

Electronic Data Interchange

856 - Ship Notice/Manifest (VICS Version - 4010)

PICK PACK STRUCTURE

September 2012

Powered By:



Purpose

This document provides detailed guidelines and conventions for implementing electronic ship notice/manifests with Boscov's Department Stores. Our 856 Ship Notice Manifest, as detailed in this document, will provide you with all of the information necessary to fill our requirements.

These guidelines comply with published VICS standards for EDI version 4010 for all data elements and segments.

Mandatory segments and elements are always required on every document. Optional segments and elements that are required by Boscov's Department Stores are marked as "Must Use". Segment usage is marked at the top of each page under Usage. Element usage is marked in the far-left column beside each element. If the column is blank, the element is optional. Information in the Attributes column is from the VICS standards and is provided for reference only. Trading Partners must adhere to our requirements as indicated by "Must Use".

Business Rules

Boscov's prefers both Bill of Lading Number and Carrier Reference Number (PRO/Invoice) in REF segments. At a minimum, Bill of Lading Number must be sent.

Boscov's prefers both Shipped Date and Current Schedule Delivery Date in DTM segments. At a minimum, Shipped Date must be sent.

At a minimum, UPC or EAN code must be sent in LIN.

Contacts

Transaction Testing: GXS Inc. 1.877.446.6847 Select Option 2

Production Support: GXS Inc. 1.877.446.6847 Select Option 2

Boscov's Department Stores: ediadmin@boscovs.com

Communication IDs

Production

S/R ID: 01/014492501

VAN: Inovis, VANS, HAMAIL

Delimiters

Element Separator - "*" (HEX "2A" in ASCII) (HEX "5C" in EBCDIC)

Component (Sub Element) Separator - ">" (HEX "3E" in ASCII) (HEX "6E" in EBCDIC)

Segment Terminator - "~" (HEX "7E" in ASCII) (HEX "A1" in EBCDIC)

Need an EDI Solution?

We have selected GXS Inc. to administer our EDI operations and to enable our trading partners. For those trading partners who do not trade documents electronically, GXS offers a number of electronic commerce solutions to assist you.

For Service Bureau, call 1-800-872-8255. Select Option 2, then Option 3.

For all other solutions, call 1-800-872-8255. Select Option 1, then Option 4.

Boscov's Department Stores 856 Ship Notice/Manifest

Functional Group ID=SH

Introduction:

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

Envelope:

| Page | Pos. | Seg. | | Req. | | Loop | Notes and |
|------|------|-----------|----------------------------|------|---------|--------|-----------|
| No. | No. | <u>ID</u> | <u>Name</u> | Des. | Max.Use | Repeat | Comments |
| 6-7 | 010 | ISA | Interchange Control Header | M | 1 | | |
| 8 | 020 | GS | Functional Group Header | M | 1 | | |

Heading:

| Page | Pos. | Seg. | | Req. | | Loop | Notes and |
|------|------|------|-----------------------------------|------|---------|--------|-----------|
| No. | No. | ID | Name | Des. | Max.Use | Repeat | Comments |
| 9 | 010 | ST | Transaction Set Header | M | 1 | | |
| 10 | 020 | BSN | Beginning Segment for Ship Notice | M | 1 | | |

Detail:

| Page <u>No.</u> | Pos. No. | Seg. <u>ID</u> | Name | Req. Des. | Max.Use | Loop <u>Repeat</u> | Notes and Comments |
|--------------------|-------------|-------------------|---|--------------|---------|-----------------------|-----------------------|
| | | <u> </u> | LOOP ID - HL | | | 200000 | |
| 11 | 010 | HL | Hierarchical Level - Shipment | M | 1 | | c1 |
| 12-13 | 110 | TD1 | Carrier Details (Quantity and Weight) | O | 20 | | |
| 14-15 | 120 | TD5 | Carrier Details (Routing Sequence/Transit Time) | О | 12 | | |
| 16 | 130 | TD3 | Carrier Details (Equipment) | O | 12 | | |
| 17-19 | 150 | REF | Reference Identification | O | >1 | | |
| 20-21 | 200 | DTM | Date/Time Reference | O | 10 | | |
| 22 | 210 | FOB | F.O.B. Related Instructions | O | 1 | | |
| | | | LOOP ID - N1 (Ship From) | | | 200 | |
| 23 | 220 | N1 | Name | О | 1 | | |
| 24 | 240 | N3 | Address Information | O | 2 | | |
| 25 | 250 | N4 | Geographic Location | О | 1 | | |
| | | | LOOP ID - N1 (Ship To) | | | 200 | |
| 26 | 220 | N1 | Name | О | 1 | | |
| 27 | 240 | N3 | Address Information | O | 2 | | |
| 28 | 250 | N4 | Geographic Location | О | 1 | | |

| | | | LOOP ID - HL | | | 200000 |
|-------|-----|-----|----------------------------|---|----|--------|
| 29 | 010 | HL | Hierarchical Level - Order | M | 1 | |
| 30 | 050 | PRF | Purchase Order Reference | O | 1 | |
| 31-32 | 150 | REF | Reference Identification | O | >1 | |
| | | | LOOP ID - N1 | | | 200 |
| 33 | 220 | N1 | Name | 0 | 1 | |
| | | | LOOP ID - HL | | | 200000 |
| 34 | 010 | HL | Hierarchical Level - Tare | M | 1 | |
| 35 | 145 | TSD | Trailer Shipment Details | O | 1 | |
| 36 | 190 | MAN | Marks and Numbers | O | >1 | |
| 37 | 215 | PAL | Pallet Information | 0 | 1 | |
| | | | LOOP ID - HL | | | 200000 |
| 38 | 010 | HL | Hierarchical Level - Pack | M | 1 | |
| 39 | 190 | MAN | Marks and Numbers | 0 | >1 | |
| | | | LOOP ID - HL | | | 200000 |
| 40 | 010 | HL | Hierarchical Level - Item | M | 1 | |
| 41-42 | 020 | LIN | Item Identification | O | 1 | |
| 43 | 030 | SN1 | Item Detail (Shipment) | O | 1 | |

Summary:

| Page | Pos. | Seg. | | Req. | | Loop | Notes and |
|------|------------|-----------|-------------------------|------|---------|--------|-----------|
| No. | <u>No.</u> | <u>ID</u> | <u>Name</u> | Des. | Max.Use | Repeat | Comments |
| 44 | 010 | CTT | Transaction Totals | O | 1 | | |
| 45 | 020 | SE | Transaction Set Trailer | M | 1 | | |

Envelope:

| Page | Pos. | Seg. | | Req. | | Loop | Notes and |
|------|------|-----------|-----------------------------|------|---------|--------|-----------|
| No. | No. | <u>ID</u> | <u>Name</u> | Des. | Max.Use | Repeat | Comments |
| 46 | 030 | GE | Functional Group Trailer | M | 1 | | |
| 47 | 040 | IEA | Interchange Control Trailer | M | 1 | | |

Transaction Set Notes

Number of line items (CTT01) is the accumulation of the number of HL segments. If used, hash total (CTT02) is the sum of the value of units shipped (SN102) for each SN1 segment.

Transaction Set Comments

1. The HL segment is the only mandatory segment within the HL loop, and by itself, the HL segment has no meaning.

Segment: ISA Interchange Control Header

Position: 010

Loop: Level:

Usage: Mandatory

Max Use: 1

Purpose: To start and identify an interchange of zero or more functional groups and interchange-

related control segments

Syntax Notes: Semantic Notes: Comments:

| | | | Data Element Summary | | |
|-----------------|-------|----------------|--|--------------|---------------|
| | Ref. | Data | | | |
| | Des. | Element | <u>Name</u> | Attr | ibutes |
| Must Use | ISA01 | I01 | Authorization Information Qualifier | M | ID 2/2 |
| | | | Code to identify the type of information in the Authorization I | nfor | mation |
| | | | No Authorization Information Present (N | | |
| | | | Information in I02) | | C |
| Must Use | ISA02 | 102 | Authorization Information | M | AN 10/10 |
| | | | Information used for additional identification or authorization | of th | ie |
| | | | interchange sender or the data in the interchange; the type of i | nforr | nation is set |
| | | | by the Authorization Information Qualifier (I01) | | |
| | | | " 10 blank spaces | | |
| Must Use | ISA03 | I03 | Security Information Qualifier | M | ID 2/2 |
| | | | Code to identify the type of information in the Security Inform | natio | n |
| | | | 00 No Security Information Present (No Me | | |
| | | | Information in IO4) | | C |
| Must Use | ISA04 | I04 | Security Information | M | AN 10/10 |
| | | | This is used for identifying the security information about the | inter | change |
| | | | sender or the data in the interchange; the type of information i | | |
| | | | Security Information Qualifier (I03) | | , |
| | | | " 10 blank spaces | | |
| Must Use | ISA05 | I05 | Interchange ID Qualifier | M | ID 2/2 |
| | | | Qualifier to designate the system/method of code structure use | ed to | designate the |
| | | | sender or receiver ID element being qualified | | C |
| | | | Refer to 004010 Data Element Dictionary for acceptable code | valu | es. |
| Must Use | ISA06 | 106 | Interchange Sender ID | M | AN 15/15 |
| | | | Identification code published by the sender for other parties to | use | as the |
| | | | receiver ID to route data to them; the sender always codes this | valu | ie in the |
| | | | sender ID element | | |
| Must Use | ISA07 | 105 | Interchange ID Qualifier | \mathbf{M} | ID 2/2 |
| | | | Qualifier to designate the system/method of code structure use | d to | designate the |
| | | | sender or receiver ID element being qualified | | |
| | | | O1 Duns (Dun & Bradstreet) | | |
| Must Use | ISA08 | 107 | Interchange Receiver ID | M | AN 15/15 |
| | | | Identification code published by the receiver of the data; Whe | n sen | iding, it is |
| | | | used by the sender as their sending ID, thus other parties send | ing to | o them will |
| | | | use this as a receiving ID to route data to them | | |
| | | | Boscov's Department Stores ID is "014492501" | | |
| Must Use | ISA09 | 108 | Interchange Date | M | DT 6/6 |
| | | | Date of the interchange | | |
| Must Use | ISA10 | 109 | Interchange Time | M | TM 4/4 |
| | | | Time of the interchange | | |
| Must Use | ISA11 | I10 | Interchange Control Standards Identifier | M | ID 1/1 |
| | | | Code to identify the agency responsible for the control standar | | ed by the |
| | | | message that is enclosed by the interchange header and trailer | | |
| | | | U U.S. EDI Community of ASC X12, TDC | C, a | nd UCS |
| | | | | | |

