

856 Ship Notice/ Manifest

Introduction

The purpose of this section is to present and explain the application of the ASC X12 standards as they pertain to the retail industry implementation of the Ship Notice/Manifest Transaction Set.

The use of this transaction is to provide the retailer with advance data on the shipments so the retailer may better plan workloads and receipt processing. The key word is "advance". Therefore, in the implementation of the transaction the latest the ship notice may be sent is the time of shipment. In practice the ship notice must arrive before the shipment.

The scope of the ship notice, within the retail industry, will not exceed the scope of the associated bill of lading. There can be more than one ship notice with one bill of lading. The bill of lading is not applicable when using small package service carriers. In this case, the ship notice will only represent one ship from/ship to combination.

The bill of lading is a legal shipping document which is the contract between the shipper and the carrier. The ship notice is not a legal document nor is it between shipper and carrier. The ship notice is not a replacement for the bill of lading.

There are two predominant methods of merchandise packaging within the retail industry. These are commonly known as:

- **Pick and Pack** — where different SKUs are packed within the container, and
- **Standard Carton Pack** — where identical SKUs are packed within the container.

The retail industry has identified six hierarchical levels for use within the Ship Notice/Manifest transaction set. The following are the definitions of these levels:

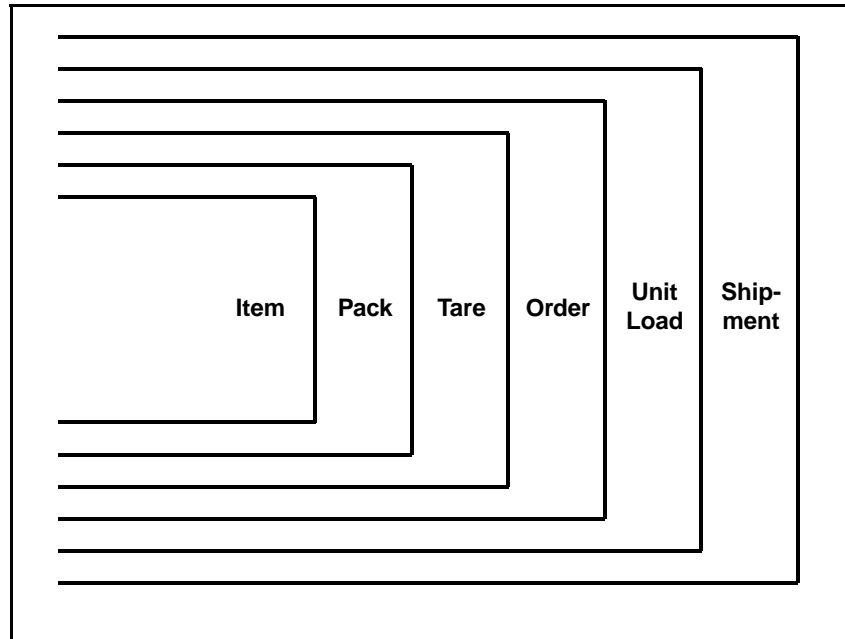
Name	Code	Description
SHIPMENT	S	Data that applies to the whole shipment, such as bill of lading number, lading quantity, supplier code, etc.
UNIT LOAD	UT	The Unit load level is used to identify a physical shipping unit which is marked with a UCC/EAN serial shipping container code, and, consists of transport packages marked for multiple final destinations.
ORDER	O	Data related to the sender's order and the associated receiver's original purchase order.
TARE	T	The tare level is used to identify pallets. These pallets are being shipped to a single final destination. If there are no identifiable pallets, this level may be omitted.
PACK	P	The pack level is used to identify the cartons, racks, bags, etc., in which the item is shipped, e.g. label serial numbers. In most cases there will be some sort of packs.
ITEM	I	SKU identification data. If identical SKUs are packed using unidentifiable inner packs, i.e. four six-packs to a case, this can be related at this level.

The retail industry implementation of the Ship Notice/Manifest transaction set supports both methods of merchandise shipment packaging with two distinct hierarchical structures. Each structure contains the same levels, i.e. Shipment, Unit Load, Order, Tare, Pack, and Item, and the usage of the segments within each level are the same. The only difference is the order in which the levels may appear within the transaction set. BSN05 informs the receiver, after reading the BSN segment, of the structure of the transaction set. The essential difference in the two structures is where the Item level appears.

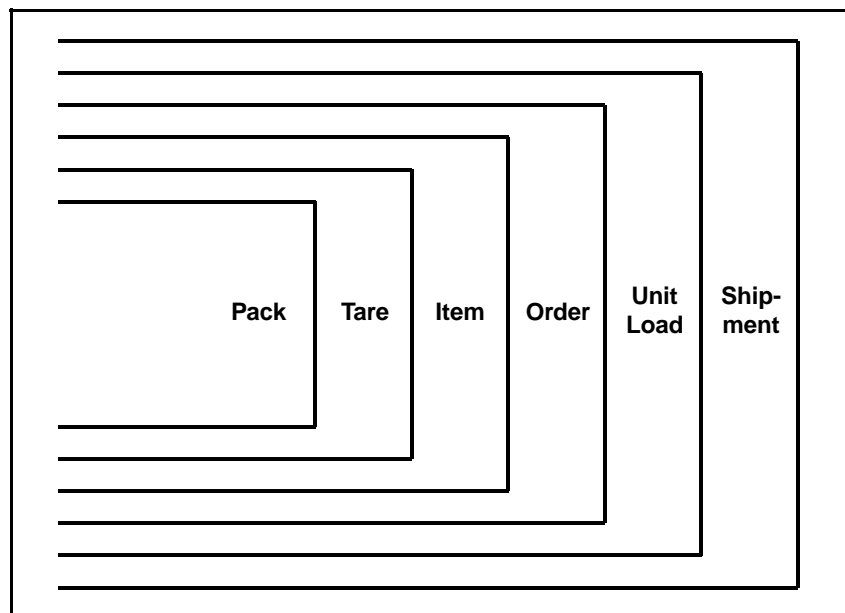
The actual structure for the ship notice transaction set is determined by the sender of the transaction set. Realizing, as with any transaction, that the needs of all the receivers and the capabilities of the sender's systems must be balanced when determining the final format. The relationship of a physical shipment to the shipment level of the transaction set is not always one to one. Some senders may have the capability of sending only one ship notice for each ship from/ship to combination. Other implementations may send multiple transactions for one bill of lading. An example of this would be where the ship notice transaction represents a sender's order level packing slip. Another variation of this is when a small package service carrier is used. The ship notice may have several cartons from one location with the same delivery location, however, from the package service carrier perspective, each carton is a shipment. It is

important to recognize these conditions and not assume one ship notice, one physical shipment.

For the Pick and Pack Structure, the Item is the lowest level, i.e., the specification of the SKU is always within the shipment container. The order of the hierarchical levels are Shipment, Unit Load, Order, Tare, Pack, and Item.



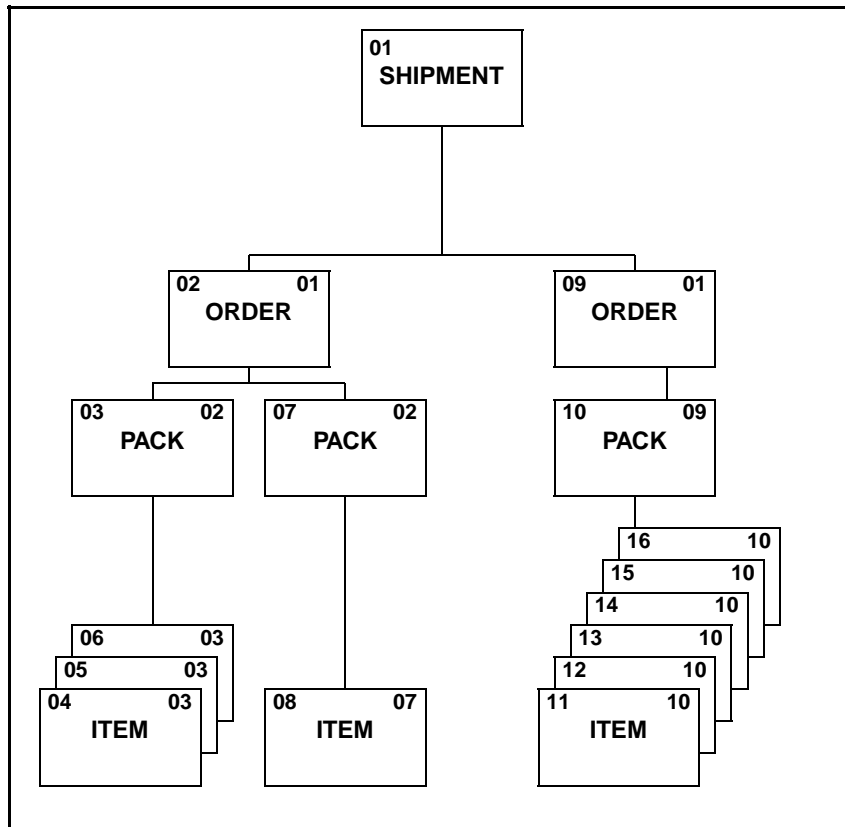
For the Standard Carton Pack Structure, the Item is between the Order level and the Tare level, i.e., the specification of the shipment containers is always within the SKU. The SKU is specified, then all of the shipping containers for the SKUs are identified. The order of the hierarchical levels are Shipment, Unit Load, Order, Item, Tare, and Pack.



The following are examples of both the Pick/Pack and the Standard Carton Pack hierarchical structures.

Pick and Pack Structure Example

In this Pick and Pack Structure example, the shipment contains two orders. The first order has two cartons. The first carton contains three items (SKUs), the second carton contains one SKU. The second order contains one carton with 6 SKUs in the carton. Each box represents one hierarchical level (one HL segment followed by data segments). The number in each box (top left corner) is the hierarchical sequence number, (the number in HL01). The number in the top right is the parent ID (HL02).

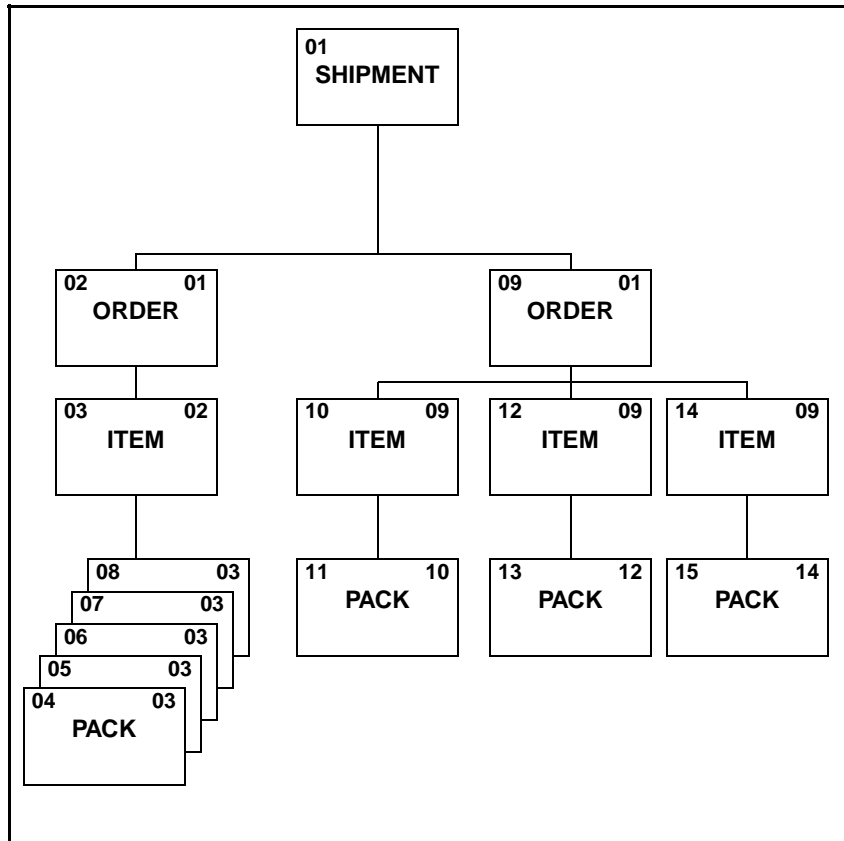


Standard Carton Pack Structure Example

In this example the shipment contains two orders.

The first order has five cartons. All cartons contain the same SKU.

The second order contains three cartons with a unique SKU in each carton. Each box represents one hierarchical level (one HL segment followed by data segments). The number in each box (top left corner) is the hierarchical sequence number, (the number in HL01). The number in the top right is the parent ID (HL02).



Unit Load

In some implementations, the shipping arrangements agreed to between trading partners may require the supplier to “master” pack or palletize individual store orders. Within the context of VICS EDI, a Unit Load (UL), is defined as one or more transport packages held together by some means such as a pallet, slip sheet, container or carton, which contains multiple orders all shipped to the same point of first receipt. Transport packages within the unit load are destined for multiple final destinations. The “master” pack, or “unit load,” will be broken down at the distribution facility and the transport packages contained within will be redistributed to multiple final destinations. Typically the unit load will consist of transport packages which are marked for and cross-docked to individual retail stores.

The utilization of the Unit Load level in the Ship Notice/Manifest Transaction Set (856) is for the express purpose of identifying a unit load. Each unit load will be marked with the UCC/EAN-128 Serial Shipping Container Code. Typically the transport packages contained within the unit load will also be marked with a UCC/EAN-128 Serial Container Code. The marking on the unit load will be used to receive the contents of the unit load and to post the receipt to the retailer's internal files; the marking at a lower packaging level is used to move the goods from the distribution facility to their appropriate final destinations.

The Unit Load level may be used in either the Pick and Pack or Standard Carton Pack structures. When present in the transaction, the Unit Load is immediately subordinate to the Shipment level. If a single shipment involves both a Unit Load and additional transport packages which are not part of the Unit Load, care must be taken to examine the hierarchical parent ID to ensure correct interpretation of the relationships within the shipment.

The Unit Load is designed to aid in shipment integrity and transportation efficiencies. The presence of the Unit Load level will identify to the receiver that additional handling may be needed. The Unit Load identifies a physical shipping unit, not a specific packaging type.

Shipments via Small Package Service Carrier

Unlike other motor carriers, small package service carriers do not use the bill of lading for a shipment. In fact, the term shipment takes on a different meaning when using small package service carriers. The common, traditional, meaning of a shipment, in the context of the retail industry, is a supplier sending one or more shipping containers or transport packages to a single retailer's destination. This shipment may be one or more supplier orders and one or more retailer's purchase orders, or partial purchase orders. The shipment is under one bill of lading. The shipment may be represented by one or more than one 856 transaction.

To a small package service carrier, each transport package is one shipment. Each package is assigned a unique identification number by the carrier to facilitate the movement through their system. A manifest may be used by the shipper to list each package, destination, and other details; a bill of lading is not created. These manifests may be created at the end of the day or for each ship from/destination, or for each supplier order processed and shipped. The 856 transaction set should be used in the same manner as the supplier would use when sending under motor or common carrier. The use of a small package service carrier would not change this.

When a small package service provider is used, it may be useful to provide the carrier's assigned number as well as the UCC/EAN-128 Carton ID. It is not required to send both, however, it should be seriously considered to aid in tracking. This is especially true in a consumer catalog service or any direct ship to consumer (customer of retailer) using a small package service. It is desirable for the retailer to know each carrier assigned carton ID to track the shipment if the customer reports the ordered and billed merchandise was never received.

The MAN (Marks and Numbers) segment is used to send both package ID numbers.

The TD5 segment at the shipment level will inform the receiver that a small package service provider is the carrier, by using the Standard Carrier Alpha Code (SCAC) and the Transportation Method/Type of Private Parcel Service.

ASC X12

856 Ship Notice/Manifest

FUNCTIONAL GROUP ID = **SH**

This X12 Transaction Set 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.

A functional profile that describes the use of this transaction set for Canada follows this implementation guideline.

