> | <u>Name</u> | IK | Invoice Number | PO | Purchase Order Number | | | | |
| <u>Code</u> | <u>Name</u> | | | | | | | | | | | |
| IK | Invoice Number | | | | | | | | | | | |
| PO | Purchase Order Number | | | | | | | | | | | |
| N902 | 127 | Reference Identification Description: Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier | C | AN | 1/30 | Used | | | | | | |
| N903 | 369 | Free-form Description Description: Free-form descriptive text | C | AN | 1/45 | Used | | | | | | |

SAC Service, Promotion, Allowance, or Charge Information

| | |
|--------------------|-------------|
| Pos: 490 | Max: 1 |
| Heading - Optional | |
| Loop: SAC | Elements: 7 |

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

Syntax:

1. SAC02 R0203 -- At least one of SAC02 or SAC03 is required.
2. SAC03 P0304 -- If either SAC03 or SAC04 are present, then the others are required.
3. SAC06 P0607 -- If either SAC06 or SAC07 are present, then the others are required.

Semantics:

1. If SAC01 is "A" or "C", then at least one of SAC05 or SAC08 is required.
2. SAC05 is the total amount for the service, promotion, allowance, or charge.
3. If SAC05 is present with SAC08, then SAC05 takes precedence.
4. SAC08 is the allowance or charge rate per unit.
5. SAC10 is the quantity basis when the allowance or charge quantity is different from the purchase order or invoice quantity.

Comments:

1. SAC04 may be used to uniquely identify the service, promotion, allowance, or charge. In addition, it may be used in conjunction to further the code in SAC02.

Element Summary:

| <u>Ref</u> | <u>Id</u> | <u>Element Name</u> | <u>Req</u> | <u>Type</u> | <u>Min/Max</u> | <u>Usage</u> | | | | | | | | | | | | |
|-------------|--------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-------------|----------------|---------------------|------|--------------|------|--------------------------------|------|----------|------|-----|--|--|--|--|
| SAC01 | 248 | Allowance or Charge Indicator Description: Code which indicates an allowance or charge for the service specified | M | ID | 1/1 | Required | | | | | | | | | | | | |
| | | <table border="0"> <thead> <tr> <th><u>Code</u></th> <th><u>Name</u></th> </tr> </thead> <tbody> <tr> <td>A</td> <td>Allowance</td> </tr> <tr> <td>C</td> <td>Charge</td> </tr> <tr> <td>P</td> <td>Promotion</td> </tr> </tbody> </table> | <u>Code</u> | <u>Name</u> | A | Allowance | C | Charge | P | Promotion | | | | | | | | |
| <u>Code</u> | <u>Name</u> | | | | | | | | | | | | | | | | | |
| A | Allowance | | | | | | | | | | | | | | | | | |
| C | Charge | | | | | | | | | | | | | | | | | |
| P | Promotion | | | | | | | | | | | | | | | | | |
| SAC02 | 1300 | Service, Promotion, Allowance, or Charge Code Description: Code identifying the service, promotion, allowance, or charge | C | ID | 4/4 | Used | | | | | | | | | | | | |
| | | <table border="0"> <thead> <tr> <th><u>Code</u></th> <th><u>Name</u></th> </tr> </thead> <tbody> <tr> <td>A990</td> <td>Cataloging Services</td> </tr> <tr> <td>B210</td> <td>Co-op Credit</td> </tr> <tr> <td>D200</td> <td>Freight Charges to Destination</td> </tr> <tr> <td>E170</td> <td>Labeling</td> </tr> <tr> <td>H850</td> <td>Tax</td> </tr> </tbody> </table> | <u>Code</u> | <u>Name</u> | A990 | Cataloging Services | B210 | Co-op Credit | D200 | Freight Charges to Destination | E170 | Labeling | H850 | Tax | | | | |
| <u>Code</u> | <u>Name</u> | | | | | | | | | | | | | | | | | |
| A990 | Cataloging Services | | | | | | | | | | | | | | | | | |
| B210 | Co-op Credit | | | | | | | | | | | | | | | | | |
| D200 | Freight Charges to Destination | | | | | | | | | | | | | | | | | |
| E170 | Labeling | | | | | | | | | | | | | | | | | |
| H850 | Tax | | | | | | | | | | | | | | | | | |
| SAC05 | 610 | Amount Description: Monetary amount | O | N2 | 1/15 | Used | | | | | | | | | | | | |
| SAC08 | 118 | Rate Description: Rate expressed in the standard monetary denomination for the currency specified | O | R | 1/9 | Used | | | | | | | | | | | | |
| SAC09 | 355 | Unit or Basis for Measurement Code Description: Code specifying the units in which a value is being | 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> |
|------------|-----------|---------------------|------------|-------------|----------------|--------------|
|------------|-----------|---------------------|------------|-------------|----------------|--------------|

expressed, or manner in which a measurement has been taken

| <u>Code</u> | <u>Name</u> |
|-------------|-------------|
|-------------|-------------|

| | |
|----|------|
| UN | Unit |
|----|------|

| | | | | | | |
|--------------|------------|------------------------------------------------------------------|----------|----------|-------------|-------------|
| SAC10 | 380 | Quantity Description: Numeric value of quantity | C | R | 1/15 | Used |
|--------------|------------|------------------------------------------------------------------|----------|----------|-------------|-------------|

| | | | | | | |
|--------------|------------|-----------------------------------------------------------------------------------------------------------------------------------------|----------|-----------|------------|-------------|
| SAC12 | 331 | Allowance or Charge Method of Handling Code Description: Code indicating method of handling for an allowance or charge | O | ID | 2/2 | Used |
|--------------|------------|-----------------------------------------------------------------------------------------------------------------------------------------|----------|-----------|------------|-------------|

| <u>Code</u> | <u>Name</u> |
|-------------|-------------|
|-------------|-------------|

| | |
|----|----------------------------------|
| 06 | Charge to be Paid by Customer |
| 09 | Allowance To Be Issued by Vendor |

SE Transaction Set Trailer

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

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

Comments:

1. SE is the last segment of each transaction set.
2. SE02 must match the ST control number (ST02)

Element Summary:

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