| Must Use | ISA12 | I11 | Interchange Control Version Number | M | ID 5/5 |
|----------|-------|------------|--|--------------|----------------|
| Must Use | 15A12 | 111 | | | 110 3/3 |
| | | | This version number covers the interchange control segment | | N 1 11 1 |
| | | | 00401 Draft Standards for Trial Use Approve | | • |
| | | | ASC X12 Procedures Review Board th | rough | October |
| | | | 1997 | | |
| Must Use | ISA13 | I12 | Interchange Control Number | M | N0 9/9 |
| | | | A control number assigned by the interchange sender | | |
| Must Use | ISA14 | I13 | Acknowledgment Requested | \mathbf{M} | ID 1/1 |
| | | | Code sent by the sender to request an interchange acknowled | dgmen | it (TA1) |
| | | | 0 No Acknowledgment Requested | U | , , |
| Must Use | ISA15 | I14 | Usage Indicator | M | ID 1/1 |
| | | | Code to indicate whether data enclosed by this interchange e | envelo | ne is test. |
| | | | production or information | | r, |
| | | | P Production Data | | |
| | | | T Test Data | | |
| Must Use | ISA16 | I15 | | M | AN 1/1 |
| Must Use | 15A10 | 113 | Component Element Separator | | |
| | | | Type is not applicable; the component element separator is a | | |
| | | | data element; this field provides the delimiter used to separa | te con | nponent data |
| | | | elements within a composite data structure; this value must | oe diff | erent than the |
| | | | data element separator and the segment terminator | | |
| | | | > The value identified for retail use | | |
| | | | | | |

Segment: GS Functional Group Header

Position: 020

Loop: Level:

Usage: Mandatory

Max Use:

Purpose: To indicate the beginning of a functional group and to provide control information

Syntax Notes: Semantic Notes:

c Notes: 1 GS04 is the group date.

2 GS05 is the group time.

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

Comments:

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

| | Def | Data | Data Element Summary | | | |
|----------|-------------|-------------|---|--------------|----------------|--|
| | Ref. | Data | NT. | A 44 | •1 | |
| 3.5 4.77 | Des. | Element 470 | Name | | ributes | |
| Must Use | GS01 | 479 | Functional Identifier Code | M | ID 2/2 | |
| | | | Code identifying a group of application related transaction se | is | | |
| | | | SH Ship Notice/Manifest (856) | | | |
| Must Use | GS02 | 142 | Application Sender's Code | M | AN 2/15 | |
| | | | Code identifying party sending transmission; codes agreed to | by tra | ading | |
| | | | partners | | | |
| Must Use | GS03 | 124 | Application Receiver's Code | M | AN 2/15 | |
| | | | Code identifying party receiving transmission; codes agreed to by trading | | | |
| | | | partners | | | |
| | | | Boscov's Department Stores ID is "014492501" | | | |
| Must Use | GS04 | 373 | Date | M | DT 8/8 | |
| | | | Date expressed as CCYYMMDD | | | |
| Must Use | GS05 | 337 | Time | \mathbf{M} | TM 4/8 | |
| | | | Time expressed in 24-hour clock time as follows: HHMM, or | HHN | MMSS, or | |
| | | | HHMMSSD, or HHMMSSDD, where $H = hours (00-23)$, $M = hours (00-23)$ | = mir | nutes (00-59), | |
| | | | S = integer seconds (00-59) and DD = decimal seconds; decir | nal se | econds are | |
| | | | expressed as follows: $D = tenths (0-9)$ and $DD = hundredths (0-9)$ | (00-99 | 9) | |
| Must Use | GS06 | 28 | Group Control Number | M | N0 1/9 | |
| | | | Assigned number originated and maintained by the sender | | | |
| Must Use | GS07 | 455 | Responsible Agency Code | M | ID 1/2 | |
| | | | Code used in conjunction with Data Element 480 to identify t | he iss | suer of the | |
| | | | standard | | | |
| | | | X Accredited Standards Committee X12 | | | |
| Must Use | GS08 | 480 | Version / Release / Industry Identifier Code | M | AN 1/12 | |
| | | | Code indicating the version, release, subrelease, and industry | ident | ifier of the | |
| | | | EDI standard being used, including the GS and GE segments; | | | |
| | | | in GS segment is X, then in DE 480 positions 1-3 are the vers | | | |
| | | | positions 4-6 are the release and subrelease, level of the version | | | |
| | | | 7-12 are the industry or trade association identifiers (optional | | | |
| | | | user); if code in DE455 in GS segment is T, then other format | | | |
| | | | 004010VICS Draft Standards Approved for Publication | | | |
| | | | procedures Review Board through Octol | • | | |
| | | | 4, Release 1, the VICS EDI subset | , 01 1 , | ,, , oibion | |
| | | | T, Release 1, the VIES LIDI subset | | | |

Segment: ST Transaction Set Header

Position: 010

Loop:

Level: Heading Usage: Mandatory

Max Use: 1

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

Syntax Notes: Semantic Notes:

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

Comments:

Example:

ST*856*856000706~

| | | | Data Biement Sammar j | | | | |
|-----------------|------|----------------|---|-------------|----------------|--|--|
| | Ref. | Data | | | | | |
| | Des. | Element | <u>Name</u> | <u>Attr</u> | <u>ributes</u> | | |
| Must Use | ST01 | 143 | Transaction Set Identifier Code | M | ID 3/3 | | |
| | | | Code uniquely identifying a Transaction Set | | | | |
| | | | Ship Notice/Manifest | | | | |
| Must Use | ST02 | 329 | Transaction Set Control Number | M | AN 4/9 | | |
| | | | Identifying control number that must be unique within the tra | ınsact | ion set | | |
| | | | functional group assigned by the originator for a transaction s | set | | | |
| | | | The number is sequentially assigned by the sender, starting w | vith or | ne within | | |
| | | | each functional group. For each functional group, the first transaction set | | | | |
| | | | control number will be 0001 and incremented by one for each | h addi | itional | | |
| | | | transaction set within the group. | | | | |
| | | | - 1 | | | | |

Segment: BSN Beginning Segment for Ship Notice

Position: 020

Loop:

Level: Heading Usage: Mandatory

Max Use: 1

Purpose: To transmit identifying numbers, dates, and other basic data relating to the transaction set

Syntax Notes: 1 If BSN07 is present, then BSN06 is required.

Semantic Notes: 1 BSN03 is the date the shipment transaction set is created.

2 BSN04 is the time the shipment transaction set is created.

BSN06 is limited to shipment related codes.

Comments: 1 BSN06 and BSN07 differentiate the functionality of use for the transaction set.

Notes: In some implementations, it may be appropriate to omit the unit load level and packaging

levels, i.e., tare and pack, from the transaction set. Depending on the retailer's receiving systems, carton identification may not be required. Code 0004 in BSN05 indicates the use of a hierarchical structure that does not include a unit load level or any packaging levels.

Example:

BSN*00*007111*20001031*0745*0001~

| | Ref. | Data | v | | | | |
|----------|-------|----------------|--|-------------|----------------|--|--|
| | Des. | Element | <u>Name</u> | <u>Attr</u> | <u>ibutes</u> | | |
| Must Use | BSN01 | 353 | Transaction Set Purpose Code | M | ID 2/2 | | |
| | | | Code identifying purpose of transaction set | | | | |
| | | | 00 Original | | | | |
| Must Use | BSN02 | 396 | Shipment Identification | M | AN 2/30 | | |
| | | | A unique control number assigned by the original shipper to identify a specific | | | | |
| | | | shipment | | | | |
| Must Use | BSN03 | 373 | Date | M | DT 8/8 | | |
| | | | Date expressed as CCYYMMDD | | | | |
| Must Use | BSN04 | 337 | Time | M | TM 4/8 | | |
| | | | Time expressed in 24-hour clock time as follows: HHMM, or | r HHN | MSS, or | | |
| | | | HHMMSSD, or HHMMSSDD, where $H = hours$ (00-23), M | = mir | nutes (00-59), | | |
| | | | S = integer seconds (00-59) and DD = decimal seconds; decimal seconds decima | mal se | econds are | | |
| | | | expressed as follows: $D = tenths (0-9)$ and $DD = hundredths$ | (00-99) | 9) | | |
| Must Use | BSN05 | 1005 | Hierarchical Structure Code | O | ID 4/4 | | |
| | | | Code indicating the hierarchical application structure of a tra | nsacti | on set that | | |
| | | | utilizes the HL segment to define the structure of the transaction set | | | | |
| | | | O001 Shipment, Order, Packaging, Item | | | | |
| | | | Pick and Pack Structure | | | | |

Segment: **HL** Hierarchical Level - Shipment

Position: 010

Loop: HL Mandatory

Level: Detail
Usage: Mandatory

Max Use:

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

segments

Syntax Notes: Semantic Notes: 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 lineitem data.