Header

PAGE #	POS. #	SEG. ID	NAME	REQ. DES.	MAX USE	LOOP REPEAT
1125	0100	ST	Transaction Set Header	M	1	
1126	0200	BSN	Beginning Segment for Ship Notice	M	1	
N/U	0400	DTM	Date/Time Reference	O	10	

Detail

PAGE #	POS. #	SEG. ID	NAME	REQ. DES.	MAX USE	LOOP REPEAT
		LOOP ID - HL				200000
1200	0100	HL	Hierarchical Level	M	1	
1201	0200	LIN	Item Identification	O	1	
1204	0300	SN1	Item Detail (Shipment)	O	1	
1205	0400	SLN	Subline Item Detail	O	1000	
1210	0500	PRF	Purchase Order Reference	O	1	
1211	0600	PO4	Item Physical Details	O	1	
1214	0700	PID	Product/Item Description	O	200	
1216	0800	MEA	Measurements	O	40	
N/U	0900	PWK	Paperwork	O	25	
1219	1000	PKG	Marking, Packaging, Loading	O	25	
1221	1100	TD1	Carrier Details (Quantity and Weight)	O	20	
1223	1200	TD5	Carrier Details (Routing Sequence/Transit Time)	O	12	
		LOOP ID - HL/TD3				12
N/U	1300	TD3	Carrier Details (Equipment)	O	1	
N/U	1350	AT9	Trailer or Container Dimension and Weight	O	1	
1225	1400	TD4	Carrier Details (Special Handling, or Hazardous Materials, or Both)	O	5	
N/U	1450	TSD	Trailer Shipment Details	O	1	

**RETAIL INDUSTRY CONVENTIONS AND
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1226	1500	REF	Reference Information	O	>1
N/U	1510	PER	Administrative Communications Contact	O	3
LOOP ID - HL/LH1					100
N/U	1520	LH1	Hazardous Identification Information	O	1
N/U	1530	LH2	Hazardous Classification Information	O	4
N/U	1540	LH3	Hazardous Material Shipping Name	O	12
N/U	1550	LFH	Freeform Hazardous Material Information	O	20
N/U	1560	LEP	EPA Required Data	O	>1
N/U	1570	LH4	Canadian Dangerous Requirements	O	1
N/U	1580	LHT	Transborder Hazardous Requirements	O	3
N/U	1590	LHR	Hazardous Material Identifying Reference Numbers	O	10
N/U	1600	PER	Administrative Communications Contact	O	5
N/U	1610	LHE	Empty Equipment Hazardous Material Information	O	1
LOOP ID - HL/CLD					200
N/U	1700	CLD	Load Detail	O	1
N/U	1800	REF	Reference Information	O	200
N/U	1850	DTP	Date or Time or Period	O	1
N/U	1900	MAN	Marks and Numbers	O	>1
1227	2000	DTM	Date/Time Reference	O	10
N/U	2100	FOB	F.O.B. Related Instructions	O	1
N/U	2150	PAL	Pallet Information	O	1
LOOP ID - HL/N1					200
N/U	2200	N1	Party Identification	O	1
N/U	2300	N2	Additional Name Information	O	2
N/U	2400	N3	Party Location	O	2
N/U	2500	N4	Geographic Location	O	1
N/U	2600	REF	Reference Information	O	12
N/U	2700	PER	Administrative Communications Contact	O	3
N/U	2800	FOB	F.O.B. Related Instructions	O	1
N/U	2900	SDQ	Destination Quantity	O	50
N/U	3000	ETD	Excess Transportation Detail	O	1
N/U	3100	CUR	Currency	O	1
LOOP ID - HL/SAC					>1
1228	3200	SAC	Service, Promotion, Allowance, or Charge Information	O	1
N/U	3250	CUR	Currency	O	1
N/U	3300	GF	Furnished Goods and Services	O	1
N/U	3350	YNQ	Yes/No Question	O	10
LOOP ID - HL/LM					10
N/U	3400	LM	Code Source Information	O	1
N/U	3500	LQ	Industry Code Identification	M	100
LOOP ID - HL/V1					>1
N/U	3600	V1	Vessel Identification	O	1
N/U	3700	R4	Port or Terminal	O	>1
N/U	3800	DTM	Date/Time Reference	O	>1

Summary

PAGE #	POS. #	SEG. ID	NAME	REQ. DES.	MAX USE	LOOP REPEAT
1231	0100	CTT	Transaction Totals	O	1	
1232	0200	SE	Transaction Set Trailer	M	1	

VICS EDI

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Header

PAGE #	POS. #	SEG. ID	NAME	REQ. DES.	MAX USE	LOOP REPEAT
1125	0100	ST	Transaction Set Header	M	1	
1126	0200	BSN	Beginning Segment for Ship Notice	M	1	

Detail - Shipment

PAGE #	POS. #	SEG. ID	NAME	REQ. DES.	MAX USE	LOOP REPEAT
						LOOP ID - HL 200000
1127	0100	HL	Hierarchical Level	M	1	
1129	1100	TD1	Carrier Details (Quantity and Weight)	O	20	
1131	1200	TD5	Carrier Details (Routing Sequence/Transit Time)	O	12	
						LOOP ID - HL/TD3 12
1134	1300	TD3	Carrier Details (Equipment)	O	1	
1136	1350	AT9	Trailer or Container Dimension and Weight	O	1	
1137	1400	TD4	Carrier Details (Special Handling, or Hazardous Materials, or Both)	O	5	
1138	1500	REF	Reference Information	O	>1	
1139	1510	PER	Administrative Communications Contact	O	3	
1140	1900	MAN	Marks and Numbers	O	>1	
1142	2000	DTM	Date/Time Reference	O	10	
1143	2100	FOB	F.O.B. Related Instructions	O	1	
						LOOP ID - HL/N1 200
1145	2200	N1	Party Identification	O	1	
1147	2300	N2	Additional Name Information	O	2	
1148	2400	N3	Party Location	O	2	
1149	2500	N4	Geographic Location	O	1	

Detail - Unit Load

PAGE #	POS. #	SEG. ID	NAME	REQ. DES.	MAX USE	LOOP REPEAT
						LOOP ID - HL 200000
1150	0100	HL	Hierarchical Level	M	1	
						LOOP ID - HL/TD3 12
1151	1300	TD3	Carrier Details (Equipment)	O	1	
1153	1350	AT9	Trailer or Container Dimension and Weight	O	1	
1154	1900	MAN	Marks and Numbers	O	>1	

Detail - Order

PAGE #	POS. #	SEG. ID	NAME	REQ. DES.	MAX USE	LOOP REPEAT
		LOOP ID - HL				200000
1156	0100	HL	Hierarchical Level	M	1	
1157	0500	PRF	Purchase Order Reference	O	1	
1158	0700	PID	Product/Item Description	O	200	
1160	1100	TD1	Carrier Details (Quantity and Weight)	O	20	
1162	1200	TD5	Carrier Details (Routing Sequence/Transit Time)	O	12	
1164	1450	TSD	Trailer Shipment Details	O	1	
1165	1500	REF	Reference Information	O	>1	
1167	2000	DTM	Date/Time Reference	O	10	
		LOOP ID - HL/N1				200
1168	2200	N1	Party Identification	O	1	
1170	2300	N2	Additional Name Information	O	2	
1171	2400	N3	Party Location	O	2	
1172	2500	N4	Geographic Location	O	1	
1173	3100	CUR	Currency	O	1	

Detail - Tare

PAGE #	POS. #	SEG. ID	NAME	REQ. DES.	MAX USE	LOOP REPEAT
		LOOP ID - HL				200000
1176	0100	HL	Hierarchical Level	M	1	
1177	1450	TSD	Trailer Shipment Details	O	1	
1178	1900	MAN	Marks and Numbers	O	>1	
1180	2150	PAL	Pallet Information	O	1	

Detail - Pack

PAGE #	POS. #	SEG. ID	NAME	REQ. DES.	MAX USE	LOOP REPEAT
		LOOP ID - HL				200000
1182	0100	HL	Hierarchical Level	M	1	
1183	0200	LIN	Item Identification	O	1	
1186	0300	SN1	Item Detail (Shipment)	O	1	
1187	0400	SLN	Subline Item Detail	O	1000	
1191	0600	PO4	Item Physical Details	O	1	
1194	1000	PKG	Marking, Packaging, Loading	O	25	
1196	1450	TSD	Trailer Shipment Details	O	1	
1197	1900	MAN	Marks and Numbers	O	>1	
1199	2000	DTM	Date/Time Reference	O	10	

Detail - Item

PAGE #	POS. #	SEG. ID	NAME	REQ. DES.	MAX USE	LOOP REPEAT
		LOOP ID - HL				200000
1200	0100	HL	Hierarchical Level	M	1	
1201	0200	LIN	Item Identification	O	1	
1204	0300	SN1	Item Detail (Shipment)	O	1	
1205	0400	SLN	Subline Item Detail	O	1000	
1210	0500	PRF	Purchase Order Reference	O	1	
1211	0600	PO4	Item Physical Details	O	1	
1214	0700	PID	Product/Item Description	O	200	
1216	0800	MEA	Measurements	O	40	
1219	1000	PKG	Marking, Packaging, Loading	O	25	
1221	1100	TD1	Carrier Details (Quantity and Weight)	O	20	
1223	1200	TD5	Carrier Details (Routing Sequence/Transit Time)	O	12	
1225	1400	TD4	Carrier Details (Special Handling, or Hazardous Materials, or Both)	O	5	
1226	1500	REF	Reference Information	O	>1	
1227	2000	DTM	Date/Time Reference	O	10	
		LOOP ID - HL/SAC				>1
1228	3200	SAC	Service, Promotion, Allowance, or Charge Information	O	1	

Summary

PAGE #	POS. #	SEG. ID	NAME	REQ. DES.	MAX USE	LOOP REPEAT
1231	0100	CTT	Transaction Totals	O	1	
1232	0200	SE	Transaction Set Trailer	M	1	

Segment: ST Transaction Set Header

Level: Header

Loop: ____

Usage: Mandatory

Max Use: 1

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

- Semantic:**
- 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).
 - 2 The implementation convention reference (ST03) is used by the translation routines of the interchange partners to select the appropriate implementation convention to match the transaction set definition. When used, this implementation convention reference takes precedence over the implementation reference specified in the GS08.

Data Element Summary

REF. DES.	DATA ELEMENT	NAME	ATTRIBUTES
ST01	143	Transaction Set Identifier Code Code uniquely identifying a Transaction Set 856 Ship Notice/Manifest	M ID 3/3
ST02	329	Transaction Set Control Number Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set The number is sequentially assigned by the sender, starting with one within each functional group. For each functional group, the first transaction set control number will be 0001 and incremented by one for each additional transaction set within the group.	M AN 4/9
ST03	1705	Implementation Convention Reference Reference assigned to identify Implementation Convention NOT USED BY THE RETAIL INDUSTRY	O AN 1/35

Segment: BSN Beginning Segment for Ship Notice

Level: Header

Loop: ____

Usage: Mandatory

Max Use: 1

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

Syntax: 1 C0706
If BSN07 is present, then BSN06 is required.

Semantic: 1 BSN03 is the date the shipment transaction set is created.
2 BSN04 is the time the shipment transaction set is created.
3 BSN06 is limited to shipment related codes.

Comments: A 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.

Data Element Summary

REF. DES.	DATA ELEMENT	NAME	ATTRIBUTES
➤	BSN01	353 Transaction Set Purpose Code Code identifying purpose of transaction set 00 Original 07 Duplicate	M ID 2/2
➤	BSN02	396 Shipment Identification A unique control number assigned by the original shipper to identify a specific shipment	M AN 2/30
➤	BSN03	373 Date Date expressed as CCYYMMDD where CC represents the first two digits of the calendar year	M DT 8/8
➤	BSN04	337 Time 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)	M TM 4/8
➤	BSN05	1005 Hierarchical Structure Code Code indicating the hierarchical application structure of a transaction set that utilizes the HL segment to define the structure of the transaction set 0001 Shipment, Order, Packaging, Item Pick and Pack Structure 0002 Shipment, Order, Item, Packaging Standard Carton Pack Structure 0004 Shipment, Order, Item	O ID 4/4
	BSN06	640 Transaction Type Code Code specifying the type of transaction NOT USED BY THE RETAIL INDUSTRY	C ID 2/2
	BSN07	641 Status Reason Code Code indicating the status reason NOT USED BY THE RETAIL INDUSTRY	O ID 3/3

Segment: HL Hierarchical Level

Level: Detail - Shipment

Loop: HL **Usage:** Mandatory **Max Use:** 200000

Usage: Mandatory

Max Use: 1

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

- Comments:**
- A** 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.
 - B** The HL segment defines a top-down/left-right ordered structure.
 - C** 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.
 - D** HL02 identifies the hierarchical ID number of the HL segment to which the current HL segment is subordinate.
 - E** 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.
 - F** 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.

Data Element Summary

REF. DES.	DATA ELEMENT	NAME	ATTRIBUTES
➤	HL01	628 Hierarchical ID Number A unique number assigned by the sender to identify a particular data segment in a hierarchical structure The value for this level (shipment) is 1.	M AN 1/12
	HL02	734 Hierarchical Parent ID Number Identification number of the next higher hierarchical data segment that the data segment being described is subordinate to NOT USED BY THE RETAIL INDUSTRY	O AN 1/12
➤	HL03	735 Hierarchical Level Code Code defining the characteristic of a level in a hierarchical structure S Shipment	M ID 1/2

HL04 736 Hierarchical Child Code **O ID 1/1**
Code indicating if there are hierarchical child data segments subordinate to the level
being described

NOT USED BY THE RETAIL INDUSTRY

Segment: TD1 Carrier Details (Quantity and Weight)

Level: Detail - Shipment

Loop: HL

Usage: Optional

Max Use: 20

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

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

Notes: This segment, at the shipment level, is used to specify total containers and gross weight of the shipment as specified on the bill of lading (see VICS EDI 856 Ship Notice/Manifest Guidelines for further detail).

Data Element Summary

REF. DES.	DATA ELEMENT	NAME	ATTRIBUTES
TD101	103	Packaging Code Code identifying the type of packaging; Part 1: Packaging Form, Part 2: Packaging Material; if the Data Element is used, then Part 1 is always required	O AN 3/5
		Part 1	
		AAA Pallet, Returnable	
		BAG Bag	
		CTN Carton	
		MIX Mixed Container Types	
		Can be used only with code 71 in Part 2	
		PLT Pallet	
		SLP Slip Sheet	
		SRW Shrink Wrap	
		Part 2	
		01 Aluminum	
		03 Hard Wood	
		05 Soft Wood	
		25 Corrugated or Solid	
		31 Fibre	
		58 Metal	
		71 Not Otherwise Specified	
		76 Paper	
		79 Plastic	
		91 Stainless Steel	
		94 Wood	
TD102	80	Lading Quantity Number of units (pieces) of the lading commodity	C NO 1/7
		The number of packages in the shipment as described in TD101	
TD103	23	Commodity Code Qualifier Code identifying the commodity coding system used for Commodity Code	O ID 1/1
		NOT USED BY THE RETAIL INDUSTRY	

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TD104	22	Commodity Code Code describing a commodity or group of commodities	C AN	1/30
NOT USED BY THE RETAIL INDUSTRY				
TD105	79	Lading Description Description of an item as required for rating and billing purposes	O AN	1/50
NOT USED BY THE RETAIL INDUSTRY				
TD106	187	Weight Qualifier Code defining the type of weight G Gross Weight	O ID	1/2
TD107	81	Weight Numeric value of weight	C R	1/10
TD108	355	Unit or Basis for Measurement Code Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken	C ID	2/2
See Section III for code list.				
TD109	183	Volume Value of volumetric measure	C R	1/8
Gross volume				
TD110	355	Unit or Basis for Measurement Code Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken	C ID	2/2
See Section III for code list.				

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

Level: Detail - Shipment

Loop: HL

Usage: Optional

Max Use: 12

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

Syntax: 1 **R0204050612**

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

2 **C0203**

If TD502 is present, then TD503 is required.

3 **C0708**

If TD507 is present, then TD508 is required.

4 **C1011**

If TD510 is present, then TD511 is required.

5 **C1312**

If TD513 is present, then TD512 is required.

6 **C1413**

If TD514 is present, then TD513 is required.

7 **C1512**

If TD515 is present, then TD512 is required.

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

Comments: A 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 pre-established 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.

Data Element Summary

REF. DES.	DATA ELEMENT	NAME	ATTRIBUTES
TD501	133	Routing Sequence Code Code describing the relationship of a carrier to a specific shipment movement	O ID 1/2
		1 1st Carrier after Origin Carrier	
		2 2nd Carrier after Origin Carrier	
		3 3rd Carrier after Origin Carrier	
		4 4th Carrier after Origin Carrier	
		5 5th Carrier after Origin Carrier	
		6 6th Carrier after Origin Carrier	
		7 7th Carrier after Origin Carrier	

		8 8th Carrier after Origin Carrier			
		9 9th Carrier after Origin Carrier			
		A Origin Carrier, Agent's Routing (Rail)			
		B Origin/Delivery Carrier (Any Mode)			
		O Origin Carrier (Air, Motor, or Ocean)			
		S Origin Carrier, Shipper's Routing (Rail)			
TD502	66	Identification Code Qualifier	C	ID	1/2
		Code designating the system/method of code structure used for Identification Code (67)			
		2 Standard Carrier Alpha Code (SCAC)			
		See External Code Source 17 in Section III for reference document.			
		91 Assigned by Seller or Seller's Agent			
		92 Assigned by Buyer or Buyer's Agent			
TD503	67	Identification Code	C	AN	2/80
		Code identifying a party or other code			
TD504	91	Transportation Method/Type Code	C	ID	1/2
		Code specifying the method or type of transportation for the shipment			
		A Air			
		AE Air Express			
		BU Bus			
		C Consolidation			
		CE Customer Pickup / Customer's Expense			
		D Parcel Post			
		E Expedited Truck			
		H Customer Pickup			
		L Contract Carrier			
		M Motor (Common Carrier)			
		R Rail			
		S Ocean			
		T Best Way (Shippers Option)			
		U Private Parcel Service			
TD505	387	Routing	C	AN	1/35
		Free-form description of the routing or requested routing for shipment, or the originating carrier's identity			
TD506	368	Shipment/Order Status Code	C	ID	2/2
		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			
		CC Shipment Complete on (Date)			
		CM Shipment Complete with Additional Quantity			
		CS Shipment Complete with Substitution			
		PR Partial Shipment			
		SS Split Shipment			
TD507	309	Location Qualifier	O	ID	1/2
		Code identifying type of location			
		PA Port of Arrival			
		PB Port of Discharge			
		PE Port of Entry			

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TD508	310	Location Identifier Code which identifies a specific location See External Code Source 54 in Section III for reference document. When TD508 contains code PA or PE, refer to U.S. Census Schedule D, U.S. Customs District/Port Codes and official code lists relevant to other countries (entry country).	C	AN	1/30
TD509	731	Transit Direction Code The point of origin and point of direction NOT USED BY THE RETAIL INDUSTRY	O	ID	2/2
TD510	732	Transit Time Direction Qualifier Code specifying the value of time used to measure the transit time CD Calendar Days (Includes weekends and Holidays) HO Hours	O	ID	2/2
TD511	733	Transit Time The numeric amount of transit time Transit time is based on the ship date and time in the DTM segment.	C	R	1/4
TD512	284	Service Level Code Code indicating the level of transportation service or the billing service offered by the transportation carrier DS Door Service ND Next Day Air PB Priority Mail PI Priority Mail Insured SC Second Day Air	C	ID	2/2
TD513	284	Service Level Code Code indicating the level of transportation service or the billing service offered by the transportation carrier NOT USED BY THE RETAIL INDUSTRY	C	ID	2/2
TD514	284	Service Level Code Code indicating the level of transportation service or the billing service offered by the transportation carrier NOT USED BY THE RETAIL INDUSTRY	O	ID	2/2
TD515	26	Country Code Code identifying the country NOT USED BY THE RETAIL INDUSTRY	O	ID	2/3

Segment: TD3 Carrier Details (Equipment)

Level: Detail - Shipment

Loop: HL/TD3 **Usage:** Optional **Max Use:** 12

Usage: Mandatory

Max Use: 1

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

Syntax: 1 **E0110**
Only one of TD301 or TD310 may be present.

2 **C0203**
If TD302 is present, then TD303 is required.

3 **C0405**
If TD304 is present, then TD305 is required.

4 **P0506**
If either TD305 or TD306 is present, then the other is required.

Notes: This segment is used to specify the trailer number for a truckload shipment. This segment may be used also to specify the type of import container.

Data Element Summary

REF. DES.	DATA ELEMENT	NAME	ATTRIBUTES		
TD301	40	Equipment Description Code Code identifying type of equipment used for shipment 2B 20 ft. IL Container (Closed Top) 4B 40 ft. IL Container (Closed Top) AT Closed Container (Controlled Temperature) CI Container, Insulated CK Container, Heated/Insulated/Ventilated CN Container CV Closed Van CZ Refrigerated Container FT Flat Bed Trailer RC Refrigerated (Reefer) Car RT Controlled Temperature Trailer (Reefer) TA Trailer, Heated/Insulated/Ventilated TL Trailer (not otherwise specified)	C	ID	2/2
TD302	206	Equipment Initial Prefix or alphabetic part of an equipment unit's identifying number See External Code Source 17 in Section III for reference document.	O	AN	1/4
TD303	207	Equipment Number Sequencing or serial part of an equipment unit's identifying number (pure numeric form for equipment number is preferred)	C	AN	1/15
TD304	187	Weight Qualifier Code defining the type of weight NOT USED BY THE RETAIL INDUSTRY	O	ID	1/2
TD305	81	Weight Numeric value of weight NOT USED BY THE RETAIL INDUSTRY	C	R	1/10
TD306	355	Unit or Basis for Measurement Code Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken NOT USED BY THE RETAIL INDUSTRY	C	ID	2/2

TD307	102	Ownership Code Code indicating the relationship of equipment to carrier or ownership of equipment	O	ID	1/1
NOT USED BY THE RETAIL INDUSTRY					
TD308	407	Seal Status Code Code indicating condition of door seal upon arrival	O	ID	2/2
NOT USED BY THE RETAIL INDUSTRY					
TD309	225	Seal Number Unique number on seal used to close a shipment	O	AN	2/15
NOT USED BY THE RETAIL INDUSTRY					
TD310	24	Equipment Type Code identifying equipment type	C	ID	4/4
See External Code Source 14 in Section III for reference document.					
Use ISO 6346:1995 code list.					

Segment: AT9 Trailer or Container Dimension and Weight

Level: Detail - Shipment

Loop: HL/TD3

Usage: Optional

Max Use: 1

Purpose: To specify trailer or container dimensions

Syntax: 1 **P040506**

If either AT904, AT905 or AT906 are present, then the others are required.

2 **P0708**

If either AT907 or AT908 is present, then the other is required.

Semantic: 1 AT902 is the height of the trailer or container in inches.

2 AT903 is the width of the trailer or container in inches.

3 AT906 is the weight of the trailer or container. It is the tare weight of the trailer or container.

4 AT908 is the volumetric capacity of the trailer or container.

Data Element Summary

REF. DES.	DATA ELEMENT	NAME	ATTRIBUTES		
▶ AT901	567	Equipment Length Length (in feet and inches) of equipment ordered or used to transport shipment (The format is FFFII where FFF is feet and II is inches; the range for II is 00 through 11)	O	N0	4/5
AT902	65	Height Vertical dimension of an object measured when the object is in the upright position	O	R	1/8
AT903	189	Width Shorter measurement of the two horizontal dimensions measured with the object in the upright position	O	R	1/8
NOT USED BY THE RETAIL INDUSTRY					
AT904	187	Weight Qualifier Code defining the type of weight	C	ID	1/2
NOT USED BY THE RETAIL INDUSTRY					
AT905	188	Weight Unit Code Code specifying the weight unit	C	ID	1/1
NOT USED BY THE RETAIL INDUSTRY					
AT906	81	Weight Numeric value of weight	C	R	1/10
NOT USED BY THE RETAIL INDUSTRY					
AT907	184	Volume Unit Qualifier Code identifying the volume unit	C	ID	1/1
NOT USED BY THE RETAIL INDUSTRY					
AT908	183	Volume Value of volumetric measure	C	R	1/8
NOT USED BY THE RETAIL INDUSTRY					

Segment: TD4 Carrier Details (Special Handling, or Hazardous Materials, or Both)

Level: Detail - Shipment

Loop: HL

Usage: Optional

Max Use: 5

Purpose: To specify transportation special handling requirements, or hazardous materials information, or both

Syntax: 1 R010204

At least one of TD401, TD402 or TD404 is required.

2 C0203

If TD402 is present, then TD403 is required.

Semantic: 1 TD405 identifies if a Material Safety Data Sheet (MSDS) exists for this product. A "Y" indicates an MSDS exists for this product; an "N" indicates an MSDS does not exist for this product.

Data Element Summary

REF. DES.	DATA ELEMENT	NAME	ATTRIBUTES		
TD401	152	Special Handling Code Code specifying special transportation handling instructions	C	ID	2/3
		CC Container, Consolidator Load Full container			
		CF Container, Factory Load Full container, not to be opened for consolidation			
		LN Less Than Container, Consolidator Load			
		LR Less Than Container, Factory Load			
		TC Trailer, Consolidator Load Full trailer			
		TF Trailer, Factory Load Full trailer, not to be opened for consolidation			
TD402	208	Hazardous Material Code Qualifier Code which qualifies the Hazardous Material Class Code (209)	C	ID	1/1
		NOT USED BY THE RETAIL INDUSTRY			
TD403	209	Hazardous Material Class Code Code specifying the kind of hazard for a material	C	AN	1/4
		NOT USED BY THE RETAIL INDUSTRY			
TD404	352	Description A free-form description to clarify the related data elements and their content	C	AN	1/80
		NOT USED BY THE RETAIL INDUSTRY			
TD405	1073	Yes/No Condition or Response Code Code indicating a Yes or No condition or response	O	ID	1/1
		NOT USED BY THE RETAIL INDUSTRY			

Segment: REF Reference Information

Level: Detail - Shipment

Loop: HL

Usage: Optional

Max Use: >1

Purpose: To specify identifying information

Syntax: 1 R0203

At least one of REF02 or REF03 is required.

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

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.

Data Element Summary

REF. DES.	DATA ELEMENT	NAME	ATTRIBUTES
➤ REF01	128	Reference Identification Qualifier Code qualifying the Reference Identification	M ID 2/3
		AF Airlines Flight Identification Number	
		AO Appointment Number Receiver's appointment number	
		BM Bill of Lading Number	
		CN Carrier's Reference Number (PRO/Invoice)	
		MB Master Bill of Lading	
		MR Merchandise Type Code	
		UCB UCC Bill of Lading Number (17 Digits) See External Code Source 852 in Section III for reference document.	
		UCM UCC Master Bill of Lading Number (17 Digits) See External Code Source 852 in Section III for reference document.	
➤ REF02	127	Reference Identification Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	C AN 1/50
REF03	352	Description A free-form description to clarify the related data elements and their content NOT USED BY THE RETAIL INDUSTRY	C AN 1/80
REF04	C040	REFERENCE IDENTIFIER To identify one or more reference numbers or identification numbers as specified by the Reference Qualifier NOT USED BY THE RETAIL INDUSTRY	O COMPOSITE

Segment: PER Administrative Communications Contact

Level: Detail - Shipment

Loop: HL

Usage: Optional

Max Use: 3

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

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

Data Element Summary

REF. DES.	DATA ELEMENT	NAME	ATTRIBUTES
PER01	366	Contact Function Code Code identifying the major duty or responsibility of the person or group named DI Delivery Instructions Contact HM Hazardous Material Contact	M ID 2/2
PER02	93	Name Free-form name	O AN 1/60
PER03	365	Communication Number Qualifier Code identifying the type of communication number EM Electronic Mail FX Facsimile TE Telephone	C ID 2/2
PER04	364	Communication Number Complete communications number including country or area code when applicable	C AN 1/256
PER05	365	Communication Number Qualifier Code identifying the type of communication number EM Electronic Mail FX Facsimile TE Telephone	C ID 2/2
PER06	364	Communication Number Complete communications number including country or area code when applicable	C AN 1/256
PER07	365	Communication Number Qualifier Code identifying the type of communication number EM Electronic Mail FX Facsimile TE Telephone	C ID 2/2
PER08	364	Communication Number Complete communications number including country or area code when applicable	C AN 1/256
PER09	443	Contact Inquiry Reference Additional reference number or description to clarify a contact number	O AN 1/20
NOT USED BY THE RETAIL INDUSTRY			

Segment: MAN Marks and Numbers

Level: Detail - Shipment

Loop: HL

Usage: Optional

Max Use: >1

Purpose: To indicate identifying marks and numbers for shipping containers

Syntax: 1 **P0405**

If either MAN04 or MAN05 is present, then the other is required.

2 **C0605**

If MAN06 is present, then MAN05 is required.

Semantic: 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: A 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.

B MAN03 and/or MAN06 are only used when sending a range(s) of ID numbers.

C 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 shipment level, is used to specify a single UCC/EAN-128 Serial Shipping Container Code (SSCC-18) to identify an entire shipment (full trailer).

Data Element Summary

REF. DES.	DATA ELEMENT	NAME	ATTRIBUTES
➤	MAN01	88 Marks and Numbers Qualifier Code specifying the application or source of Marks and Numbers (87) AA SSCC-18 This is an eighteen-character UCC/EAN-128 Serial Shipping Container Code (SSCC-18) that does not include the two digit application identifier, the symbology code, or the modulo 103 check character. See External Code Source 664 in Section III for reference document. 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 symbology code and the modulo 103 check digit are not included. See External Code Source 98 in Section III for reference document.	M ID 1/2
➤	MAN02	87 Marks and Numbers Marks and numbers used to identify a shipment or parts of a shipment	M AN 1/48
	MAN03	87 Marks and Numbers Marks and numbers used to identify a shipment or parts of a shipment NOT USED BY THE RETAIL INDUSTRY	O AN 1/48
	MAN04	88 Marks and Numbers Qualifier Code specifying the application or source of Marks and Numbers (87) NOT USED BY THE RETAIL INDUSTRY	C ID 1/2
	MAN05	87 Marks and Numbers Marks and numbers used to identify a shipment or parts of a shipment NOT USED BY THE RETAIL INDUSTRY	C AN 1/48

MAN06 87 **Marks and Numbers** O AN 1/48
Marks and numbers used to identify a shipment or parts of a shipment
NOT USED BY THE RETAIL INDUSTRY

Segment: DTM Date/Time Reference

Level: Detail - Shipment

Loop: HL

Usage: Optional

Max Use: 10

Purpose: To specify pertinent dates and times

Syntax: 1 **R020305**

At least one of DTM02, DTM03 or DTM05 is required.

2 **C0403**

If DTM04 is present, then DTM03 is required.

3 **P0506**

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

Data Element Summary

REF. DES.	DATA ELEMENT	NAME	ATTRIBUTES
▶ DTM01	374	Date/Time Qualifier Code specifying type of date or time, or both date and time 011 Shipped 017 Estimated Delivery 067 Current Schedule Delivery 068 Current Schedule Ship AA1 Estimated Point of Arrival AA2 Estimated Point of Discharge	M ID 3/3
▶ DTM02	373	Date Date expressed as CCYYMMDD where CC represents the first two digits of the calendar year	C DT 8/8
DTM03	337	Time Time expressed in 24-hour clock time as follows: HHMM, or HHMMSS, or HHMMSSD, or HHMMSSDD, where H = hours (00-23), M = minutes (00-59), S = integer seconds (00-59) and DD = decimal seconds; decimal seconds are expressed as follows: D = tenths (0-9) and DD = hundredths (00-99)	C TM 4/8
DTM04	623	Time Code Code identifying the time. In accordance with International Standards Organization standard 8601, time can be specified by a + or - and an indication in hours in relation to Universal Time Coordinate (UTC) time; since + is a restricted character, + and - are substituted by P and M in the codes that follow NOT USED BY THE RETAIL INDUSTRY	O ID 2/2
DTM05	1250	Date Time Period Format Qualifier Code indicating the date format, time format, or date and time format NOT USED BY THE RETAIL INDUSTRY	C ID 2/3
DTM06	1251	Date Time Period Expression of a date, a time, or range of dates, times or dates and times NOT USED BY THE RETAIL INDUSTRY	C AN 1/35

Segment: FOB F.O.B. Related Instructions

Level: Detail - Shipment

Loop: HL

Usage: Optional

Max Use: 1

Purpose: To specify transportation instructions relating to shipment

Syntax: 1 **C0302**
If FOB03 is present, then FOB02 is required.