The HL segment defines a top-down/left-right ordered structure.

- 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.

Notes:

The HL segment is used to identify levels of detail information using a hierarchical structure.

HL01 shall contain a unique number for each occurrence of the HL segment within the transaction set. The value assigned to the first HL segment will be 1, and is incremented by one for each subsequent HL segment within the transaction set.

HL02 identifies the hierarchical ID of the HL segment to which it is subordinate (child of). HL02 will be omitted for the first occurrence of the HL segment in the transaction set, since it has no parent. HL03 identifies the application content of the series of segments following the current HL segment up to the next occurrence of an HL segment, or the CTT or SE segment, e.g., Shipment, Unit Load, Order, Tare, Pack and Item.

Example: HL*1**S~

| | Ref. | Data | | | | | | |
|----------|------|----------------|---|-------|---------------|--|--|--|
| | Des. | Element | <u>Name</u> | Attr | <u>ibutes</u> | | | |
| Must Use | HL01 | 628 | Hierarchical ID Number | M | AN 1/12 | | | |
| | | | A unique number assigned by the sender to identify a particula a hierarchical structure | ar da | ta segment in | | | |
| | | | The value for this level (shipment) is 1. | | | | | |
| Must Use | HL03 | 735 | Hierarchical Level Code | M | ID 1/2 | | | |
| | | | Code defining the characteristic of a level in a hierarchical structure | | | | | |
| | | | S Shipment | | | | | |

Segment: TD1 Carrier Details (Quantity and Weight)

Position: 110

Loop: HL Mandatory

Level: Detail
Usage: Optional
Max Use: 20

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

Syntax Notes: 1 If TD101 is present, then TD102 is required.

2 If TD103 is present, then TD104 is required.
3 If TD106 is present, then TD107 is required.

4 If either TD107 or TD108 is present, then the other is required.
5 If either TD109 or TD110 is present, then the other is required.

Semantic Notes: Comments:

Notes: This segment, at the shipment level, is used to specify total containers and gross weight

of the shipment.

Example:

TD1*CTN25*24****G*147*LB~

| | | | Data Elem | ent Summary | | | |
|-----------------|---------------------|------------------------|---------------------------------------|---|--------|--------------|--|
| | Ref. <u>Des.</u> | Data <u>Element</u> | <u>Name</u> | | Attı | ributes_ | |
| Must Use | TD101 | 103 | Packaging Code | | O | AN 3/5 | |
| | | | | e type of packaging; Part 1: Packaging Fo | rm, F | Part 2: | |
| | | | Packaging Material | rial; if the Data Element is used, then Part 1 is always required | | | |
| | | | BAG | Bag | | | |
| | | | CTN | Carton | | | |
| | | | MIX | Mixed Container Types | | | |
| | | | | More than one type of container is included in a shipment | | | |
| | | | | (shipment could consist of 3 pieces that | inclu | de 1 box, 1 | |
| | | | | crate, and 1 basket) | | | |
| | | | D | Can be used only with code 71 in Part 2 | | | |
| | | | PLT | Pallet | | | |
| | | | SLP | Slip Sheet | , , | 1 | |
| | | | | Shipping containers utilizing slip sheets | | | |
| | | | | cardboard platforms used to hold productransportation | et for | storage or | |
| | | | SRW | Shrink Wrap | | | |
| | | | SKW | In packaging, a method of securing a un | it los | d by placing | |
| | | | | a large "bag" of plastic film over the con | | | |
| | | | | applying heat to induce shrinkage and c | | | |
| | | | | tighten around the contents | aase | ane oug to | |
| | | | 01 | Aluminum | | | |
| | | | 25 | Corrugated or Solid | | | |
| | | | 31 | Fibre | | | |
| | | | 58 | Metal | | | |
| | | | 71 | Not Otherwise Specified | | | |
| | | | 76 | Paper | | | |
| | | | 79 | Plastic | | | |
| | | | 91 | Stainless Steel | | | |
| | | | 94 | Wood | | | |
| Must Use | TD102 | 80 | Lading Quantity | | X | N0 1/7 | |
| | | | | eces) of the lading commodity | Λ1 | | |
| March IIaa | TD106 | 107 | | tages in the shipment as described in TD1 | | ID 1/2 | |
| Must Use | TD106 | 187 | Weight Qualifier Code defining the ty | une of weight | 0 | ID 1/2 | |
| | | | G | Gross Weight | | | |
| Must Use | TD107 | 81 | Weight | Gross Weight | X | R 1/10 | |

Numeric value of weight

Must Use TD108 355 Unit or Basis for Measurement Code

X ID 2/2

Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken

See Section III for code list.

LB Pound

Segment: TD5 Carrier Details (Routing Sequence/Transit Time)

Position: 120

Loop: HL Mandatory

Level: Detail
Usage: Optional
Max Use: 12

1

Purpose: To s **Syntax Notes:** 1

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

1 At least one of TD502 TD504 TD505 TD506 or TD512 is required.

2 If TD502 is present, then TD503 is required.
3 If TD507 is present, then TD508 is required.

4 If TD510 is present, then TD511 is required.
5 If TD513 is present, then TD512 is required.

6 If TD514 is present, then TD513 is required.

7 If TD515 is present, then TD512 is required.

Semantic Notes: Comments: 1 TD515 is the country where the service is to be performed.

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.

Notes:

This segment is used to specify every carrier in the routing sequence or a specific routing sequence that has been previously identified (usually from a routing guide). The segment can also be used to indicate estimated transit time in days. Only use TD501 if needed for clarity; this is not a requirement in most retail applications. When referring to a preestablished routing guide, use code 91 or 92 in TD502 and identify the routing sequence, from the routing guide, in TD503. To identify a specific private parcel service, TD502 will contain code 2 and TD503 will contain the corresponding SCAC. TD510 and TD511 are used to specify transit time.

When using a small package service provider as the carrier, TD502 will contain code 2, TD503 will contain the carrier's SCAC, and TD504 will contain code U to inform the receiver of a small package service shipment.

Example:

TD5*O*2*CENF***CC~

| | | | Data Eleli | ient Summary | | |
|----------|--------------|----------------|---------------------------|--|--------------|----------------|
| | Ref. | Data | | | | |
| | Des. | Element | <u>Name</u> | | Attı | <u>ributes</u> |
| Must Use | TD501 | 133 | Routing Sequence | Code | O | ID 1/2 |
| | | | Code describing the | e relationship of a carrier to a specific ship | ment | movement |
| | | | 0 | Origin Carrier (Air, Motor, or Ocean) | | |
| Must Use | TD502 | 66 | Identification Cod | , , , | \mathbf{X} | ID 1/2 |
| | | | | he system/method of code structure used for | or Ide | entification |
| | | | Code (67) | Ž | | |
| | | | 2 | Standard Carrier Alpha Code (SCAC) | | |
| Must Use | TD503 | 67 | Identification Cod | <u>*</u> | X | AN 2/80 |
| | | | Code identifying a | party or other code | | |
| | TD505 | 387 | Routing | 1 2 | X | AN 1/35 |
| | | | Free-form descripti | on of the routing or requested routing for | shipn | nent, or the |
| | | | originating carrier's | 0 1 | • | |
| | TD506 | 368 | Shipment/Order S | • | X | ID 2/2 |
| | | | • | e status of an order or shipment or the disp | ositic | on of any |
| | | | _ | the quantity ordered and the quantity ship | | • |
| | | | or transaction | | | |
| | | | BK | Back Ordered from Previous Order | | |
| | | | BP | Shipment Partial, Back Order to Ship or | ı (Da | te) |
| | | | CC | Shipment Complete on (Date) | • | , |
| | | | CM | Shipment Complete with Additional Qu | antity | У |
| | | | CP | Partial Shipment on (Date), Considered | | |
| | | | | * * ** | | |

| CS | Shipment Complete with Substitution |
|----|--|
| DE | Deleted Order |
| IC | Item Canceled |
| IS | Item Represents Substitution from Original Order |
| PR | Partial Shipment |
| SS | Split Shipment |

${\bf Segment: TD3} \ \ {\bf Carrier\ Details\ (Equipment)}$

Position: 130

Loop: HL Mandatory

Level: Detail

Usage: Optional (**Must use for Import Shipments**)

Max Use: 12

Purpose: To specify transportation details relating to the equipment used by the carrier

Syntax Notes: 1 Only one of TD301 or TD310 may be present.

If TD302 is present, then TD303 is required.
If TD304 is present, then TD305 is required.

4 If either TD305 or TD306 is present, then the other is required.

Semantic Notes:

Comments: Must use for all Import Shipments

Notes: This segment is used to specify the trailer number for a truckload shipment.