2 **C0405**
If FOB04 is present, then FOB05 is required.

3 **C0706**
If FOB07 is present, then FOB06 is required.

4 **C0809**
If FOB08 is present, then FOB09 is required.

- Semantic:**
- 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.

Data Element Summary

REF. DES.	DATA ELEMENT	NAME	ATTRIBUTES
➤ FOB01	146	Shipment Method of Payment Code identifying payment terms for transportation charges CC Collect CF Collect, Freight Credited Back to Customer DF Defined by Buyer and Seller MX Mixed PC Prepaid but Charged to Customer PO Prepaid Only PP Prepaid (by Seller) TP Third Party Pay	M ID 2/2
FOB02	309	Location Qualifier Code identifying type of location AC City and State CA Country of Origin CC Country CI City CO County/Parish and State CS Canadian SPLC See External Code Source 21 in Section III for reference document. CY County/Parish DE Destination (Shipping) FA Factory FE Freight Equalization Point FF Foreign Freight Forwarder Location OA Origin (After Loading on Equipment) OR Origin (Shipping Point)	C ID 1/2

OV On Vessel (Free On Board [FOB] point)

SP State/Province

TL Terminal Cargo Location

FOB03	352	Description A free-form description to clarify the related data elements and their content	O AN	1/80
Free-form name of transportation responsibility location				
FOB04	334	Transportation Terms Qualifier Code Code identifying the source of the transportation terms 01 Incoterms	O ID	2/2
FOB05	335	Transportation Terms Code Code identifying the trade terms which apply to the shipment transportation responsibility	C ID	3/3
FOB06	309	Location Qualifier Code identifying type of location See FOB02 for code list.	C ID	1/2
FOB07	352	Description A free-form description to clarify the related data elements and their content	O AN	1/80
Free-form name of title passage location				
FOB08	54	Risk of Loss Code Code specifying where responsibility for risk of loss passes NOT USED BY THE RETAIL INDUSTRY	O ID	2/2
FOB09	352	Description A free-form description to clarify the related data elements and their content NOT USED BY THE RETAIL INDUSTRY	C AN	1/80

Segment: N1 Party Identification

Level: Detail - Shipment

Loop: HL/N1 **Usage:** Optional **Max Use:** 200

Usage: Mandatory

Max Use: 1

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

Syntax: 1 **R0203**
At least one of N102 or N103 is required.

2 **P0304**
If either N103 or N104 is present, then the other is required.

Comments: A 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.

B 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, or for direct-to-consumer when N101 contains code ST.

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. To identify the sender of the transaction set, N101 will contain code FR. To identify the receiver of the transaction set, N101 will contain code TO.

Data Element Summary

REF. DES.	DATA ELEMENT	NAME	ATTRIBUTES
N101	98	Entity Identifier Code Code identifying an organizational entity, a physical location, property or an individual	M ID 2/3
		BS Bill and Ship To	
		CS Consolidator	
		FR Message From	
		LP Loading Party	
		MA Party for whom Item is Ultimately Intended	
		OB Ordered By	
		SF Ship From	
		ST Ship To	
		TO Message To	
		UP Unloading Party	
		YW Discharge Point	
N102	93	Name Free-form name	C AN 1/60

N103	66	<p>Identification Code Qualifier C ID 1/2 Code designating the system/method of code structure used for Identification Code (67)</p> <p>1 D-U-N-S Number, Dun & Bradstreet See External Code Source 16 in Section III for reference document.</p> <p>9 D-U-N-S+4, D-U-N-S Number with Four Character Suffix See External Code Source 16 in Section III for reference document.</p> <p>21 Health Industry Number (HIN) See External Code Source 121 in Section III for reference document.</p> <p>91 Assigned by Seller or Seller's Agent</p> <p>92 Assigned by Buyer or Buyer's Agent</p> <p>93 Code assigned by the organization originating the transaction set</p> <p>94 Code assigned by the organization that is the ultimate destination of the transaction set</p> <p>UL Global Location Number (GLN) This is the 13-digit Global Location Number (GLN). See External Code Source 583 in Section III for reference document.</p>
N104	67	<p>Identification Code C AN 2/80 Code identifying a party or other code</p> <p>This is the location code as defined by N103. The location code may be a formal number, e.g., DUNS, or it may be assigned by either the buyer or seller. The location refers to a store, warehouse, distribution center, plant, etc. Location codes are used to alleviate the need to send complete names and addresses.</p>
N105	706	<p>Entity Relationship Code O ID 2/2 Code describing entity relationship</p> <p>NOT USED BY THE RETAIL INDUSTRY</p>
N106	98	<p>Entity Identifier Code O ID 2/3 Code identifying an organizational entity, a physical location, property or an individual</p> <p>NOT USED BY THE RETAIL INDUSTRY</p>

Segment: N2 Additional Name Information

Level: Detail - Shipment

Loop: HL/N1

Usage: Optional

Max Use: 2

Purpose: To specify additional names

Data Element Summary

REF. DES.	DATA ELEMENT	NAME	ATTRIBUTES		
➤	N201	Name Free-form name	M	AN	1/60
	N202	Name Free-form name	O	AN	1/60

Segment: **N3** Party Location
Level: Detail - Shipment
Loop: HL/N1
Usage: Optional
Max Use: 2
Purpose: To specify the location of the named party

Data Element Summary

REF. DES.	DATA ELEMENT	NAME	ATTRIBUTES		
N301	166	Address Information Address information	M	AN	1/55
N302	166	Address Information Address information	O	AN	1/55

Segment: N4 Geographic Location

Level: Detail - Shipment

Loop: HL/N1

Usage: Optional

Max Use: 1

Purpose: To specify the geographic place of the named party

Syntax: 1 **E0207**
Only one of N402 or N407 may be present.

2 **C0605**
If N406 is present, then N405 is required.

3 **C0704**
If N407 is present, then N404 is required.

Comments: A A combination of either N401 through N404, or N405 and N406 may be adequate to specify a location.

B 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.

Data Element Summary

REF. DES.	DATA ELEMENT	NAME	ATTRIBUTES		
N401	19	City Name Free-form text for city name	O	AN	2/30
N402	156	State or Province Code Code (Standard State/Province) as defined by appropriate government agency See External Code Source 22 in Section III for reference document.	C	ID	2/2
N403	116	Postal Code Code defining international postal zone code excluding punctuation and blanks (zip code for United States) See External Code Source 51 in Section III for reference document.	O	ID	3/15
N404	26	Country Code Code identifying the country See External Code Source 5 in Section III for reference document.	C	ID	2/3
N405	309	Location Qualifier Code identifying type of location D Census Schedule D See External Code Source 54 in Section III for reference document. IA International Air Transport Association (IATA) Location Qualifier K Census Schedule K See External Code Source 55 in Section III for reference document. W Worldwide Geographic Location Code	C	ID	1/2
N406	310	Location Identifier Code which identifies a specific location	O	AN	1/30
N407	1715	Country Subdivision Code Code identifying the country subdivision NOT USED BY THE RETAIL INDUSTRY	C	ID	1/3

Segment: HL Hierarchical Level

Level: Detail - Unit Load

Loop: HL **Usage:** Mandatory **Max Use:** 200000

Usage: Mandatory

Max Use: 1

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

- Comments:**
- A** 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.
 - B** The HL segment defines a top-down/left-right ordered structure.
 - C** 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.
 - D** HL02 identifies the hierarchical ID number of the HL segment to which the current HL segment is subordinate.
 - E** 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.
 - F** 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.

Data Element Summary

REF. DES.	DATA ELEMENT	NAME	ATTRIBUTES
➤	HL01	628 Hierarchical ID Number A unique number assigned by the sender to identify a particular data segment in a hierarchical structure	M AN 1/12
➤	HL02	734 Hierarchical Parent ID Number Identification number of the next higher hierarchical data segment that the data segment being described is subordinate to	O AN 1/12
➤	HL03	735 Hierarchical Level Code Code defining the characteristic of a level in a hierarchical structure UT Unit or Lot Unit load	M ID 1/2
	HL04	736 Hierarchical Child Code Code indicating if there are hierarchical child data segments subordinate to the level being described NOT USED BY THE RETAIL INDUSTRY	O ID 1/1

Segment: TD3 Carrier Details (Equipment)

Level: Detail - Unit Load

Loop: HL/TD3 **Usage:** Optional **Max Use:** 12

Usage: Mandatory

Max Use: 1

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

- Syntax:**
- 1 **E0110**
Only one of TD301 or TD310 may be present.
 - 2 **C0203**
If TD302 is present, then TD303 is required.
 - 3 **C0405**
If TD304 is present, then TD305 is required.
 - 4 **P0506**
If either TD305 or TD306 is present, then the other is required.

Data Element Summary

REF. DES.	DATA ELEMENT	NAME	ATTRIBUTES		
TD301	40	Equipment Description Code Code identifying type of equipment used for shipment 20 20 ft. IL Container (Open Top) 2B 20 ft. IL Container (Closed Top) 40 40 ft. IL Container (Open Top) 4B 40 ft. IL Container (Closed Top) CN Container CZ Refrigerated Container	C	ID	2/2
TD302	206	Equipment Initial Prefix or alphabetic part of an equipment unit's identifying number See External Code Source 17 in Section III for reference document.	O	AN	1/4
TD303	207	Equipment Number Sequencing or serial part of an equipment unit's identifying number (pure numeric form for equipment number is preferred)	C	AN	1/15
TD304	187	Weight Qualifier Code defining the type of weight NOT USED BY THE RETAIL INDUSTRY	O	ID	1/2
TD305	81	Weight Numeric value of weight NOT USED BY THE RETAIL INDUSTRY	C	R	1/10
TD306	355	Unit or Basis for Measurement Code Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken NOT USED BY THE RETAIL INDUSTRY	C	ID	2/2
TD307	102	Ownership Code Code indicating the relationship of equipment to carrier or ownership of equipment NOT USED BY THE RETAIL INDUSTRY	O	ID	1/1
TD308	407	Seal Status Code Code indicating condition of door seal upon arrival NOT USED BY THE RETAIL INDUSTRY	O	ID	2/2
TD309	225	Seal Number Unique number on seal used to close a shipment	O	AN	2/15

TD310 24 Equipment Type **C ID 4/4**
Code identifying equipment type

See External Code Source 14 in Section III for reference document.

Use ISO 6346:1995 code list.

Segment: AT9 Trailer or Container Dimension and Weight

Level: Detail - Unit Load

Loop: HL/TD3

Usage: Optional

Max Use: 1

Purpose: To specify trailer or container dimensions

Syntax: 1 **P040506**

If either AT904, AT905 or AT906 are present, then the others are required.

2 **P0708**

If either AT907 or AT908 is present, then the other is required.

Semantic: 1 AT902 is the height of the trailer or container in inches.

2 AT903 is the width of the trailer or container in inches.

3 AT906 is the weight of the trailer or container. It is the tare weight of the trailer or container.

4 AT908 is the volumetric capacity of the trailer or container.

Data Element Summary

REF. DES.	DATA ELEMENT	NAME	ATTRIBUTES		
▶ AT901	567	Equipment Length Length (in feet and inches) of equipment ordered or used to transport shipment (The format is FFFII where FFF is feet and II is inches; the range for II is 00 through 11)	O	NO	4/5
AT902	65	Height Vertical dimension of an object measured when the object is in the upright position	O	R	1/8
AT903	189	Width Shorter measurement of the two horizontal dimensions measured with the object in the upright position	O	R	1/8
NOT USED BY THE RETAIL INDUSTRY					
AT904	187	Weight Qualifier Code defining the type of weight	C	ID	1/2
NOT USED BY THE RETAIL INDUSTRY					
AT905	188	Weight Unit Code Code specifying the weight unit	C	ID	1/1
NOT USED BY THE RETAIL INDUSTRY					
AT906	81	Weight Numeric value of weight	C	R	1/10
NOT USED BY THE RETAIL INDUSTRY					
AT907	184	Volume Unit Qualifier Code identifying the volume unit	C	ID	1/1
NOT USED BY THE RETAIL INDUSTRY					
AT908	183	Volume Value of volumetric measure	C	R	1/8
NOT USED BY THE RETAIL INDUSTRY					

Segment: MAN Marks and Numbers

Level: Detail - Unit Load

Loop: HL

Usage: Optional

Max Use: >1

Purpose: To indicate identifying marks and numbers for shipping containers

Syntax: 1 **P0405**

If either MAN04 or MAN05 is present, then the other is required.

2 **C0605**

If MAN06 is present, then MAN05 is required.

Semantic: 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: A 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.

B MAN03 and/or MAN06 are only used when sending a range(s) of ID numbers.

C 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 unit load level, is used to specify the identification number for the unit load.

Data Element Summary

REF. DES.	DATA ELEMENT	NAME	ATTRIBUTES
➤ MAN01	88	Marks and Numbers Qualifier Code specifying the application or source of Marks and Numbers (87)	M ID 1/2
		AA SSCC-18 This is an eighteen-character UCC/EAN-128 Serial Shipping Container Code (SSCC-18) that does not include the two digit application identifier, the symbology code, or the modulo 103 check character. See External Code Source 664 in Section III for reference document.	
		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 symbology code and the modulo 103 check digit are not included. See External Code Source 98 in Section III for reference document.	
➤ MAN02	87	Marks and Numbers Marks and numbers used to identify a shipment or parts of a shipment	M AN 1/48
MAN03	87	Marks and Numbers Marks and numbers used to identify a shipment or parts of a shipment	O AN 1/48
		NOT USED BY THE RETAIL INDUSTRY	
MAN04	88	Marks and Numbers Qualifier Code specifying the application or source of Marks and Numbers (87)	C ID 1/2
		NOT USED BY THE RETAIL INDUSTRY	
MAN05	87	Marks and Numbers Marks and numbers used to identify a shipment or parts of a shipment	C AN 1/48
		NOT USED BY THE RETAIL INDUSTRY	

MAN06 87 Marks and Numbers **○ AN 1/48**
Marks and numbers used to identify a shipment or parts of a shipment
NOT USED BY THE RETAIL INDUSTRY

Segment: HL Hierarchical Level

Level: Detail - Order

Loop: HL **Usage:** Mandatory **Max Use:** 200000

Usage: Mandatory

Max Use: 1

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

- Comments:**
- A** 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.
 - B** The HL segment defines a top-down/left-right ordered structure.
 - C** 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.
 - D** HL02 identifies the hierarchical ID number of the HL segment to which the current HL segment is subordinate.
 - E** 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.
 - F** 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.

Data Element Summary

REF. DES.	DATA ELEMENT	NAME	ATTRIBUTES
➤	HL01 628	Hierarchical ID Number A unique number assigned by the sender to identify a particular data segment in a hierarchical structure	M AN 1/12
➤	HL02 734	Hierarchical Parent ID Number Identification number of the next higher hierarchical data segment that the data segment being described is subordinate to	O AN 1/12
➤	HL03 735	Hierarchical Level Code Code defining the characteristic of a level in a hierarchical structure O Order	M ID 1/2
	HL04 736	Hierarchical Child Code Code indicating if there are hierarchical child data segments subordinate to the level being described	O ID 1/1
NOT USED BY THE RETAIL INDUSTRY			

Segment: **PRF** Purchase Order Reference
Level: Detail - Order
Loop: HL
Usage: Optional
Max Use: 1
Purpose: To provide reference to a specific purchase order
Semantic: 1 PRF04 is the date assigned by the purchaser to purchase order.

Data Element Summary

REF. DES.	DATA ELEMENT	NAME	ATTRIBUTES
PRF01	324	Purchase Order Number Identifying number for Purchase Order assigned by the orderer/purchaser Retailer's original purchase order number	M AN 1/22
PRF02	328	Release Number Number identifying a release against a Purchase Order previously placed by the parties involved in the transaction Retailer's release against the purchase order, if used	O AN 1/30
PRF03	327	Change Order Sequence Number Number assigned by the orderer identifying a specific change or revision to a previously transmitted transaction set NOT USED BY THE RETAIL INDUSTRY	O AN 1/8
PRF04	373	Date Date expressed as CCYYMMDD where CC represents the first two digits of the calendar year Retailer's original purchase order date	O DT 8/8
PRF05	350	Assigned Identification Alphanumeric characters assigned for differentiation within a transaction set The number assigned to the original purchase order line item; the value of PO101 for the previously transmitted purchase order, if used	O AN 1/20
PRF06	367	Contract Number Contract number	O AN 1/30
PRF07	92	Purchase Order Type Code Code specifying the type of Purchase Order NOT USED BY THE RETAIL INDUSTRY	O ID 2/2

Segment: PID Product/Item Description

Level: Detail - Order

Loop: HL

Usage: Optional

Max Use: 200

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

- Syntax:**
- 1 **C0403**
If PID04 is present, then PID03 is required.
 - 2 **R0405**
At least one of PID04 or PID05 is required.
 - 3 **C0703**
If PID07 is present, then PID03 is required.
 - 4 **C0804**
If PID08 is present, then PID04 is required.
 - 5 **C0905**
If PID09 is present, then PID05 is required.

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

- Comments:**
- A If PID01 equals "F", then PID05 is used. If PID01 equals "S", then PID04 is used. If PID01 equals "X", then both PID04 and PID05 are used.
 - B Use PID06 when necessary to refer to the product surface or layer being described in the segment.
 - C PID07 specifies the individual code list of the agency specified in PID03.

Data Element Summary

REF. DES.	DATA ELEMENT	NAME	ATTRIBUTES
➤	PID01	349 Item Description Type Code indicating the format of a description S Structured (From Industry Code List) The description will be found in PID04.	M ID 1/1
	PID02	750 Product/Process Characteristic Code Code identifying the general class of a product or process characteristic NOT USED BY THE RETAIL INDUSTRY	O ID 2/3
➤	PID03	559 Agency Qualifier Code Code identifying the agency assigning the code values VI Voluntary Inter-Industry Commerce Standard (VICS) EDI See External Code Source 70 in Section III for reference document.	C ID 2/2
➤	PID04	751 Product Description Code A code from an industry code list which provides specific data about a product characteristic EV Compliant with State Environment Requirements FL Compliant with Fair Labor Standards Act VC Volatile Organic Compound (VOC) Compliant	C AN 1/12
	PID05	352 Description A free-form description to clarify the related data elements and their content NOT USED BY THE RETAIL INDUSTRY	C AN 1/80

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PID06	752	Surface/Layer/Position Code	O ID	2/2
		Code indicating the product surface, layer or position that is being described		
		NOT USED BY THE RETAIL INDUSTRY		
PID07	822	Source Subqualifier	O AN	1/15
		A reference that indicates the table or text maintained by the Source Qualifier		
		NOT USED BY THE RETAIL INDUSTRY		
PID08	1073	Yes/No Condition or Response Code	O ID	1/1
		Code indicating a Yes or No condition or response		
		NOT USED BY THE RETAIL INDUSTRY		
PID09	819	Language Code	O ID	2/3
		Code designating the language used in text, from a standard code list maintained by the International Standards Organization (ISO 639)		
		NOT USED BY THE RETAIL INDUSTRY		

Segment: TD1 Carrier Details (Quantity and Weight)

Level: Detail - Order

Loop: HL

Usage: Optional

Max Use: 20

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

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

Notes: This segment, at the order level, is used to specify the number and type of shipping containers in the order.

Data Element Summary

REF. DES.	DATA ELEMENT	NAME	ATTRIBUTES
TD101	103	Packaging Code Code identifying the type of packaging; Part 1: Packaging Form, Part 2: Packaging Material; if the Data Element is used, then Part 1 is always required	O AN 3/5
		Part 1	
		AAA Pallet, Returnable	
		BAG Bag	
		CTN Carton	
		PLT Pallet	
		Part 2	
		01 Aluminum	
		03 Hard Wood	
		05 Soft Wood	
		25 Corrugated or Solid	
		31 Fibre	
		76 Paper	
		79 Plastic	
		94 Wood	
TD102	80	Lading Quantity Number of units (pieces) of the lading commodity	C NO 1/7
TD103	23	Commodity Code Qualifier Code identifying the commodity coding system used for Commodity Code	O ID 1/1
		NOT USED BY THE RETAIL INDUSTRY	
TD104	22	Commodity Code Code describing a commodity or group of commodities	C AN 1/30
		NOT USED BY THE RETAIL INDUSTRY	
TD105	79	Lading Description Description of an item as required for rating and billing purposes	O AN 1/50
		NOT USED BY THE RETAIL INDUSTRY	
TD106	187	Weight Qualifier Code defining the type of weight	O ID 1/2
		G Gross Weight	

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TD107	81	Weight Numeric value of weight	C	R	1/10
TD108	355	Unit or Basis for Measurement Code 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.	C	ID	2/2
TD109	183	Volume Value of volumetric measure Gross volume	C	R	1/8
TD110	355	Unit or Basis for Measurement Code 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.	C	ID	2/2

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

Level: Detail - Order

Loop: HL

Usage: Optional

Max Use: 12

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

Syntax: 1 **R0204050612**

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

2 **C0203**

If TD502 is present, then TD503 is required.

3 **C0708**

If TD507 is present, then TD508 is required.

4 **C1011**

If TD510 is present, then TD511 is required.

5 **C1312**

If TD513 is present, then TD512 is required.

6 **C1413**

If TD514 is present, then TD513 is required.

7 **C1512**

If TD515 is present, then TD512 is required.

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

Comments: A 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, at the order level, is used to specify the status of the order.

Data Element Summary

REF. DES.	DATA ELEMENT	NAME	ATTRIBUTES
TD501	133	Routing Sequence Code Code describing the relationship of a carrier to a specific shipment movement	O ID 1/2
NOT USED BY THE RETAIL INDUSTRY			
TD502	66	Identification Code Qualifier Code designating the system/method of code structure used for Identification Code (67)	C ID 1/2
NOT USED BY THE RETAIL INDUSTRY			
TD503	67	Identification Code Code identifying a party or other code	C AN 2/80
NOT USED BY THE RETAIL INDUSTRY			
TD504	91	Transportation Method/Type Code Code specifying the method or type of transportation for the shipment	C ID 1/2
NOT USED BY THE RETAIL INDUSTRY			
TD505	387	Routing Free-form description of the routing or requested routing for shipment, or the originating carrier's identity	C AN 1/35
NOT USED BY THE RETAIL INDUSTRY			
TD506	368	Shipment/Order Status Code 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 BK Back Ordered from Previous Order BP Shipment Partial, Back Order to Ship on (Date) CC Shipment Complete on (Date)	C ID 2/2

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		CM Shipment Complete with Additional Quantity			
		CP Partial Shipment on (Date), Considered No Backorder			
		CS Shipment Complete with Substitution			
		IS Item Represents Substitution from Original Order			
		PR Partial Shipment			
		SS Split Shipment			
TD507	309	Location Qualifier Code identifying type of location	O	ID	1/2
		NOT USED BY THE RETAIL INDUSTRY			
TD508	310	Location Identifier Code which identifies a specific location	C	AN	1/30
		NOT USED BY THE RETAIL INDUSTRY			
TD509	731	Transit Direction Code The point of origin and point of direction	O	ID	2/2
		NOT USED BY THE RETAIL INDUSTRY			
TD510	732	Transit Time Direction Qualifier Code specifying the value of time used to measure the transit time	O	ID	2/2
		NOT USED BY THE RETAIL INDUSTRY			
TD511	733	Transit Time The numeric amount of transit time	C	R	1/4
		NOT USED BY THE RETAIL INDUSTRY			
TD512	284	Service Level Code Code indicating the level of transportation service or the billing service offered by the transportation carrier	C	ID	2/2
		NOT USED BY THE RETAIL INDUSTRY			
TD513	284	Service Level Code Code indicating the level of transportation service or the billing service offered by the transportation carrier	C	ID	2/2
		NOT USED BY THE RETAIL INDUSTRY			
TD514	284	Service Level Code Code indicating the level of transportation service or the billing service offered by the transportation carrier	O	ID	2/2
		NOT USED BY THE RETAIL INDUSTRY			
TD515	26	Country Code Code identifying the country	O	ID	2/3
		NOT USED BY THE RETAIL INDUSTRY			

Segment: TSD Trailer Shipment Details

Level: Detail - Order

Loop: HL

Usage: Optional

Max Use: 1

Purpose: To specify details of shipments on a trailer

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

Notes: This segment is used to indicate the location of all cartons within the trailer/container.

Data Element Summary

REF. DES.	DATA ELEMENT	NAME	ATTRIBUTES
TSD01	350	Assigned Identification Alphanumeric characters assigned for differentiation within a transaction set	O AN 1/20
		Indicates the loading sequence	
TSD02	219	Position Relative position of shipment in car, trailer, or container (mutually defined)	O AN 1/3
		<ul style="list-style-type: none"> 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: **REF** Reference Information
Level: Detail - Order
Loop: HL
Usage: Optional
Max Use: >1
Purpose: To specify identifying information
Syntax: 1 **R0203**
 At least one of REF02 or REF03 is required.
Semantic: 1 REF04 contains data relating to the value cited in REF02.

Data Element Summary

REF. DES.	DATA ELEMENT	NAME	ATTRIBUTES
REF01	128	Reference Identification Qualifier Code qualifying the Reference Identification	M ID 2/3
		6B U.S. Customs Service (USCS) Entry Number Customs entry number	
		BM Bill of Lading Number	
		BT Batch Number	
		CH Customer Catalog Number	
		CO Customer Order Number Customer of retailer	
		DP Department Number	
		HB Bill & Hold Invoice Number	
		IA Internal Vendor Number Identification number assigned to the vendor, by the retailer, for use within the retailer's system	
		IT Internal Customer Number Identification number assigned to the retailer, by the vendor, for use within the vendor's system	
		IV Seller's Invoice Number	
		MR Merchandise Type Code	
		PD Promotion/Deal Number	
		QC Product Specification Document Number Schematic reference number	
		SB Sales Region Number	
		UCB UCC Bill of Lading Number (17 Digits) See External Code Source 852 in Section III for reference document.	
		UCM UCC Master Bill of Lading Number (17 Digits) See External Code Source 852 in Section III for reference document.	
		VN Vendor Order Number	
REF02	127	Reference Identification Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	C AN 1/50
REF03	352	Description A free-form description to clarify the related data elements and their content NOT USED BY THE RETAIL INDUSTRY	C AN 1/80

REF04 C040 REFERENCE IDENTIFIER **COMPOSITE**

To identify one or more reference numbers or identification numbers as specified by the Reference Qualifier

NOT USED BY THE RETAIL INDUSTRY

Segment: DTM Date/Time Reference

Level: Detail - Order

Loop: HL

Usage: Optional

Max Use: 10

Purpose: To specify pertinent dates and times

Syntax: 1 **R020305**

At least one of DTM02, DTM03 or DTM05 is required.

2 **C0403**

If DTM04 is present, then DTM03 is required.

3 **P0506**

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

Data Element Summary

REF. DES.	DATA ELEMENT	NAME	ATTRIBUTES
➤ DTM01	374	Date/Time Qualifier Code specifying type of date or time, or both date and time 272 Exit Plant Date Ex factory 371 Estimated Arrival Date This code may be used only for multi-stop shipments on one bill of lading.	M ID 3/3
➤ DTM02	373	Date Date expressed as CCYYMMDD where CC represents the first two digits of the calendar year	C DT 8/8
DTM03	337	Time Time expressed in 24-hour clock time as follows: HHMM, or HHMMSS, or HHMMSSD, or HHMMSSDD, where H = hours (00-23), M = minutes (00-59), S = integer seconds (00-59) and DD = decimal seconds; decimal seconds are expressed as follows: D = tenths (0-9) and DD = hundredths (00-99)	C TM 4/8
DTM04	623	Time Code Code identifying the time. In accordance with International Standards Organization standard 8601, time can be specified by a + or - and an indication in hours in relation to Universal Time Coordinate (UTC) time; since + is a restricted character, + and - are substituted by P and M in the codes that follow NOT USED BY THE RETAIL INDUSTRY	O ID 2/2
DTM05	1250	Date Time Period Format Qualifier Code indicating the date format, time format, or date and time format NOT USED BY THE RETAIL INDUSTRY	C ID 2/3
DTM06	1251	Date Time Period Expression of a date, a time, or range of dates, times or dates and times NOT USED BY THE RETAIL INDUSTRY	C AN 1/35

Segment: N1 Party Identification

Level: Detail - Order

Loop: HL/N1 **Usage:** Optional **Max Use:** 200

Usage: Mandatory

Max Use: 1

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

Syntax: 1 R0203
At least one of N102 or N103 is required.

2 P0304
If either N103 or N104 is present, then the other is required.

Comments: A 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.

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

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

Data Element Summary

REF. DES.	DATA ELEMENT	NAME	ATTRIBUTES
N101	98	Entity Identifier Code Code identifying an organizational entity, a physical location, property or an individual	M ID 2/3
		AG Agent/Agency Buyer's agent	
		BO Broker or Sales Office For a domestic purchase order, this is the manufacturer's sales office. For an import purchase order this is the sales office that interacts with the manufacturer's/buyer's agent.	
		BT Bill-to-Party	
		CT Country of Origin	
		MA Party for whom Item is Ultimately Intended Ultimate receiver	
		OB Ordered By Customer of retailer	
		SE Selling Party	
		Z7 Mark-for Party This is the ultimate destination for the order when the location is not the ship to and the mark for party is specified on the shipping label.	
N102	93	Name Free-form name	C AN 1/60
N103	66	Identification Code Qualifier Code designating the system/method of code structure used for Identification Code (67)	C ID 1/2
		1 D-U-N-S Number, Dun & Bradstreet See External Code Source 16 in Section III for reference document.	
		9 D-U-N-S+4, D-U-N-S Number with Four Character Suffix See External Code Source 16 in Section III for reference document.	
		21 Health Industry Number (HIN) See External Code Source 121 in Section III for reference document.	
		38 Country Code See External Code Source 5 in Section III for reference document.	

91 Assigned by Seller or Seller's Agent

92 Assigned by Buyer or Buyer's Agent

UL Global Location Number (GLN)

This is the 13-digit Global Location Number (GLN).

See External Code Source 583 in Section III for reference document.

N104	67	<p>Identification Code Code identifying a party or other code</p> <p>This is the location code as defined by N103. The location code may be a formal number, e.g., DUNS, or it may be assigned by either the buyer or seller. The location refers to a store, warehouse, distribution center, plant, etc. Location codes are used to alleviate the need to send complete names and addresses.</p>	C AN 2/80
N105	706	<p>Entity Relationship Code Code describing entity relationship</p> <p>NOT USED BY THE RETAIL INDUSTRY</p>	O ID 2/2
N106	98	<p>Entity Identifier Code Code identifying an organizational entity, a physical location, property or an individual</p> <p>NOT USED BY THE RETAIL INDUSTRY</p>	O ID 2/3

Segment: N2 Additional Name Information

Level: Detail - Order

Loop: HL/N1

Usage: Optional

Max Use: 2

Purpose: To specify additional names

Data Element Summary

REF. DES.	DATA ELEMENT	NAME	ATTRIBUTES		
N201	93	Name Free-form name	M	AN	1/60
N202	93	Name Free-form name	O	AN	1/60

Segment: **N3** Party Location
Level: Detail - Order
Loop: HL/N1
Usage: Optional
Max Use: 2
Purpose: To specify the location of the named party

Data Element Summary

REF. DES.	DATA ELEMENT	NAME	ATTRIBUTES		
N301	166	Address Information Address information	M	AN	1/55
N302	166	Address Information Address information	O	AN	1/55

Segment: N4 Geographic Location

Level: Detail - Order

Loop: HL/N1

Usage: Optional

Max Use: 1

Purpose: To specify the geographic place of the named party

Syntax: 1 **E0207**
Only one of N402 or N407 may be present.

2 **C0605**
If N406 is present, then N405 is required.