Example:

TD3*TL*GESU*6449647~

| | | | - | sata Biement Sammar j | | |
|----------|--------------|----------------|-------------|---|--------------|---------------|
| | Ref. | Data | | | | |
| | Des. | <u>Element</u> | <u>Name</u> | | <u>Attr</u> | <u>ibutes</u> |
| Must Use | TD301 | 40 | Equipme | ent Description Code | X | ID 2/2 |
| | | | Code ide | ntifying type of equipment used for shipment | | |
| | | | CV | Closed Van | | |
| | | | FT | Flat Bed Trailer | | |
| | | | RT | Controlled Temperature Trailer (Reefer) | | |
| | | | TL | Trailer (not otherwise specified) | | |
| Must Use | TD302 | 206 | Equipme | ent Initial | X | AN 1/4 |
| | | | Prefix or | alphabetic part of an equipment unit's identifying nu | ımbei | r |
| Must Use | TD303 | 207 | Equipme | ent Number | \mathbf{X} | AN 1/10 |
| | | | Sequenci | ng or serial part of an equipment unit's identifying nu | ımbe | r (pure |
| | | | numeric | form for equipment number is preferred) | | |

REF Reference Identification **Segment:**

Position:

Loop: HLMandatory

Level: Detail

Usage: Optional (Must Use)

Max Use: >1

Purpose: To specify identifying information

Syntax Notes: At least one of REF02 or REF03 is required.

> If either C04003 or C04004 is present, then the other is required. 3 If either C04005 or C04006 is present, then the other is required.

Semantic Notes: REF04 contains data relating to the value cited in REF02.

Comments:

Notes: In some cases, individual shipments with bill of lading may be grouped under a Master Bill of Lading. Under this circumstance, specifying both the bill of lading and the

associated Master Bill of Lading Number will facilitate tracking.

Example:

REF*BM*13828700000A~

| | Ref. | Data | | · | | |
|----------|-------|----------------|-------------|---|--------------|---------------|
| | Des. | Element | <u>Name</u> | | <u>Attr</u> | <u>ibutes</u> |
| Must Use | REF01 | 128 | Reference | ce Identification Qualifier | M | ID 2/3 |
| | | | Code qua | alifying the Reference Identification | | |
| | | | BM | Bill of Lading Number | | |
| Must Use | REF02 | 127 | Reference | ce Identification | \mathbf{X} | AN 1/30 |
| | | | Referenc | e information as defined for a particular Transaction | Set o | or as |
| | | | specified | by the Reference Identification Qualifier | | |

Segment: REF Reference Identification

Position: 150

Loop: HL Mandatory

Level: Detail

Usage: Optional (Must Use)

Max Use: >1

Purpose: To specify identifying information

Syntax Notes: 1 At least one of REF02 or REF03 is required.

2 If either C04003 or C04004 is present, then the other is required.

3 If either C04005 or C04006 is present, then the other is required.
 1 REF04 contains data relating to the value cited in REF02.

Semantic Notes:

Comments:

Notes: Shipping Routing Request (SRR) is generated from Boscov's TMS System to route all

our inbound shipments.

Example:

REF*LO*123456~

| | Ref. | Data | | | |
|----------|-------|----------------|---|--------------|---------------|
| | Des. | Element | <u>Name</u> | <u>Attr</u> | <u>ibutes</u> |
| Must Use | REF01 | 128 | Reference Identification Qualifier | \mathbf{M} | ID 2/3 |
| | | | Code qualifying the Reference Identification | | |
| | | | LO Shipping Routing Request | | |
| Must Use | REF02 | 127 | Reference Identification | \mathbf{X} | AN 1/30 |
| | | | Reference information as defined for a particular Transaction specified by the Reference Identification Qualifier | Set o | or as |

Segment: **REF** Reference Identification

Position: 150

Loop: HL Mandatory

Level: Detail
Usage: Optional
Max Use: >1

Purpose: To specify identifying information

Syntax Notes: 1 At least one of REF02 or REF03 is required.

If either C04003 or C04004 is present, then the other is required.
If either C04005 or C04006 is present, then the other is required.

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

Semantic Notes: Comments:

Notes:

Example:

REF*CN*13828700000A~

| | Ref. | Data | | | |
|----------|-------|----------------|---|--------------|---------------|
| | Des. | Element | <u>Name</u> | <u>Attr</u> | <u>ibutes</u> |
| Must Use | REF01 | 128 | Reference Identification Qualifier | M | ID 2/3 |
| | | | Code qualifying the Reference Identification | | |
| | | | CN Carrier's Reference Number (PRO | /Invoice) | |
| Must Use | REF02 | 127 | Reference Identification | X | AN 1/30 |
| | | | Reference information as defined for a particular Transs specified by the Reference Identification Qualifier | action Set o | or as |

Segment: DTM Date/Time Reference

Position: 200

Loop: HL Mandatory

Level: Detail

Usage: Optional (Must Use)

Max Use: 10

Purpose: To specify pertinent dates and times

Syntax Notes: 1 At least one of DTM02 DTM03 or DTM05 is required.

2 If DTM04 is present, then DTM03 is required.

3 If either DTM05 or DTM06 is present, then the other is required.

Semantic Notes:

Comments:

Example:

DTM*011*20000202~

| | Ref. <u>Des.</u> | Data <u>Element</u> | Name | Attı | <u>ributes</u> |
|----------|---------------------|------------------------|---|------|----------------|
| Must Use | DTM01 | 374 | Date/Time Qualifier | M | ID 3/3 |
| | | | Code specifying type of date or time, or both date and time 011 Shipped | | |
| Must Use | DTM02 | 373 | Date | X | DT 8/8 |
| | | | Date expressed as CCYYMMDD | | |

Segment: DTM Date/Time Reference

Position: 200

Loop: HL Mandatory

Level: Detail

Usage: Optional (Must Use)

Max Use: 10

Purpose: To specify pertinent dates and times

Syntax Notes: 1 At least one of DTM02 DTM03 or DTM05 is required.

2 If DTM04 is present, then DTM03 is required.

3 If either DTM05 or DTM06 is present, then the other is required.

Semantic Notes:

Comments:

Example:

DTM*067*20000202~

| | Ref. | Data | • | | |
|-----------------|--------------------|----------------|---|--------------|---------------|
| | Des. | Element | <u>Name</u> | Attr | <u>ibutes</u> |
| Must Use | $\overline{DTM01}$ | 374 | Date/Time Qualifier | M | ID 3/3 |
| | | | Code specifying type of date or time, or both date and time | | |
| | | | 067 Current Schedule Delivery | | |
| Must Use | DTM02 | 373 | Date | \mathbf{X} | DT 8/8 |
| | | | Date expressed as CCYYMMDD | | |

Segment: FOB F.O.B. Related Instructions

Position: 210

Loop: HL Mandatory

Level: Detail
Usage: Optional
Max Use: 1

Purpose: To specify transportation instructions relating to shipment

Syntax Notes: 1 If FOB03 is present, then FOB02 is required.

2 If FOB04 is present, then FOB05 is required.
3 If FOB07 is present, then FOB06 is required.
4 If FOB06 is the FOB06 is required.

4 If FOB08 is present, then FOB09 is required.

Semantic Notes: 1 FOB01 indicates which party will pay the carrier.

2 FOB02 is the code specifying transportation responsibility location.

3 FOB06 is the code specifying the title passage location.

4 FOB08 is the code specifying the point at which the risk of loss transfers. This may be different than the location specified in FOB02/FOB03 and FOB06/FOB07.

Comments:

Example: FOB*PP~

| | Ref. | Data | | , | | |
|----------|-------|----------------|---------------------------|---|--------------|---------------------|
| | Des. | Element | <u>Name</u> | | Attı | <u>ributes</u> |
| Must Use | FOB01 | 146 | Shipment Method | of Payment | M | $\overline{1D} 2/2$ |
| | | | Code identifying pa | yment terms for transportation charges | | |
| | | | CC | Collect | | |
| | | | CF | Collect, Freight Credited Back to Custo | mer | |
| | | | DF | Defined by Buyer and Seller | | |
| | | | PC | Prepaid but Charged to Customer | | |
| | | | PO | Prepaid Only | | |
| | | | PP | Prepaid (by Seller) | | |
| | | | TP | Third Party Pay | | |
| | FOB02 | 309 | Location Qualifier | • | \mathbf{X} | ID 1/2 |
| | | | Code identifying ty | pe of location | | |
| | | | OR | Origin (Shipping Point) | | |
| | FOB04 | 334 | Transportation Te | erms Qualifier Code | O | ID 2/2 |
| | | | Code identifying the | e source of the transportation terms | | |
| | | | 01 | Incoterms | | |
| | | | | See External Code Source 35 in Section | | |
| | | | | source reference document of INCOTE | RMS | codes, |
| | EODA5 | 225 | TD 4.4 TD | which will appear in FOB05. | T 7 | ID 2/2 |
| | FOB05 | 335 | Transportation Te | | X | ID 3/3 |
| | | | responsibility | e trade terms which apply to the shipment | t trans | sportation |
| | | | Refer to 004010VIO | CS Data Element Dictionary for acceptable | le cod | e values. |

Segment: N1 Name

Position: 220

Loop: N1 Optional

Level: Detail Usage: Optional

Max Use: 1

Purpose: To identify a party by type of organization, name, and code **Syntax Notes:** 1 At least one of N102 or N103 is required.

2 If either N103 or N104 is present, then the other is required.

Semantic Notes: 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.

N105 and N106 further define the type of entity in N101.

Notes: N103 and N104 are required except when N101 contains code MA or OB.

When the ship to is the end consumer (customer of retailer), N103 and N104 are not required.;

In some EDI implementations, it may be necessary to identify the sender and/or receiver of the transaction set within each transaction set. To identify the sender of the transaction set, N101 will contain code FR, N103 will contain code 93, and N104 will contain the actual identification number. To identify the receiver of the transaction set, N101 will contain code TO, N103 will contain code 94, and N104 will contain the actual identification number. These four codes may be used only in the combination listed above and may be used only to identify the sender and/or receiver of the transaction set.

Example:

N1*SF**1*123456789~

| | Ref. | Data | | | | | |
|----------|------|----------------|--|---|--------|-------------|--|
| | Des. | Element | <u>Name</u> | | Att | ributes | |
| Must Use | N101 | 98 | Entity Identifier | r Code | M | ID 2/3 | |
| | | | Code identifying | an organizational entity, a physical location | n, pro | perty or an | |
| | | | individual | | | | |
| | | | SF | Ship From | | | |
| Must Use | N102 | 93 | Name | 1 | X | AN 1/60 | |
| | | | Free-form name | | | | |
| | N103 | 66 | Identification C | ode Qualifier | X | ID 1/2 | |
| | | | Code designating the system/method of code structure used for Identification | | | | |
| | | | Code (67) | • | | | |
| | | | 1 | D-U-N-S Number, Dun & Bradstreet | | | |
| | | | 91 | Assigned by Seller | | | |
| | N104 | 67 | Identification C | ode | X | AN 2/80 | |
| | | | Code identifying | a party or other code | | | |
| | | | | on code as defined by N103. The location co | ode n | nay be a | |
| | | | | e.g., DUNS, or it may be assigned by either | | <u> </u> | |
| | | | | on refers to a store, warehouse, distribution | | · · | |
| | | | | are used to alleviate the need to send comple | | • | |
| | | | addresses. | are used to une that the need to being compre | IIu | | |
| | | | | | | | |

N3 Address Information **Segment:**

Position:

Loop: Level: N1 Optional

Detail Optional Usage: Max Use:

To specify the location of the named party **Purpose:**

Syntax Notes: Semantic Notes: Comments:

Example: N3*100 MAIN ST~

| | Ref. | Data | • | |
|----------|------|----------------|---------------------|-------------------|
| | Des. | Element | <u>Name</u> | <u>Attributes</u> |
| Must Use | N301 | 166 | Address Information | M AN 1/55 |
| | | | Address information | |
| | N302 | 166 | Address Information | O AN 1/55 |
| | | | Address information | |

Segment: N4 Geographic Location

Position: 250

Loop: N1 Optional

Level: Detail
Usage: Optional
Max Use: 1

Purpose: To specify the geographic place of the named party
Syntax Notes: 1 If N406 is present, then N405 is required.

Semantic Notes:

Comments: 1 A combination of either N401 through N404, or N405 and N406 may be adequate to

specify a location.

2 N402 is required only if city name (N401) is in the U.S. or Canada.

Notes: N401 and N402 are required unless N405 and N406 are used.

Example:

N4*SAN FRANCISCO*CA*94111~

| | Ref. | Data | · | | |
|-----------------|------|----------------|---|--------------|----------------|
| | Des. | Element | <u>Name</u> | Attı | <u>ributes</u> |
| Must Use | N401 | 19 | City Name | O | AN 2/30 |
| | | | Free-form text for city name | | |
| Must Use | N402 | 156 | State or Province Code | O | ID 2/2 |
| | | | Code (Standard State/Province) as defined by appropriate go | vernn | nent agency |
| Must Use | N403 | 116 | Postal Code | \mathbf{o} | ID 3/15 |
| | | | Code defining international postal zone code excluding punc | tuatio | n and blanks |
| | | | (zip code for United States) | | |
| | N404 | 26 | Country Code | O | ID 2/3 |
| | | | Code identifying the country | | |

Segment: N1 Name

Position: 220

Loop: N1 Optional

Level: Detail

Usage: Optional (Must Use)

Max Use: 1

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

Syntax Notes: 1 At least one of N102 or N103 is required.

2 If either N103 or N104 is present, then the other is required.

Semantic Notes:

Comments: 1 This segment, used alone, provides the most efficient method of providing

organizational identification. To obtain this efficiency the "ID Code" (N104) must

provide a key to the table maintained by the transaction processing party.

2 N105 and N106 further define the type of entity in N101.

Example:

N1*ST*BOSCOV*92*00015~

| | Ref. | Data | · | | |
|----------|------|----------------|--|--------------|----------------|
| | Des. | Element | <u>Name</u> | Attı | <u>ributes</u> |
| Must Use | N101 | 98 | Entity Identifier Code | \mathbf{M} | ID 2/3 |
| | | | Code identifying an organizational entity, a physical location | , prop | perty or an |
| | | | individual | | |
| | | | ST Ship To | | |
| | N102 | 93 | Name | \mathbf{X} | AN 1/60 |
| | | | Free-form name | | |
| Must Use | N103 | 66 | Identification Code Qualifier | \mathbf{X} | ID 1/2 |
| | | | Code designating the system/method of code structure used f | or Ide | entification |
| | | | Code (67) | | |
| | | | Assigned by Buyer or Buyer's Agent | | |
| Must Use | N104 | 67 | Identification Code | \mathbf{X} | AN 2/80 |
| | | | Code identifying a party or other code | | |
| | | | Boscov's five digit store number (may have leading zeroes). | | |

N3 Address Information **Segment:**

Position:

Loop: Level: N1 Optional

Detail Optional Usage: Max Use:

To specify the location of the named party **Purpose:**

Syntax Notes: Semantic Notes: Comments:

Example: N3*100 MAIN ST~

| | Ref. | Data | • | |
|----------|------|----------------|---------------------|-------------------|
| | Des. | Element | <u>Name</u> | <u>Attributes</u> |
| Must Use | N301 | 166 | Address Information | M AN 1/55 |
| | | | Address information | |
| | N302 | 166 | Address Information | O AN 1/55 |
| | | | Address information | |

Segment: N4 Geographic Location

Position: 250

Loop: N1 Optional

Level: Detail
Usage: Optional
Max Use: 1

Purpose: To specify the geographic place of the named party
Syntax Notes: 1 If N406 is present, then N405 is required.

Semantic Notes:

Comments: 1 A combination of either N401 through N404, or N405 and N406 may be adequate to

specify a location.

2 N402 is required only if city name (N401) is in the U.S. or Canada.

Notes: N401 and N402 are required unless N405 and N406 are used.

Example:

N4*SAN FRANCISCO*CA*94111~

| | Ref. | Data | · | | |
|-----------------|------|----------------|--|--------|----------------|
| | Des. | Element | <u>Name</u> | Attı | <u>ributes</u> |
| Must Use | N401 | 19 | City Name | O | AN 2/30 |
| | | | Free-form text for city name | | |
| Must Use | N402 | 156 | State or Province Code | O | ID 2/2 |
| | | | Code (Standard State/Province) as defined by appropriate go | vernn | nent agency |
| Must Use | N403 | 116 | Postal Code | O | ID 3/15 |
| | | | Code defining international postal zone code excluding punct | tuatio | n and blanks |
| | | | (zip code for United States) | | |
| | N404 | 26 | Country Code | O | ID 2/3 |
| | | | Code identifying the country | | |

Segment: **HL** Hierarchical Level - Order

Position: 010

Loop: HL Mandatory

Level: Detail
Usage: Mandatory

Max Use:

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

segments

Syntax Notes: Semantic Notes: 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 lineitem data.

The HL segment defines a top-down/left-right ordered structure.

- 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.

Notes:

The HL segment is used to identify levels of detail information using a hierarchical structure.

HL01 shall contain a unique number for each occurrence of the HL segment within the transaction set. The value assigned to the first HL segment will be 1, and is incremented by one for each subsequent HL segment within the transaction set.

HL02 identifies the hierarchical ID of the HL segment to which it is subordinate (child of). HL02 will be omitted for the first occurrence of the HL segment in the transaction set, since it has no parent. HL03 identifies the application content of the series of segments following the current HL segment up to the next occurrence of an HL segment, or the CTT or SE segment, e.g., Shipment, Unit Load, Order, Tare, Pack and Item.

Example: HL*2*1*O~

| | Ref. | Data | Data Element Summary | | |
|----------|------|----------------|--|-------------|----------------|
| | Des. | Element | <u>Name</u> | <u>Attr</u> | <u>ributes</u> |
| Must Use | HL01 | 628 | Hierarchical ID Number | M | AN 1/12 |
| | | | A unique number assigned by the sender to identify a particular a hierarchical structure | lar da | ta segment in |
| Must Use | HL02 | 734 | Hierarchical Parent ID Number | O | AN 1/12 |
| | | | Identification number of the next higher hierarchical data seg segment being described is subordinate to | ment | that the data |
| Must Use | HL03 | 735 | Hierarchical Level Code | M | ID 1/2 |
| | | | Code defining the characteristic of a level in a hierarchical str | ructur | e |
| | | | O Order | | |
| | HL04 | 736 | Hierarchical Child Code | O | ID 1/1 |
| | | | Code indicating if there are hierarchical child data segments a level being described Refer to 004010VICS Data Element Dictionary for acceptable | | |

Segment: PRF Purchase Order Reference

Position: 050

Loop: HL Mandatory

Level: Detail

Usage: Optional (Must Use)

Max Use:

Purpose: To provide reference to a specific purchase order

Syntax Notes:

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

Comments:

Example:

PRF*835490***20000114~

| | Ref. | Data | · | | |
|----------|-------|----------------|---|--------------|----------------|
| | Des. | Element | <u>Name</u> | Attı | <u>ributes</u> |
| Must Use | PRF01 | 324 | Purchase Order Number | \mathbf{M} | AN 1/22 |
| | | | Identifying number for Purchase Order assigned by the order | er/pui | rchaser |
| | | | Boscov's 6-digit purchase order number (may use leading zer | os) | |
| | PRF04 | 373 | Date | O | DT 8/8 |
| | | | Date expressed as CCYYMMDD | | |
| | | | Retailer's original purchase order date | | |
| | | | | | |

Segment: REF Reference Identification

Position: 150

Loop: HL Mandatory

Level: Detail

Usage: Optional (Must Use)

Max Use: >1

Purpose: To specify identifying information

Syntax Notes: 1 At least one of REF02 or REF03 is required.