3 **C0704**
If N407 is present, then N404 is required.

Comments: A A combination of either N401 through N404, or N405 and N406 may be adequate to specify a location.

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

Data Element Summary

REF. DES.	DATA ELEMENT	NAME	ATTRIBUTES		
N401	19	City Name Free-form text for city name	O	AN	2/30
N402	156	State or Province Code Code (Standard State/Province) as defined by appropriate government agency See External Code Source 22 in Section III for reference document.	C	ID	2/2
N403	116	Postal Code Code defining international postal zone code excluding punctuation and blanks (zip code for United States) See External Code Source 51 in Section III for reference document.	O	ID	3/15
N404	26	Country Code Code identifying the country See External Code Source 5 in Section III for reference document.	C	ID	2/3
N405	309	Location Qualifier Code identifying type of location NOT USED BY THE RETAIL INDUSTRY	C	ID	1/2
N406	310	Location Identifier Code which identifies a specific location NOT USED BY THE RETAIL INDUSTRY	O	AN	1/30
N407	1715	Country Subdivision Code Code identifying the country subdivision NOT USED BY THE RETAIL INDUSTRY	C	ID	1/3

Segment: **CUR** Currency

Level: Detail - Order

Loop: HL/N1

Usage: Optional

Max Use: 1

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

Syntax: 1 **C0807**

If CUR08 is present, then CUR07 is required.

2 **C0907**

If CUR09 is present, then CUR07 is required.

3 **L101112**

If CUR10 is present, then at least one of CUR11 or CUR12 is required.

4 **C1110**

If CUR11 is present, then CUR10 is required.

5 **C1210**

If CUR12 is present, then CUR10 is required.

6 **L131415**

If CUR13 is present, then at least one of CUR14 or CUR15 is required.

7 **C1413**

If CUR14 is present, then CUR13 is required.

8 **C1513**

If CUR15 is present, then CUR13 is required.

9 **L161718**

If CUR16 is present, then at least one of CUR17 or CUR18 is required.

10 **C1716**

If CUR17 is present, then CUR16 is required.

11 **C1816**

If CUR18 is present, then CUR16 is required.

12 **L192021**

If CUR19 is present, then at least one of CUR20 or CUR21 is required.

13 **C2019**

If CUR20 is present, then CUR19 is required.

14 **C2119**

If CUR21 is present, then CUR19 is required.

Notes: See Section V (CUR Usage) for usage examples.

Data Element Summary

REF. DES.	DATA ELEMENT	NAME	ATTRIBUTES
➤	CUR01	98 Entity Identifier Code Code identifying an organizational entity, a physical location, property or an individual BY Buying Party (Purchaser)	M ID 2/3
➤	CUR02	100 Currency Code Code (Standard ISO) for country in whose currency the charges are specified See External Code Source 5 in Section III for reference document.	M ID 3/3
	CUR03	280 Exchange Rate Value to be used as a multiplier conversion factor to convert monetary value from one currency to another	O R 4/10
	CUR04	98 Entity Identifier Code Code identifying an organizational entity, a physical location, property or an individual SE Selling Party	O ID 2/3

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CUR05	100	Currency Code Code (Standard ISO) for country in whose currency the charges are specified See External Code Source 5 in Section III for reference document.	O ID 3/3
CUR06	669	Currency Market/Exchange Code Code identifying the market upon which the currency exchange rate is based NOT USED BY THE RETAIL INDUSTRY	O ID 3/3
CUR07	374	Date/Time Qualifier Code specifying type of date or time, or both date and time NOT USED BY THE RETAIL INDUSTRY	C ID 3/3
CUR08	373	Date Date expressed as CCYYMMDD where CC represents the first two digits of the calendar year NOT USED BY THE RETAIL INDUSTRY	O DT 8/8
CUR09	337	Time 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) NOT USED BY THE RETAIL INDUSTRY	O TM 4/8
CUR10	374	Date/Time Qualifier Code specifying type of date or time, or both date and time NOT USED BY THE RETAIL INDUSTRY	C ID 3/3
CUR11	373	Date Date expressed as CCYYMMDD where CC represents the first two digits of the calendar year NOT USED BY THE RETAIL INDUSTRY	C DT 8/8
CUR12	337	Time 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) NOT USED BY THE RETAIL INDUSTRY	C TM 4/8
CUR13	374	Date/Time Qualifier Code specifying type of date or time, or both date and time NOT USED BY THE RETAIL INDUSTRY	C ID 3/3
CUR14	373	Date Date expressed as CCYYMMDD where CC represents the first two digits of the calendar year NOT USED BY THE RETAIL INDUSTRY	C DT 8/8
CUR15	337	Time 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) NOT USED BY THE RETAIL INDUSTRY	C TM 4/8
CUR16	374	Date/Time Qualifier Code specifying type of date or time, or both date and time NOT USED BY THE RETAIL INDUSTRY	C ID 3/3
CUR17	373	Date Date expressed as CCYYMMDD where CC represents the first two digits of the calendar year NOT USED BY THE RETAIL INDUSTRY	C DT 8/8

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CUR18	337	Time	C TM 4/8
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)			
NOT USED BY THE RETAIL INDUSTRY			
CUR19	374	Date/Time Qualifier	C ID 3/3
Code specifying type of date or time, or both date and time			
NOT USED BY THE RETAIL INDUSTRY			
CUR20	373	Date	C DT 8/8
Date expressed as CCYYMMDD where CC represents the first two digits of the calendar year			
NOT USED BY THE RETAIL INDUSTRY			
CUR21	337	Time	C TM 4/8
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)			
NOT USED BY THE RETAIL INDUSTRY			

Segment: HL Hierarchical Level

Level: Detail - Tare

Loop: HL **Usage:** Mandatory **Max Use:** 200000

Usage: Mandatory

Max Use: 1

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

- Comments:**
- A** 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.
 - B** The HL segment defines a top-down/left-right ordered structure.
 - C** 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.
 - D** HL02 identifies the hierarchical ID number of the HL segment to which the current HL segment is subordinate.
 - E** 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.
 - F** 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.

Data Element Summary

REF. DES.	DATA ELEMENT	NAME	ATTRIBUTES
➤	HL01	628 Hierarchical ID Number A unique number assigned by the sender to identify a particular data segment in a hierarchical structure	M AN 1/12
➤	HL02	734 Hierarchical Parent ID Number Identification number of the next higher hierarchical data segment that the data segment being described is subordinate to	O AN 1/12
➤	HL03	735 Hierarchical Level Code Code defining the characteristic of a level in a hierarchical structure T Shipping Tare	M ID 1/2
	HL04	736 Hierarchical Child Code Code indicating if there are hierarchical child data segments subordinate to the level being described	O ID 1/1
NOT USED BY THE RETAIL INDUSTRY			

Segment: TSD Trailer Shipment Details

Level: Detail - Tare

Loop: HL

Usage: Optional

Max Use: 1

Purpose: To specify details of shipments on a trailer

Semantic: 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.

Data Element Summary

REF. DES.	DATA ELEMENT	NAME	ATTRIBUTES
TSD01	350	Assigned Identification Alphanumeric characters assigned for differentiation within a transaction set	O AN 1/20
		Indicates the loading sequence	
TSD02	219	Position Relative position of shipment in car, trailer, or container (mutually defined)	O AN 1/3
		<ul style="list-style-type: none"> 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

Level: Detail - Tare

Loop: HL

Usage: Optional

Max Use: >1

Purpose: To indicate identifying marks and numbers for shipping containers

Syntax: 1 **P0405**

If either MAN04 or MAN05 is present, then the other is required.

2 **C0605**

If MAN06 is present, then MAN05 is required.

Semantic: 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: A 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.

B MAN03 and/or MAN06 are only used when sending a range(s) of ID numbers.

C 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.

Data Element Summary

REF. DES.	DATA ELEMENT	NAME	ATTRIBUTES
➤ MAN01	88	Marks and Numbers Qualifier Code specifying the application or source of Marks and Numbers (87)	M ID 1/2
		AA SSCC-18 This is an eighteen-character UCC/EAN-128 Serial Shipping Container Code (SSCC-18) that does not include the two digit application identifier, the symbology code, or the modulo 103 check character. See External Code Source 664 in Section III for reference document.	
		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 symbology code and the modulo 103 check digit are not included. See External Code Source 98 in Section III for reference document.	
		SM Shipper Assigned	
		UC U.P.C. Shipping Container Code This is the fourteen-digit U.P.C. Shipping Container Code. See External Code Source 71 in Section III for reference document.	
➤ MAN02	87	Marks and Numbers Marks and numbers used to identify a shipment or parts of a shipment	M AN 1/48
MAN03	87	Marks and Numbers Marks and numbers used to identify a shipment or parts of a shipment NOT USED BY THE RETAIL INDUSTRY	O AN 1/48

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MAN04	88	Marks and Numbers Qualifier Code specifying the application or source of Marks and Numbers (87)	C	ID	1/2
NOT USED BY THE RETAIL INDUSTRY					
MAN05	87	Marks and Numbers Marks and numbers used to identify a shipment or parts of a shipment	C	AN	1/48
NOT USED BY THE RETAIL INDUSTRY					
MAN06	87	Marks and Numbers Marks and numbers used to identify a shipment or parts of a shipment	O	AN	1/48
NOT USED BY THE RETAIL INDUSTRY					

Segment: PAL Pallet Information

Level: Detail - Tare

Loop: HL

Usage: Optional

Max Use: 1

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

Syntax: 1 **P0506**

If either PAL05 or PAL06 is present, then the other is required.

2 **C0710**

If PAL07 is present, then PAL10 is required.

3 **C0810**

If PAL08 is present, then PAL10 is required.

4 **C0910**

If PAL09 is present, then PAL10 is required.

5 **L10070809**

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

6 **P1112**

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

7 **P1314**

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

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

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

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

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

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

Data Element Summary

REF. DES.	DATA ELEMENT	NAME	ATTRIBUTES		
PAL01	883	Pallet Type Code Code indicating the type of pallet 0 Hard Wood 1 Aluminum 2 As Specified by the Department of Transportation (DOT) 3 Metal 4 Standard 5 Steel 6 Wood 7 Slip sheet Typically cardboard or plastic sheets used to hold products for storage or shipment 8 Soft Wood	O	ID	1/2
PAL02	884	Pallet Tiers The number of layers per pallet	O	NO	1/3
PAL03	885	Pallet Blocks The number of pieces (cartons) per layer on the pallet	O	NO	1/3
PAL04	356	Pack The number of inner containers, or number of eaches if there are no inner containers, per outer container	O	NO	1/6
PAL05	395	Unit Weight Numeric value of weight per unit	C	R	1/8

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PAL06	355	Unit or Basis for Measurement Code 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.	C	ID	2/2
PAL07	82	Length Largest horizontal dimension of an object measured when the object is in the upright position	C	R	1/8
PAL08	189	Width Shorter measurement of the two horizontal dimensions measured with the object in the upright position	C	R	1/8
PAL09	65	Height Vertical dimension of an object measured when the object is in the upright position	C	R	1/8
PAL10	355	Unit or Basis for Measurement Code 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.	C	ID	2/2
PAL11	384	Gross Weight per Pack Numeric value of gross weight per pack	C	R	1/9
PAL12	355	Unit or Basis for Measurement Code 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.	C	ID	2/2
PAL13	385	Gross Volume per Pack Numeric value of gross volume per pack	C	R	1/9
PAL14	355	Unit or Basis for Measurement Code 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.	C	ID	2/2
PAL15	399	Pallet Exchange Code Code specifying pallet exchange instructions 1 No Exchange/No Return 2 Exchange Pallets 3 Return Pallets 4 Pallets to be Purchased by Customer 5 Third-Party Pallet Exchange	O	ID	1/1
PAL16	810	Inner Pack The number of eaches per inner container NOT USED BY THE RETAIL INDUSTRY	O	NO	1/6
PAL17	1699	Pallet Structure Code Code identifying the pallet structure NOT USED BY THE RETAIL INDUSTRY	O	ID	1/1

Segment: HL Hierarchical Level

Level: Detail - Pack

Loop: HL **Usage:** Mandatory **Max Use:** 200000

Usage: Mandatory

Max Use: 1

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

- Comments:**
- A** 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.
 - B** The HL segment defines a top-down/left-right ordered structure.
 - C** 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.
 - D** HL02 identifies the hierarchical ID number of the HL segment to which the current HL segment is subordinate.
 - E** 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.
 - F** 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.

Data Element Summary

REF. DES.	DATA ELEMENT	NAME	ATTRIBUTES
➤	HL01 628	Hierarchical ID Number A unique number assigned by the sender to identify a particular data segment in a hierarchical structure	M AN 1/12
➤	HL02 734	Hierarchical Parent ID Number Identification number of the next higher hierarchical data segment that the data segment being described is subordinate to	O AN 1/12
➤	HL03 735	Hierarchical Level Code Code defining the characteristic of a level in a hierarchical structure P Pack	M ID 1/2
	HL04 736	Hierarchical Child Code Code indicating if there are hierarchical child data segments subordinate to the level being described	O ID 1/1
NOT USED BY THE RETAIL INDUSTRY			

Segment: **LIN** Item Identification

Level: Detail - Pack

Loop: HL

Usage: Optional

Max Use: 1

Purpose: To specify basic item identification data

- Syntax:**
- 1 P0405**
If either LIN04 or LIN05 is present, then the other is required.
 - 2 P0607**
If either LIN06 or LIN07 is present, then the other is required.
 - 3 P0809**
If either LIN08 or LIN09 is present, then the other is required.
 - 4 P1011**
If either LIN10 or LIN11 is present, then the other is required.
 - 5 P1213**
If either LIN12 or LIN13 is present, then the other is required.
 - 6 P1415**
If either LIN14 or LIN15 is present, then the other is required.
 - 7 P1617**
If either LIN16 or LIN17 is present, then the other is required.
 - 8 P1819**
If either LIN18 or LIN19 is present, then the other is required.
 - 9 P2021**
If either LIN20 or LIN21 is present, then the other is required.
 - 10 P2223**
If either LIN22 or LIN23 is present, then the other is required.
 - 11 P2425**
If either LIN24 or LIN25 is present, then the other is required.
 - 12 P2627**
If either LIN26 or LIN27 is present, then the other is required.
 - 13 P2829**
If either LIN28 or LIN29 is present, then the other is required.
 - 14 P3031**
If either LIN30 or LIN31 is present, then the other is required.

Semantic: 1 LIN01 is the line item identification

Comments: A 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: This segment, at the pack level, is used to specify the U.P.C. Case Code or the U.P.C./EAN Shipping Container Code (SCC-14), and production information. The SN1 segment that follows is used to specify the number of cases identified in the LIN segment. The LIN segment, at the item level, is used to indicate the individual consumer units for the case code.

Data Element Summary

REF. DES.	DATA ELEMENT	NAME	ATTRIBUTES
LIN01	350	Assigned Identification Alphanumeric characters assigned for differentiation within a transaction set NOT USED BY THE RETAIL INDUSTRY	O AN 1/20
LIN02	235	Product/Service ID Qualifier Code identifying the type/source of the descriptive number used in Product/Service ID (234) See Section III for code list.	M ID 2/2

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➤	LIN03	234	Product/Service ID Identifying number for a product or service	M AN	1/48
	LIN04	235	Product/Service ID Qualifier Code identifying the type/source of the descriptive number used in Product/Service ID (234)	C ID	2/2
	See Section III for code list.				
	LIN05	234	Product/Service ID Identifying number for a product or service	C AN	1/48
	LIN06	235	Product/Service ID Qualifier Code identifying the type/source of the descriptive number used in Product/Service ID (234)	C ID	2/2
	See Section III for code list.				
	LIN07	234	Product/Service ID Identifying number for a product or service	C AN	1/48
	LIN08	235	Product/Service ID Qualifier Code identifying the type/source of the descriptive number used in Product/Service ID (234)	C ID	2/2
	NOT USED BY THE RETAIL INDUSTRY				
	LIN09	234	Product/Service ID Identifying number for a product or service	C AN	1/48
	NOT USED BY THE RETAIL INDUSTRY				
	LIN10	235	Product/Service ID Qualifier Code identifying the type/source of the descriptive number used in Product/Service ID (234)	C ID	2/2
	NOT USED BY THE RETAIL INDUSTRY				
	LIN11	234	Product/Service ID Identifying number for a product or service	C AN	1/48
	NOT USED BY THE RETAIL INDUSTRY				
	LIN12	235	Product/Service ID Qualifier Code identifying the type/source of the descriptive number used in Product/Service ID (234)	C ID	2/2
	NOT USED BY THE RETAIL INDUSTRY				
	LIN13	234	Product/Service ID Identifying number for a product or service	C AN	1/48
	NOT USED BY THE RETAIL INDUSTRY				
	LIN14	235	Product/Service ID Qualifier Code identifying the type/source of the descriptive number used in Product/Service ID (234)	C ID	2/2
	NOT USED BY THE RETAIL INDUSTRY				
	LIN15	234	Product/Service ID Identifying number for a product or service	C AN	1/48
	NOT USED BY THE RETAIL INDUSTRY				
	LIN16	235	Product/Service ID Qualifier Code identifying the type/source of the descriptive number used in Product/Service ID (234)	C ID	2/2
	NOT USED BY THE RETAIL INDUSTRY				
	LIN17	234	Product/Service ID Identifying number for a product or service	C AN	1/48
	NOT USED BY THE RETAIL INDUSTRY				
	LIN18	235	Product/Service ID Qualifier Code identifying the type/source of the descriptive number used in Product/Service ID (234)	C ID	2/2
	NOT USED BY THE RETAIL INDUSTRY				

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LIN19	234	Product/Service ID Identifying number for a product or service	C	AN	1/48
NOT USED BY THE RETAIL INDUSTRY					
LIN20	235	Product/Service ID Qualifier Code identifying the type/source of the descriptive number used in Product/Service ID (234)	C	ID	2/2
NOT USED BY THE RETAIL INDUSTRY					
LIN21	234	Product/Service ID Identifying number for a product or service	C	AN	1/48
NOT USED BY THE RETAIL INDUSTRY					
LIN22	235	Product/Service ID Qualifier Code identifying the type/source of the descriptive number used in Product/Service ID (234)	C	ID	2/2
NOT USED BY THE RETAIL INDUSTRY					
LIN23	234	Product/Service ID Identifying number for a product or service	C	AN	1/48
NOT USED BY THE RETAIL INDUSTRY					
LIN24	235	Product/Service ID Qualifier Code identifying the type/source of the descriptive number used in Product/Service ID (234)	C	ID	2/2
NOT USED BY THE RETAIL INDUSTRY					
LIN25	234	Product/Service ID Identifying number for a product or service	C	AN	1/48
NOT USED BY THE RETAIL INDUSTRY					
LIN26	235	Product/Service ID Qualifier Code identifying the type/source of the descriptive number used in Product/Service ID (234)	C	ID	2/2
NOT USED BY THE RETAIL INDUSTRY					
LIN27	234	Product/Service ID Identifying number for a product or service	C	AN	1/48
NOT USED BY THE RETAIL INDUSTRY					
LIN28	235	Product/Service ID Qualifier Code identifying the type/source of the descriptive number used in Product/Service ID (234)	C	ID	2/2
NOT USED BY THE RETAIL INDUSTRY					
LIN29	234	Product/Service ID Identifying number for a product or service	C	AN	1/48
NOT USED BY THE RETAIL INDUSTRY					
LIN30	235	Product/Service ID Qualifier Code identifying the type/source of the descriptive number used in Product/Service ID (234)	C	ID	2/2
NOT USED BY THE RETAIL INDUSTRY					
LIN31	234	Product/Service ID Identifying number for a product or service	C	AN	1/48
NOT USED BY THE RETAIL INDUSTRY					

Segment: SN1 Item Detail (Shipment)

Level: Detail - Pack

Loop: HL

Usage: Optional

Max Use: 1

Purpose: To specify line-item detail relative to shipment

Syntax: 1 **P0506**

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

Semantic: 1 SN101 is the ship notice line-item identification.

2 SN105 is quantity ordered.

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

Notes: This segment, at the pack level, is used only to specify the number of cases identified by the U.P.C./EAN Case Code or the U.P.C./EAN Shipping Container Code (SCC-14) in the previous LIN segment. The LIN segment in the item level is used to indicate the individual consumer units for the case code.

Data Element Summary

REF. DES.	DATA ELEMENT	NAME	ATTRIBUTES
SN101	350	Assigned Identification Alphanumeric characters assigned for differentiation within a transaction set	O AN 1/20
NOT USED BY THE RETAIL INDUSTRY			
➤ SN102	382	Number of Units Shipped Numeric value of units shipped in manufacturer's shipping units for a line item or transaction set	M R 1/10
➤ SN103	355	Unit or Basis for Measurement Code Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken CA Case	M ID 2/2
SN104	646	Quantity Shipped to Date Number of units shipped to date	O R 1/15
NOT USED BY THE RETAIL INDUSTRY			
SN105	380	Quantity Numeric value of quantity	C R 1/15
NOT USED BY THE RETAIL INDUSTRY			
SN106	355	Unit or Basis for Measurement Code Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken	C ID 2/2
NOT USED BY THE RETAIL INDUSTRY			
SN107	728	Returnable Container Load Make-Up Code Code identifying the load make-up of the returnable containers in the shipment	O ID 1/2
NOT USED BY THE RETAIL INDUSTRY			
SN108	668	Line Item Status Code Code specifying the action taken by the seller on a line item requested by the buyer	O ID 2/2
NOT USED BY THE RETAIL INDUSTRY			

Segment: **SLN Subline Item Detail**

Level: Detail - Pack

Loop: HL

Usage: Optional

Max Use: 1000

Purpose: To specify product subline detail item data

Syntax: **1 P0405**

If either SLN04 or SLN05 is present, then the other is required.

2 C0706

If SLN07 is present, then SLN06 is required.

3 C0806

If SLN08 is present, then SLN06 is required.

4 P0910

If either SLN09 or SLN10 is present, then the other is required.

5 P1112

If either SLN11 or SLN12 is present, then the other is required.

6 P1314

If either SLN13 or SLN14 is present, then the other is required.

7 P1516

If either SLN15 or SLN16 is present, then the other is required.

8 P1718

If either SLN17 or SLN18 is present, then the other is required.

9 P1920

If either SLN19 or SLN20 is present, then the other is required.

10 P2122

If either SLN21 or SLN22 is present, then the other is required.

11 P2324

If either SLN23 or SLN24 is present, then the other is required.

12 P2526

If either SLN25 or SLN26 is present, then the other is required.

13 P2728

If either SLN27 or SLN28 is present, then the other is required.

Semantic: **1** SLN01 is the identifying number for the subline item.

2 SLN02 is the identifying number for the subline level. The subline level is analogous to the level code used in a bill of materials.

3 SLN03 is the configuration code indicating the relationship of the subline item to the baseline item.

4 SLN08 is a code indicating the relationship of the price or amount to the associated segment.

Comments: **A** SLN01 is related to (but not necessarily equivalent to) the baseline item number. Example: 1.1 or 1A might be used as a subline number to relate to baseline number 1.

B SLN09 through SLN28 provide for ten different product/service IDs for each item. For example: Case, Color, Drawing No., U.P.C. No., ISBN No., Model No., or SKU.

Notes: **This segment, when used in a standard carton pack structure at the pack level, may only be used to specify an individual component of the item identified in the LIN segment in the previous item level. The quantity specified in SN102, at the item level, represents the number of sets, and SN103 will contain code ST, to identify it as a set. Each subsequent MAN segment, within this pack level, identifies the carton ID for each component identified in the SLN segment. Additional pack level SLN segments and MAN segments are used to represent each different component of the SKU.**

Data Element Summary

REF. DES.	DATA ELEMENT	NAME	ATTRIBUTES
➤	SLN01	350 Assigned Identification Alphanumeric characters assigned for differentiation within a transaction set	M AN 1/20
	SLN02	350 Assigned Identification Alphanumeric characters assigned for differentiation within a transaction set	O AN 1/20
		NOT USED BY THE RETAIL INDUSTRY	
➤	SLN03	662 Relationship Code Code indicating the relationship between entities I Included	M ID 1/1
➤	SLN04	380 Quantity Numeric value of quantity	C R 1/15
➤	SLN05	C001 COMPOSITE UNIT OF MEASURE To identify a composite unit of measure	C COMPOSITE
➤	- 1	355 Unit or Basis for Measurement Code Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken	M ID 2/2
		See Section III for code list.	
	- 2	1018 Exponent Power to which a unit is raised	O R 1/15
		NOT USED BY THE RETAIL INDUSTRY	
	- 3	649 Multiplier Value to be used as a multiplier to obtain a new value	O R 1/10
		NOT USED BY THE RETAIL INDUSTRY	
	- 4	355 Unit or Basis for Measurement Code Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken	O ID 2/2
		NOT USED BY THE RETAIL INDUSTRY	
	- 5	1018 Exponent Power to which a unit is raised	O R 1/15
		NOT USED BY THE RETAIL INDUSTRY	
	- 6	649 Multiplier Value to be used as a multiplier to obtain a new value	O R 1/10
		NOT USED BY THE RETAIL INDUSTRY	
	- 7	355 Unit or Basis for Measurement Code Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken	O ID 2/2
		NOT USED BY THE RETAIL INDUSTRY	
	- 8	1018 Exponent Power to which a unit is raised	O R 1/15
		NOT USED BY THE RETAIL INDUSTRY	
	- 9	649 Multiplier Value to be used as a multiplier to obtain a new value	O R 1/10
		NOT USED BY THE RETAIL INDUSTRY	
	- 10	355 Unit or Basis for Measurement Code Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken	O ID 2/2
		NOT USED BY THE RETAIL INDUSTRY	
	- 11	1018 Exponent Power to which a unit is raised	O R 1/15
		NOT USED BY THE RETAIL INDUSTRY	

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- 12	649	Multiplier Value to be used as a multiplier to obtain a new value	O	R	1/10
NOT USED BY THE RETAIL INDUSTRY					
- 13	355	Unit or Basis for Measurement Code Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken	O	ID	2/2
NOT USED BY THE RETAIL INDUSTRY					
- 14	1018	Exponent Power to which a unit is raised	O	R	1/15
NOT USED BY THE RETAIL INDUSTRY					
- 15	649	Multiplier Value to be used as a multiplier to obtain a new value	O	R	1/10
NOT USED BY THE RETAIL INDUSTRY					
SLN06	212	Unit Price Price per unit of product, service, commodity, etc.	C	R	1/17
NOT USED BY THE RETAIL INDUSTRY					
SLN07	639	Basis of Unit Price Code Code identifying the type of unit price for an item	O	ID	2/2
NOT USED BY THE RETAIL INDUSTRY					
SLN08	662	Relationship Code Code indicating the relationship between entities	O	ID	1/1
NOT USED BY THE RETAIL INDUSTRY					
SLN09	235	Product/Service ID Qualifier Code identifying the type/source of the descriptive number used in Product/Service ID (234)	C	ID	2/2
See Section III for code list.					
SLN10	234	Product/Service ID Identifying number for a product or service	C	AN	1/48
SLN11	235	Product/Service ID Qualifier Code identifying the type/source of the descriptive number used in Product/Service ID (234)	C	ID	2/2
See Section III for code list.					
SLN12	234	Product/Service ID Identifying number for a product or service	C	AN	1/48
SLN13	235	Product/Service ID Qualifier Code identifying the type/source of the descriptive number used in Product/Service ID (234)	C	ID	2/2
See Section III for code list.					
SLN14	234	Product/Service ID Identifying number for a product or service	C	AN	1/48
SLN15	235	Product/Service ID Qualifier Code identifying the type/source of the descriptive number used in Product/Service ID (234)	C	ID	2/2
See Section III for code list.					
SLN16	234	Product/Service ID Identifying number for a product or service	C	AN	1/48
SLN17	235	Product/Service ID Qualifier Code identifying the type/source of the descriptive number used in Product/Service ID (234)	C	ID	2/2
See Section III for code list.					
SLN18	234	Product/Service ID Identifying number for a product or service	C	AN	1/48

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SLN19	235	Product/Service ID Qualifier Code identifying the type/source of the descriptive number used in Product/Service ID (234)	C ID 2/2
See Section III for code list.			
SLN20	234	Product/Service ID Identifying number for a product or service	C AN 1/48
SLN21	235	Product/Service ID Qualifier Code identifying the type/source of the descriptive number used in Product/Service ID (234)	C ID 2/2
See Section III for code list.			
SLN22	234	Product/Service ID Identifying number for a product or service	C AN 1/48
SLN23	235	Product/Service ID Qualifier Code identifying the type/source of the descriptive number used in Product/Service ID (234)	C ID 2/2
See Section III for code list.			
SLN24	234	Product/Service ID Identifying number for a product or service	C AN 1/48
SLN25	235	Product/Service ID Qualifier Code identifying the type/source of the descriptive number used in Product/Service ID (234)	C ID 2/2
See Section III for code list.			
SLN26	234	Product/Service ID Identifying number for a product or service	C AN 1/48
SLN27	235	Product/Service ID Qualifier Code identifying the type/source of the descriptive number used in Product/Service ID (234)	C ID 2/2
See Section III for code list.			
SLN28	234	Product/Service ID Identifying number for a product or service	C AN 1/48

Segment: PO4 Item Physical Details

Level: Detail - Pack

Loop: HL

Usage: Optional

Max Use: 1

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

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

- Semantic:**
- 1** PO415 is used to indicate the relative layer of this package or range of packages within the layers of packaging. Relative Position 1 (value R1) is the innermost package.
 - 2** PO416 is the package identifier or the beginning package identifier in a range of identifiers.
 - 3** PO417 is the ending package identifier in a range of identifiers.
 - 4** PO418 is the number of packages in this layer.

- Comments:**
- A** PO403 - The "Unit or Basis for Measure Code" in this segment position is for purposes of defining the unit of measure of the "Size" identified in the PO402. 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".
- B** PO413 defines the unit of measure for PO410, PO411, and PO412.

Notes: In a pick and pack structure, this segment, at the pack level, is used only to specify the carton weight and/or physical dimensions.

This segment may be used to describe a master pack of an item or a master pack of a component of an item in a standard carton pack structure.

A master pack of an item is where multiple units of an item, identified in the LIN segment at the item level, are physically packed within a shipping container, such as four crockpots to a shipping container. The item and total quantity are identified in the LIN segment at the item level. The PO4 segment, at the pack level, is used to identify the master pack makeup. PO401 (Pack) is the number of containers packed within the container identified at the pack level, the master pack. PO414 (Inner Pack) is the number of items packed within each container indicated in PO401. For example, if the manufacturer is shipping eight crockpots in one master pack, with each master pack containing four boxes, each box containing two crockpots, the item level would indicate the U.P.C. for the crockpots, with a quantity of eight each. The pack level would contain a PO4 segment with PO401 equal to 4 and PO414 equal to 2.

A master pack of a component of an item is similar to the master pack of an item with the exception that the component is identified in the SLN segment at the pack level and the item is identified at the item level. The SLN segment is used to identify how many of this component are in the item. The PO4 segment specifies how many of these components are in the shipping container identified at the pack level. For example, 8 lamps are being shipped. Each lamp has two components, the lamp base and lamp shade, and each lamp base is shipped one to a container and shades are shipped four to a container. The LIN segment at the item level would contain the U.P.C. for the lamp, with a quantity of 8 and a unit of measure of ST for set. There would be one pack level for each component.

For the shade component, the SLN segment would identify the shade and a quantity of 1, and PO401 would equal 4. PO414 is not needed since inner packs are not present. There would be two MAN segments to identify each of the two cartons which contain four lamp shades each.

For the base component, the SLN segment would identify the base and a quantity of 1. The PO4 segment is not used. There would be eight MAN segments to identify each carton containing one lamp base.