If either C04003 or C04004 is present, then the other is required. If either C04005 or C04006 is present, then the other is required.

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

Comments:

Example:

REF*DP*00131~

| | Ref. | Data | · | | | |
|-----------------|-------|----------------|---|--------------|---------------|--|
| | Des. | Element | <u>Name</u> | Attr | <u>ibutes</u> | |
| Must Use | REF01 | 128 | Reference Identification Qualifier | M | ID 2/3 | |
| | | | Code qualifying the Reference Identification | | | |
| | | | DP Department Number | | | |
| Must Use | REF02 | 127 | Reference Identification | \mathbf{X} | AN 1/30 | |
| | | | Reference information as defined for a particular Transaction Set or as | | | |
| | | | specified by the Reference Identification Qualifier | | | |
| | | | Boscov's 5 digit Department Number (must use leading zero | es). | | |

Segment: REF Reference Identification

Position: 150

> Loop: HLMandatory

Level: Detail Usage: Optional Max Use: >1

Purpose: To specify identifying information

Syntax Notes: At least one of REF02 or REF03 is required.

2 If either C04003 or C04004 is present, then the other is required.

If either C04005 or C04006 is present, then the other is required. 3

Semantic Notes: REF04 contains data relating to the value cited in REF02.

Comments:

Example:

REF*IV*807764626~

| Must Use | Ref. <u>Des.</u> REF01 | Data Element 128 | Name Reference Identification Qualifier | Attr M | ributes ID 2/3 |
|----------|------------------------------|------------------|---|------------|----------------------|
| | | | Code qualifying the Reference Identification IV Seller's Invoice Number | | |
| Must Use | REF02 | 127 | Reference Identification Reference information as defined for a particular Transaction specified by the Reference Identification Qualifier | X Set o | AN 1/30 or as |

Segment: N1 Name

Position: 220

Loop: N1 Optional

Level: Detail

Usage: Optional (Must Use)

Max Use:

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

Syntax Notes: 1 At least one of N102 or N103 is required.

2 If either N103 or N104 is present, then the other is required.

Semantic Notes:

Comments:

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

2 N105 and N106 further define the type of entity in N101.

Notes: There will be at least one occurrence, of this segment, to identify the buying party by

using code BY in N101.

Example:

N1*BY**92*00014~

| | Ref. | Data | | | |
|-----------------|------|----------------|--|--------------|----------------|
| | Des. | Element | Name | Attı | <u>ributes</u> |
| Must Use | N101 | 98 | Entity Identifier Code | \mathbf{M} | ID 2/3 |
| | | | Code identifying an organizational entity, a physical locatio individual | n, prop | perty or an |
| | | | BY Buying Party (Purchaser) | | |
| | N102 | 93 | Name | \mathbf{X} | AN 1/60 |
| | | | Free-form name | | |
| Must Use | N103 | 66 | Identification Code Qualifier | \mathbf{X} | ID 1/2 |
| | | | Code designating the system/method of code structure used Code (67) | for Ide | entification |
| | | | 92 Assigned by Buyer or Buyer's Agent | | |
| Must Use | N104 | 67 | Identification Code Code identifying a party or other code | X | AN 2/80 |
| | | | Boscov's five digit store # (must use leading zeroes). | | |

Segment: **HL** Hierarchical Level - Tare

Position: 010

Loop: HL Mandatory

Level: Detail
Usage: Optional
Max Use: 1

Purpose:

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

segments

Syntax Notes: Semantic Notes: Comments:

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.

The HL segment defines a top-down/left-right ordered structure.

- 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.

Notes:

The HL segment is used to identify levels of detail information using a hierarchical structure.

HL01 shall contain a unique number for each occurrence of the HL segment within the transaction set. The value assigned to the first HL segment will be 1, and is incremented by one for each subsequent HL segment within the transaction set.

HL02 identifies the hierarchical ID of the HL segment to which it is subordinate (child of). HL02 will be omitted for the first occurrence of the HL segment in the transaction set, since it has no parent. HL03 identifies the application content of the series of segments following the current HL segment up to the next occurrence of an HL segment, or the CTT or SE segment, e.g., Shipment, Unit Load, Order, Tare, Pack and Item.

Example:

HL*3*2*T~

| | | | Bata Element Summary | | |
|----------|------|----------------|---|--------|----------------|
| | Ref. | Data | | | |
| | Des. | Element | <u>Name</u> | Attr | <u>ributes</u> |
| Must Use | HL01 | 628 | Hierarchical ID Number | M | AN 1/12 |
| | | | A unique number assigned by the sender to identify a particu a hierarchical structure | lar da | ta segment in |
| Must Use | HL02 | 734 | Hierarchical Parent ID Number | O | AN 1/12 |
| | | | Identification number of the next higher hierarchical data seg segment being described is subordinate to | ment | that the data |
| Must Use | HL03 | 735 | Hierarchical Level Code | M | ID 1/2 |
| | | | Code defining the characteristic of a level in a hierarchical st | ructui | re |
| | | | T Shipping Tare | | |
| | HL04 | 736 | Hierarchical Child Code | O | ID 1/1 |
| | | | Code indicating if there are hierarchical child data segments subordinate to the level being described | | |
| | | | Refer to 004010VICS Data Element Dictionary for acceptable | le cod | e values. |

Segment: TSD Trailer Shipment Details

Position: 145

Loop: HL Mandatory

Level: Detail
Usage: Optional
Max Use: 1

Purpose: To specify details of shipments on a trailer

Syntax Notes: Semantic Notes:

Comments:

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

Notes: This segment may be used to indicate the location of the pallet within the trailer/container.

Example: TSD*001*1

| | Ref. | Data | | |
|-----------------|-------|----------------|---|-------------------|
| | Des. | Element | <u>Name</u> | <u>Attributes</u> |
| | TSD01 | 350 | Assigned Identification | O AN 1/20 |
| | | | Alphanumeric characters assigned for differentiation within a | a transaction set |
| | | | Indicates the loading sequence | |
| Must Use | TSD02 | 219 | Position | O AN 1/3 |
| | | | Relative position of shipment in car, trailer, or container (mu | tually defined) |
| | | | 1 First quarter of the trailer/container | |
| | | | 2 Second quarter of the trailer/container | |
| | | | 3 Third quarter of the trailer/container | |
| | | | 4 Fourth quarter of the trailer/container | |

Segment: MAN Marks and Numbers

Position: 190

Loop: HL Mandatory

Level: Detail
Usage: Optional
Max Use: >1

Purpose: To indicate identifying marks and numbers for shipping containers
Syntax Notes: 1 If either MAN04 or MAN05 is present, then the other is required.

2 If MAN06 is present, then MAN05 is required.

Semantic Notes: 1 MAN01/MAN02 and MAN04/MAN05 may be used to identify two different marks

and numbers assigned to the same physical container.

2 When both MAN02 and MAN03 are used, MAN02 is the starting number of a sequential range and MAN03 is the ending number of that range.

3 When both MAN05 and MAN06 are used, MAN05 is the starting number of a sequential range, and MAN06 is the ending number of that range.

Comments: 1 When MAN01 contains code "UC" (U.P.C. Shipping Container Code) and

MAN05/MAN06 contain a range of ID numbers, MAN03 is not used. The reason for this is that the U.P.C. Shipping Container code is the same on every carton that is represented in the range in MAN05/MAN06.

2 MAN03 and/or MAN06 are only used when sending a range(s) of ID numbers. When both MAN02/MAN03 and MAN05/MAN06 are used to send ranges of ID numbers, the integrity of the two ID numbers must be maintained.

Notes: This segment, at the tare level, is used to specify the identification numbers for the

pallet.;

Example:

MAN*GM*00107000320000113901~

| | Ref. | Data | | | |
|-----------------|-------|----------------|---------------------|--|---------------|
| | Des. | Element | <u>Name</u> | Attr | <u>ibutes</u> |
| Must Use | MAN01 | 88 | Marks and Numbe | rs Qualifier M | ID 1/2 |
| | | | Code specifying the | application or source of Marks and Numbers (8 | 87) |
| | | | CP | Customer Package – UPS Tracking Number | |
| | | | GM | SSCC-18 and Application Identifier | |
| | | | | This is a twenty-character UCC/EAN-128 Ser | ial |
| | | | | Shipping Container Code (SSCC-18) that incl | udes the |
| | | | | two digit application identifier. The symbolog | y code and |
| | | | | the modulo 103 check digit are not included. | |
| Must Use | MAN02 | 87 | Marks and Numbe | rs M | AN 1/48 |
| | | | Marks and numbers | used to identify a shipment or parts of a shipment | ent |

PAL Pallet Information **Segment:**

Position:

Loop: HLMandatory

Level: Detail Usage: Optional Max Use:

Purpose:

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

and height of the load and the pallet

If either PAL05 or PAL06 is present, then the other is required. **Syntax Notes:**

If PAL07 is present, then PAL10 is required. If PAL08 is present, then PAL10 is required. 4 If PAL09 is present, then PAL10 is required.

5 If PAL10 is present, then at least one of PAL07 PAL08 or PAL09 is required.

If either PAL11 or PAL12 is present, then the other is required. 7 If either PAL13 or PAL14 is present, then the other is required.

Semantic Notes: PAL04 (Pack) is the number of pieces on the pallet. 1

2 PAL05 (Unit Weight) is the weight of the pallet alone, before loading.

3 PAL07 and PAL08 (Length and Width) are the dimensions of the pallet before

PAL09 (Height) is the height of the pallet and load.

PAL11 and PAL13 (Gross Weight and Gross Volume) are measured after loading and includes the pallet.

Comments:

Example:

PAL*4*4*9*36

| | Ref. | Data | • | | |
|----------|-------|----------------|---|---------|----------------|
| | Des. | Element | <u>Name</u> | Att | <u>ributes</u> |
| Must Use | PAL01 | 883 | Pallet Type Code | 0 | ID 1/2 |
| | | | Code indicating the type of pallet | | |
| | | | 4 Standard | | |
| | PAL02 | 884 | Pallet Tiers | O | N0 1/3 |
| | | | The number of layers per pallet | | |
| | PAL03 | 885 | Pallet Blocks | O | N0 1/3 |
| | | | The number of pieces (cartons) per layer on the pallet | | |
| Must Use | PAL04 | 356 | Pack | O | N0 1/6 |
| | | | The number of inner containers, or number of eaches if ther | e are n | o inner |
| | | | containers, per outer container | | |
| | | | Number of cartons on pallet | | |

Segment: **HL** Hierarchical Level - Pack

Position: 010

Loop: HL Mandatory

Level: Detail
Usage: Mandatory

Max Use:

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

segments

Syntax Notes: Semantic Notes: Comments:

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.

The HL segment defines a top-down/left-right ordered structure.

- 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.

Notes:

The HL segment is used to identify levels of detail information using a hierarchical structure.

HL01 shall contain a unique number for each occurrence of the HL segment within the transaction set. The value assigned to the first HL segment will be 1, and is incremented by one for each subsequent HL segment within the transaction set.

HL02 identifies the hierarchical ID of the HL segment to which it is subordinate (child of). HL02 will be omitted for the first occurrence of the HL segment in the transaction set, since it has no parent. HL03 identifies the application content of the series of segments following the current HL segment up to the next occurrence of an HL segment, or the CTT or SE segment, e.g., Shipment, Unit Load, Order, Tare, Pack and Item.

Example:

HL*4*3*P~

| | | | Data Element Summary | | | |
|------------|-------|----------------|--|--------------|------------------|--|
| | Ref. | Data | | | | |
| | Des. | Element | Name Att | | <u>ttributes</u> | |
| Must Use | HL01 | 628 | Hierarchical ID Number | M | AN 1/12 | |
| | | | A unique number assigned by the sender to identify a partic a hierarchical structure | ular da | nta segment in | |
| Must Use | HL02 | 734 | Hierarchical Parent ID Number | \mathbf{o} | AN 1/12 | |
| | | | Identification number of the next higher hierarchical data se segment being described is subordinate to | gment | that the data | |
| Must Use | HL03 | 735 | Hierarchical Level Code | M | ID 1/2 | |
| iviase ese | 11200 | ,,,, | Code defining the characteristic of a level in a hierarchical s | | | |
| | | | P Pack | | | |
| | HL04 | 736 | Hierarchical Child Code | 0 | ID 1/1 | |
| | | | Code indicating if there are hierarchical child data segments level being described Refer to 004010VICS Data Element Dictionary for acceptal | | | |

Segment: MAN Marks and Numbers

Position: 190

Loop: HL Mandatory

Level: Detail

Usage: Optional (Must Use)

Max Use: >1

Purpose: To indicate identifying marks and numbers for shipping containers
Syntax Notes: 1 If either MAN04 or MAN05 is present, then the other is required.

2 If MAN06 is present, then MAN05 is required.

Semantic Notes:

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

Comments:

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

Notes:

When the shipping container is the same as the consumer unit, the U.P.C. may be the only UCC identification code on the container. In many applications, it is necessary to positively identify what identification code is to be scanned and matched at point of receipt. Since the U.P.C. is not a unique serial shipping container code, only one pack level for each item is required when using the pick and pack structure. The total number of shipping units for this item is the same as the quantity for the item in the SN1 segment at the item level.

Example:

MAN*GM*00007000320000113906~

Data Element Summary

| | Ref. | Data | | | | | | |
|-----------------|-------|----------------|--|---|-------------------|--|--|--|
| | Des. | Element | <u>Name</u> | | Attributes | | | |
| Must Use | MAN01 | 88 | Marks and Num | ıbers Qualifier | M ID 1/2 | | | |
| | | | Code specifying the application or source of Marks and Numbers (87) | | | | | |
| | | | GM | SSCC-18 and Application Identifier | | | | |
| | | | | This is a twenty-character UCC/EAN-128 Serial | | | | |
| | | | | Shipping Container Code (SSCC-18) that includes the | | | | |
| | | | | two digit application identifier. The sy | mbology code and | | | |
| | | | | the modulo 103 check digit are not inc | cluded. | | | |
| Must Use | MAN02 | 87 | Marks and Num | ibers | M AN 1/48 | | | |
| | | | Marks and numbers used to identify a shipment or parts of a shipment | | | | | |

Boscov's 856 Pick Pack.doc

Segment: HL Hierarchical Level - Item

Position: 010

Loop: HL Mandatory

Level: Detail
Usage: Mandatory

Max Use:

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

segments

Syntax Notes: Semantic Notes: 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 lineitem data.

The HL segment defines a top-down/left-right ordered structure.

- 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.

Notes:

The HL segment is used to identify levels of detail information using a hierarchical structure.

HL01 shall contain a unique number for each occurrence of the HL segment within the transaction set. The value assigned to the first HL segment will be 1, and is incremented by one for each subsequent HL segment within the transaction set.

HL02 identifies the hierarchical ID of the HL segment to which it is subordinate (child of). HL02 will be omitted for the first occurrence of the HL segment in the transaction set, since it has no parent. HL03 identifies the application content of the series of segments following the current HL segment up to the next occurrence of an HL segment, or the CTT or SE segment, e.g., Shipment, Unit Load, Order, Tare, Pack and Item.

Example:

HL*5*4*I~

| | | | Data Element Summary | | | | |
|----------|-----------------------|--|--|-------------|----------------|--|--|
| | Ref. | Data | | | | | |
| | Des. | Element | <u>Name</u> | <u>Attr</u> | <u>ributes</u> | | |
| Must Use | HL01 | 628 | Hierarchical ID Number | M | AN 1/12 | | |
| | | | A unique number assigned by the sender to identify a particula hierarchical structure | ar da | ta segment in | | |
| Must Use | HL02 | 734 | Hierarchical Parent ID Number | O | AN 1/12 | | |
| | | | Identification number of the next higher hierarchical data seg segment being described is subordinate to | ment | that the data | | |
| Must Use | HL03 | 735 | Hierarchical Level Code | M | ID 1/2 | | |
| | | | Code defining the characteristic of a level in a hierarchical str | uctur | e | | |
| | | | I Item | | | | |
| | HL04 | 736 | Hierarchical Child Code | O | ID 1/1 | | |
| | | Code indicating if there are hierarchical child data segments subordinate to the | | | | | |
| | level being described | | | | | | |
| | | | Refer to 004010VICS Data Element Dictionary for acceptable code values. | | | | |

Segment: LIN Item Identification

Position: 020

Loop: HL Mandatory

Level: Detail

Usage: Optional (Must Use)

Max Use: 1

Purpose: To specify basic item identification data

Syntax Notes: 1 If either LIN04 or LIN05 is present, then the other is required.

- If either LIN06 or LIN07 is present, then the other is required.
- 3 If either LIN08 or LIN09 is present, then the other is required.
- 4 If either LIN10 or LIN11 is present, then the other is required.
- 5 If either LIN12 or LIN13 is present, then the other is required.
- 6 If either LIN14 or LIN15 is present, then the other is required.
- 7 If either LIN16 or LIN17 is present, then the other is required.
- **8** If either LIN18 or LIN19 is present, then the other is required.
- 9 If either LIN20 or LIN21 is present, then the other is required.
- 10 If either LIN22 or LIN23 is present, then the other is required.
- 11 If either LIN24 or LIN25 is present, then the other is required.
- 12 If either LIN26 or LIN27 is present, then the other is required.
- 13 If either LIN28 or LIN29 is present, then the other is required.
- **14** If either LIN30 or LIN31 is present, then the other is required.

Semantic Notes: Comments:

1 LIN01 is the line item identification

1 See the Data Dictionary for a complete list of IDs.

2 LIN02 through LIN31 provide for fifteen different product/service IDs for each item. For example: Case, Color, Drawing No., U.P.C. No., ISBN No., Model No., or SKU.

Notes:

The codes listed for LIN02 apply to every occurrence of Data Element 235 in the LIN

segment.

See Section III for complete U.P.C. and EAN code definitions.

Example:

LIN**UP*700032591261*VA*20191~

| | Ref. | Data | N | , | A 44 | •14 | | |
|-----------------|-------------|-------------|-------------------------|--|--------------|------------------|--|--|
| Must Use | <u>Des.</u> | Element 225 | Name Product/Sorvice II | Onelifier | Attr M | ibutes ID 2/2 | | |
| Must Use | LIN02 | 235 | Product/Service II | - | | ID 2/2 | | |
| | | | • • | e type/source of the descriptive number us | sea in | | | |
| | | | Product/Service ID | | | | | |
| | | | EN | European Article Number (EAN) (2-5-5 | , | | | |
| | | | SZ | Vendor Alphanumeric Size Code (NRM | (A) | | | |
| | | | | This is the code assigned by the vendor. | | | | |
| | | | UP | UP U.P.C. Consumer Package Code (1-5-5-1) | | | | |
| | | | VA | Vendor's Style Number | | | | |
| | | | VE | Vendor Color | | | | |
| Must Use | LIN03 | 234 | Product/Service ID | | M | AN 1/48 | | |
| | | | Identifying number | for a product or service | | | | |
| | LIN04 | 235 | Product/Service ID | Qualifier | X | ID 2/2 | | |
| | | | Code identifying the | e type/source of the descriptive number us | sed in | | | |
| | | | Product/Service ID | (234) | | | | |
| | | | EN | European Article Number (EAN) (2-5-5 | (-1) | | | |
| | | | SZ | Vendor Alphanumeric Size Code (NRM | (A) | | | |
| | | | UP | U.P.C. Consumer Package Code (1-5-5- | | | | |
| | | | VA | Vendor's Style Number | | | | |
| | | | VE | Vendor Color | | | | |
| | LIN05 | 234 | Product/Service ID | | X | AN 1/48 | | |
| | | | Identifying number | for a product or service | | | | |
| | LIN06 | 235 | Product/Service ID | Qualifier Qualifier | \mathbf{X} | ID 2/2 | | |
| | | | Code identifying the | e type/source of the descriptive number us | sed in | | | |

| | | Product/Service ID | (234) | | |
|-------|-----|---------------------|--|------|---------|
| | | EN | European Article Number (EAN) (2-5-5- | 1) | |
| | | SZ | Vendor Alphanumeric Size Code (NRMA | 1) | |
| | | UP | U.P.C. Consumer Package Code (1-5-5-1 |) | |
| | | VA | Vendor's Style Number | | |
| | | VE | Vendor Color | | |
| LIN07 | 234 | Product/Service I | D | X | AN 1/48 |
| | | Identifying number | r for a product or service | | |
| LIN08 | 235 | Product/Service I | D Qualifier | X | ID 2/2 |
| | | Code identifying th | ne type/source of the descriptive number use | d in | l |
| | | Product/Service ID | 0 (234) | | |
| | | EN | European Article Number (EAN) (2-5-5- | 1) | |
| | | SZ | Vendor Alphanumeric Size Code (NRMA | 1) | |
| | | UP | U.P.C. Consumer Package Code (1-5-5-1 |) | |
| | | VA | Vendor's Style Number | | |
| | | VE | Vendor Color | | |
| LIN09 | 234 | Product/Service I | D | X | AN 1/48 |
| | | Identifying number | r for a product or service | | |
| LIN10 | 235 | Product/Service I | D Qualifier | X | ID 2/2 |
| | | Code identifying th | ne type/source of the descriptive number use | d in | l |
| | | Product/Service ID | (234) | | |
| | | EN | European Article Number (EAN) (2-5-5- | 1) | |
| | | SZ | Vendor Alphanumeric Size Code (NRMA | 1) | |
| | | UP | U.P.C. Consumer Package Code (1-5-5-1 |) | |
| | | VA | Vendor's Style Number | | |
| | | VE | Vendor Color | | |
| LIN11 | 234 | Product/Service I | D | X | AN 1/48 |
| | | Identifying number | r for a product or service | | |
| | | | | | |

SN1 Item Detail (Shipment) **Segment:**

Position:

Loop: HLMandatory

Level: Detail

Usage: Optional (Must Use)

Max Use:

Purpose: To specify line-item detail relative to shipment

Syntax Notes: If either SN105 or SN106 is present, then the other is required.

Semantic Notes: SN101 is the ship notice line-item identification.

SN103 defines the unit of measurement for both SN102 and SN104. **Comments: Notes:**

This segment is used to specify the quantities associated with the item identified in the LIN at the item level.

When specifying an item, which is comprised of two or more components that are in unique shipping containers, SN103 will contain code ST for set and the quantity specified in SN102 is the number of sets as identified in the LIN segment. Each different component is identified in one pack level. See the VICS Note, on the SLN segment, at the pack level.

Example:

SN1**1*EA~

| | Ref. Des. | Data Element | Name | • | Δttr | ributes |
|-----------------|--------------|-----------------|---------------------------------------|---|--------------|----------------|
| | SN101 | 350 | Assigned Identific | eation | 0 | AN 1/20 |
| | DIVIOI | 220 | 0 | racters assigned for differentiation within a | • | |
| Must Use | SN102 | 382 | Number of Units | Shipped | \mathbf{M} | R 1/10 |
| | | | Numeric value of u or transaction set | units shipped in manufacturer's shipping un | nits fo | or a line item |
| Must Use | SN103 | 355 | Unit or Basis for l | Measurement Code | \mathbf{M} | ID 2/2 |
| | | | Code specifying th | e units in which a value is being expressed | d, or r | nanner in |
| | | | which a measurem | ent has been taken | | |
| | | | See Section III for | code list. | | |
| | | | CA | Case | | |
| | | | DZ | Dozens | | |
| | | | EA | Each | | |
| | | | PK | Pack | | |
| | | | PR | Pair | | |

Segment: CTT Transaction Totals

Position: 010

Loop:

Level: Summary

Usage: Optional (Must Use)

Max Use: 1

Purpose: To transmit a hash total for a specific element in the transaction set
 Syntax Notes: 1 If either CTT03 or CTT04 is present, then the other is required.
 2 If either CTT05 or CTT06 is present, then the other is required.

Semantic Notes:

Comments: 1 This segment is intended to provide hash totals to validate transaction completeness

and correctness.

Example: CTT*9~

| | Ref. | Data | • | | |
|----------|-------|----------------|--|--------------|---------------|
| | Des. | Element | <u>Name</u> | Attı | <u>ibutes</u> |
| Must Use | CTT01 | 354 | Number of Line Items | \mathbf{M} | N0 1/6 |
| | | | Total number of line items in the transaction set | | |
| | | | The number of HL segments present in the transaction set | | |

Segment: **SE** Transaction Set Trailer

Position: 020

Loop:

Level: Summary Usage: Mandatory

Max Use: 1

Purpose: To indicate the end of the transaction set and provide the count of the transmitted

segments (including the beginning (ST) and ending (SE) segments)

Syntax Notes:

Semantic Notes:

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

Example:

SE*40*856000706~

| | Ref. Des. | Data Element | Name | Attr | ributes | | | |
|----------|--------------|-----------------|---|--------------|----------|--|--|--|
| | | | | Au | | | | |
| Must Use | SE01 | 96 | Number of Included Segments | M | N0 1/10 | | | |
| | | | Total number of segments included in a transaction set include segments | ling S | T and SE | | | |
| Must Use | SE02 | 329 | Transaction Set Control Number | \mathbf{M} | AN 4/9 | | | |
| | | | Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set | | | | | |
| | | | This must be the same number as is in the ST segment (ST02 transaction set. | e) for t | the | | | |

Segment: \mathbf{GE} Functional Group Trailer

Position: 030

Loop: Level:

Usage: Mandatory

Max Use: 1

Purpose: To indicate the end of a functional group and to provide control information

Syntax Notes: Semantic Notes:

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

Comments:

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

| | Ref. | Data | | | | |
|-----------------|------|----------------|--|-------------------|----------------|--|
| | Des. | Element | <u>Name</u> | Attributes | | |
| Must Use | GE01 | 97 | Number of Transaction Sets Included | M | N0 1/6 | |
| | | | Total number of transaction sets included in the functional g | roup c | or interchange | |
| | | | (transmission) group terminated by the trailer containing this | s data | element | |
| Must Use | GE02 | 28 | Group Control Number | \mathbf{M} | N0 1/9 | |
| | | | Assigned number originated and maintained by the sender | | | |

Segment: IEA Interchange Control Trailer

Position: 040

Loop:

Level:

Usage: Mandatory

Max Use: 1

Purpose: To define the end of an interchange of zero or more functional groups and interchange-

related control segments

Syntax Notes: Semantic Notes: Comments:

| | Ref. | Data | · | | |
|----------|-------|----------------|--|--------|---------------|
| | Des. | Element | <u>Name</u> | Attı | <u>ibutes</u> |
| Must Use | IEA01 | I16 | Number of Included Functional Groups | M | N0 1/5 |
| | | | A count of the number of functional groups included in an ir | iterch | ange |
| Must Use | IEA02 | I12 | Interchange Control Number | M | N0 9/9 |
| | | | A control number assigned by the interchange sender | | |

Example

Sample Ship Notice/Manifest Transaction

ST*856*856000706~

BSN*00*007111*20001031*0745*0001~

HL*1**S~

TD1*BAG*7****G*147*LB~

TD5*O*2*CENF~

TD3*TL**123456~

REF*BM*13828700000A~

REF*LO*123456~

DTM*011*20000202~

DTM*067*20000202~

FOB*PP~

N1*ST*BOSCOV*92*00015~

HL*2*1*O~

PRF*835490***20000114~

REF*DP*00482~

REF*IV*807764626~

N1*BY**92*00014~

HL*3*2*T~

TSD*001*1~

MAN*GM*00107000320000113901~

PAL*4*4*9*36~

HL*4*3*P~

MAN*GM*00007000320000113906~

HL*5*4*I~

LIN**UP*700032591261*VA*20191~

SN1**1*EA~

HL*6*2*T~

MAN*GM*00107000320000113831~

HL*7*6*P~

MAN*GM*00007000320000113838~

HL*8*7*I~

LIN**UP*700032591285*VA*20195~

SN1**2*EA~

HL*9*7*I~

LIN**UP*700032591339*VA*20205~

SN1**1*EA~

CTT*9~

SE*40*856000706~