Data Element Summary

REF. DES.	DATA ELEMENT	NAME	ATTRIBUTES
PO401	356	Pack The number of inner containers, or number of eaches if there are no inner containers, per outer container	O NO 1/6
PO402	357	Size Size of supplier units in pack	C R 1/8
NOT USED BY THE RETAIL INDUSTRY			
PO403	355	Unit or Basis for Measurement Code Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken	C ID 2/2
NOT USED BY THE RETAIL INDUSTRY			
PO404	103	Packaging Code Code identifying the type of packaging; Part 1: Packaging Form, Part 2: Packaging Material; if the Data Element is used, then Part 1 is always required	C AN 3/5
NOT USED BY THE RETAIL INDUSTRY			

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PO405	187	Weight Qualifier Code defining the type of weight	O	ID	1/2
NOT USED BY THE RETAIL INDUSTRY					
PO406	384	Gross Weight per Pack Numeric value of gross weight per pack	C	R	1/9
PO407	355	Unit or Basis for Measurement Code Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken	C	ID	2/2
See Section III for code list.					
PO408	385	Gross Volume per Pack Numeric value of gross volume per pack	C	R	1/9
NOT USED BY THE RETAIL INDUSTRY					
PO409	355	Unit or Basis for Measurement Code Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken	C	ID	2/2
NOT USED BY THE RETAIL INDUSTRY					
PO410	82	Length Largest horizontal dimension of an object measured when the object is in the upright position	C	R	1/8
PO411	189	Width Shorter measurement of the two horizontal dimensions measured with the object in the upright position	C	R	1/8
PO412	65	Height Vertical dimension of an object measured when the object is in the upright position	C	R	1/8
PO413	355	Unit or Basis for Measurement Code Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken	C	ID	2/2
See Section III for code list.					
PO414	810	Inner Pack The number of eaches per inner container	O	NO	1/6
PO415	752	Surface/Layer/Position Code Code indicating the product surface, layer or position that is being described	O	ID	2/2
NOT USED BY THE RETAIL INDUSTRY					
PO416	350	Assigned Identification Alphanumeric characters assigned for differentiation within a transaction set	C	AN	1/20
NOT USED BY THE RETAIL INDUSTRY					
PO417	350	Assigned Identification Alphanumeric characters assigned for differentiation within a transaction set	O	AN	1/20
NOT USED BY THE RETAIL INDUSTRY					
PO418	1470	Number A generic number	O	NO	1/9
NOT USED BY THE RETAIL INDUSTRY					

Segment: **PKG** Marking, Packaging, Loading
Level: Detail - Pack
Loop: HL
Usage: Optional
Max Use: 25
Purpose: To describe marking, packaging, loading, and unloading requirements
Syntax: **1 R040506**
 At least one of PKG04, PKG05 or PKG06 is required.
2 C0403
 If PKG04 is present, then PKG03 is required.
3 C0501
 If PKG05 is present, then PKG01 is required.
Semantic: **1** PKG04 should be used for industry-specific packaging description codes.
Comments: **A** Use the MEA (Measurements) Segment to define dimensions, tolerances, weights, counts, physical restrictions, etc.
B If PKG01 equals "F", then PKG05 is used. If PKG01 equals "S", then PKG04 is used. If PKG01 equals "X", then both PKG04 and PKG05 are used.
C Use PKG03 to indicate the organization that publishes the code list being referred to.
D Special marking or tagging data can be given in PKG05 (description).
Notes: **The codes in PKG04 are published only in this guideline.**

Data Element Summary

REF. DES.	DATA ELEMENT	NAME	ATTRIBUTES
➤	PKG01	349 Item Description Type Code indicating the format of a description S Structured (From Industry Code List) The description will be found in PKG04.	C ID 1/1
	PKG02	753 Packaging Characteristic Code Code specifying the marking, packaging, loading and related characteristics being described 36 Package Specifications	O ID 1/5
➤	PKG03	559 Agency Qualifier Code Code identifying the agency assigning the code values VI Voluntary Inter-Industry Commerce Standard (VICS) EDI See External Code Source 70 in Section III for reference document.	C ID 2/2
➤	PKG04	754 Packaging Description Code A code from an industry code list which provides specific data about the marking, packaging or loading and unloading of a product Part 1: Container Type (Position 1) L Logical Container P Physical Container Part 2: Container Configuration (Positions 2-3) 01 Carton 02 Carton, Hanging Garments 03 Carton, With Hangers (not hanging) 04 Carton, With identifiable inner packs 05 Carton, With unidentifiable inner packs 06 Rack, Hanging Garments (GOH)	C AN 1/7
	PKG05	352 Description A free-form description to clarify the related data elements and their content NOT USED BY THE RETAIL INDUSTRY	C AN 1/80

PKG06 400 Unit Load Option Code **C ID 2/2**
Code identifying loading or unloading a shipment
NOT USED BY THE RETAIL INDUSTRY

Segment: TSD Trailer Shipment Details

Level: Detail - Pack

Loop: HL

Usage: Optional

Max Use: 1

Purpose: To specify details of shipments on a trailer

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

Notes: This segment is used to indicate the location of the carton within the trailer/container.

Data Element Summary

REF. DES.	DATA ELEMENT	NAME	ATTRIBUTES
TSD01	350	Assigned Identification Alphanumeric characters assigned for differentiation within a transaction set	O AN 1/20
		Indicates the loading sequence	
TSD02	219	Position Relative position of shipment in car, trailer, or container (mutually defined)	O AN 1/3
		<ul style="list-style-type: none"> 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

Level: Detail - Pack

Loop: HL

Usage: Optional

Max Use: >1

Purpose: To indicate identifying marks and numbers for shipping containers

Syntax: 1 **P0405**

If either MAN04 or MAN05 is present, then the other is required.

2 **C0605**

If MAN06 is present, then MAN05 is required.

Semantic: 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: A 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.

B MAN03 and/or MAN06 are only used when sending a range(s) of ID numbers.

C 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.

Data Element Summary

REF. DES.	DATA ELEMENT	NAME	ATTRIBUTES
MAN01	88	Marks and Numbers Qualifier Code specifying the application or source of Marks and Numbers (87)	M ID 1/2
		AA SSCC-18 This is an eighteen-character UCC/EAN-128 Serial Shipping Container Code (SSCC-18) that does not include the two digit application identifier, the symbology code, or the modulo 103 check character. See External Code Source 664 in Section III for reference document.	
		CP Carrier-Assigned Package ID Number	
		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 symbology code and the modulo 103 check digit are not included. See External Code Source 98 in Section III for reference document.	
		SM Shipper Assigned	
		UC U.P.C. Shipping Container Code This is the fourteen-digit U.P.C. Shipping Container Code. See External Code Source 71 in Section III for reference document.	

			UP	U.P.C. Consumer Package Code (1-5-5-1)			
					See External Code Source 41 in Section III for reference document.		
➤	MAN02	87	Marks and Numbers	Marks and numbers used to identify a shipment or parts of a shipment	M	AN	1/48
	MAN03	87	Marks and Numbers	Marks and numbers used to identify a shipment or parts of a shipment	O	AN	1/48
	MAN04	88	Marks and Numbers Qualifier	Code specifying the application or source of Marks and Numbers (87)	C	ID	1/2
			AA	SSCC-18			
					This is an eighteen-character UCC/EAN-128 Serial Shipping Container Code (SSCC-18) that does not include the two digit application identifier, the symbology code, or the modulo 103 check character.		
					See External Code Source 664 in Section III for reference document.		
			CP	Carrier-Assigned Package ID Number			
			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 symbology code and the modulo 103 check digit are not included.		
					See External Code Source 98 in Section III for reference document.		
			SM	Shipper Assigned			
			UC	U.P.C. Shipping Container Code			
					This is the fourteen-digit U.P.C. Shipping Container Code.		
					See External Code Source 71 in Section III for reference document.		
	MAN05	87	Marks and Numbers	Marks and numbers used to identify a shipment or parts of a shipment	C	AN	1/48
	MAN06	87	Marks and Numbers	Marks and numbers used to identify a shipment or parts of a shipment	O	AN	1/48

Segment: DTM Date/Time Reference

Level: Detail - Pack

Loop: HL

Usage: Optional

Max Use: 10

Purpose: To specify pertinent dates and times

Syntax: 1 **R020305**

At least one of DTM02, DTM03 or DTM05 is required.

2 **C0403**

If DTM04 is present, then DTM03 is required.

3 **P0506**

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

Notes: This segment, at the pack level, is used to communicate production and expiration information.

Data Element Summary

REF. DES.	DATA ELEMENT	NAME	ATTRIBUTES
➤	DTM01	374 Date/Time Qualifier Code specifying type of date or time, or both date and time 036 Expiration Date product is no longer consumable or usable 405 Production 511 Shelf Life Expiration Date product is no longer available for sale	M ID 3/3
➤	DTM02	373 Date Date expressed as CCYYMMDD where CC represents the first two digits of the calendar year	C DT 8/8
	DTM03	337 Time 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) NOT USED BY THE RETAIL INDUSTRY	C TM 4/8
	DTM04	623 Time Code Code identifying the time. In accordance with International Standards Organization standard 8601, time can be specified by a + or - and an indication in hours in relation to Universal Time Coordinate (UTC) time; since + is a restricted character, + and - are substituted by P and M in the codes that follow NOT USED BY THE RETAIL INDUSTRY	O ID 2/2
	DTM05	1250 Date Time Period Format Qualifier Code indicating the date format, time format, or date and time format NOT USED BY THE RETAIL INDUSTRY	C ID 2/3
	DTM06	1251 Date Time Period Expression of a date, a time, or range of dates, times or dates and times NOT USED BY THE RETAIL INDUSTRY	C AN 1/35

Segment: HL Hierarchical Level

Level: Detail - Item

Loop: HL **Usage:** Mandatory **Max Use:** 200000

Usage: Mandatory

Max Use: 1

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

- Comments:**
- A** 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.
 - B** The HL segment defines a top-down/left-right ordered structure.
 - C** 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.
 - D** HL02 identifies the hierarchical ID number of the HL segment to which the current HL segment is subordinate.
 - E** 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.
 - F** 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.

Data Element Summary

REF. DES.	DATA ELEMENT	NAME	ATTRIBUTES
➤	HL01 628	Hierarchical ID Number A unique number assigned by the sender to identify a particular data segment in a hierarchical structure	M AN 1/12
➤	HL02 734	Hierarchical Parent ID Number Identification number of the next higher hierarchical data segment that the data segment being described is subordinate to	O AN 1/12
➤	HL03 735	Hierarchical Level Code Code defining the characteristic of a level in a hierarchical structure I Item	M ID 1/2
	HL04 736	Hierarchical Child Code Code indicating if there are hierarchical child data segments subordinate to the level being described	O ID 1/1
NOT USED BY THE RETAIL INDUSTRY			

Segment: **LIN** Item Identification

Level: Detail - Item

Loop: HL

Usage: Optional

Max Use: 1

Purpose: To specify basic item identification data

- Syntax:**
- 1 P0405**
If either LIN04 or LIN05 is present, then the other is required.
 - 2 P0607**
If either LIN06 or LIN07 is present, then the other is required.
 - 3 P0809**
If either LIN08 or LIN09 is present, then the other is required.
 - 4 P1011**
If either LIN10 or LIN11 is present, then the other is required.
 - 5 P1213**
If either LIN12 or LIN13 is present, then the other is required.
 - 6 P1415**
If either LIN14 or LIN15 is present, then the other is required.
 - 7 P1617**
If either LIN16 or LIN17 is present, then the other is required.
 - 8 P1819**
If either LIN18 or LIN19 is present, then the other is required.
 - 9 P2021**
If either LIN20 or LIN21 is present, then the other is required.
 - 10 P2223**
If either LIN22 or LIN23 is present, then the other is required.
 - 11 P2425**
If either LIN24 or LIN25 is present, then the other is required.
 - 12 P2627**
If either LIN26 or LIN27 is present, then the other is required.
 - 13 P2829**
If either LIN28 or LIN29 is present, then the other is required.
 - 14 P3031**
If either LIN30 or LIN31 is present, then the other is required.

Semantic: 1 LIN01 is the line item identification

Comments: A 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.

Data Element Summary

REF. DES.	DATA ELEMENT	NAME	ATTRIBUTES
LIN01	350	Assigned Identification Alphanumeric characters assigned for differentiation within a transaction set	O AN 1/20
NOT USED BY THE RETAIL INDUSTRY			
➤	LIN02	Product/Service ID Qualifier Code identifying the type/source of the descriptive number used in Product/Service ID (234)	M ID 2/2
See Section III for code list.			
➤	LIN03	Product/Service ID Identifying number for a product or service	M AN 1/48

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LIN04	235	Product/Service ID Qualifier Code identifying the type/source of the descriptive number used in Product/Service ID (234)	C ID 2/2
See Section III for code list.			
LIN05	234	Product/Service ID Identifying number for a product or service	C AN 1/48
LIN06	235	Product/Service ID Qualifier Code identifying the type/source of the descriptive number used in Product/Service ID (234)	C ID 2/2
See Section III for code list.			
LIN07	234	Product/Service ID Identifying number for a product or service	C AN 1/48
LIN08	235	Product/Service ID Qualifier Code identifying the type/source of the descriptive number used in Product/Service ID (234)	C ID 2/2
See Section III for code list.			
LIN09	234	Product/Service ID Identifying number for a product or service	C AN 1/48
LIN10	235	Product/Service ID Qualifier Code identifying the type/source of the descriptive number used in Product/Service ID (234)	C ID 2/2
See Section III for code list.			
LIN11	234	Product/Service ID Identifying number for a product or service	C AN 1/48
LIN12	235	Product/Service ID Qualifier Code identifying the type/source of the descriptive number used in Product/Service ID (234)	C ID 2/2
See Section III for code list.			
LIN13	234	Product/Service ID Identifying number for a product or service	C AN 1/48
LIN14	235	Product/Service ID Qualifier Code identifying the type/source of the descriptive number used in Product/Service ID (234)	C ID 2/2
See Section III for code list.			
LIN15	234	Product/Service ID Identifying number for a product or service	C AN 1/48
LIN16	235	Product/Service ID Qualifier Code identifying the type/source of the descriptive number used in Product/Service ID (234)	C ID 2/2
See Section III for code list.			
LIN17	234	Product/Service ID Identifying number for a product or service	C AN 1/48
LIN18	235	Product/Service ID Qualifier Code identifying the type/source of the descriptive number used in Product/Service ID (234)	C ID 2/2
See Section III for code list.			
LIN19	234	Product/Service ID Identifying number for a product or service	C AN 1/48
LIN20	235	Product/Service ID Qualifier Code identifying the type/source of the descriptive number used in Product/Service ID (234)	C ID 2/2
See Section III for code list.			

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LIN21	234	Product/Service ID Identifying number for a product or service	C AN	1/48
LIN22	235	Product/Service ID Qualifier Code identifying the type/source of the descriptive number used in Product/Service ID (234)	C ID	2/2
See Section III for code list.				
LIN23	234	Product/Service ID Identifying number for a product or service	C AN	1/48
LIN24	235	Product/Service ID Qualifier Code identifying the type/source of the descriptive number used in Product/Service ID (234)	C ID	2/2
See Section III for code list.				
LIN25	234	Product/Service ID Identifying number for a product or service	C AN	1/48
LIN26	235	Product/Service ID Qualifier Code identifying the type/source of the descriptive number used in Product/Service ID (234)	C ID	2/2
See Section III for code list.				
LIN27	234	Product/Service ID Identifying number for a product or service	C AN	1/48
LIN28	235	Product/Service ID Qualifier Code identifying the type/source of the descriptive number used in Product/Service ID (234)	C ID	2/2
See Section III for code list.				
LIN29	234	Product/Service ID Identifying number for a product or service	C AN	1/48
LIN30	235	Product/Service ID Qualifier Code identifying the type/source of the descriptive number used in Product/Service ID (234)	C ID	2/2
See Section III for code list.				
LIN31	234	Product/Service ID Identifying number for a product or service	C AN	1/48

Segment: SN1 Item Detail (Shipment)

Level: Detail - Item

Loop: HL

Usage: Optional

Max Use: 1

Purpose: To specify line-item detail relative to shipment

Syntax: 1 **P0506**

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

Semantic: 1 SN101 is the ship notice line-item identification.

2 SN105 is quantity ordered.

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

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.

Data Element Summary

REF. DES.	DATA ELEMENT	NAME	ATTRIBUTES
SN101	350	Assigned Identification Alphanumeric characters assigned for differentiation within a transaction set	O AN 1/20
		NOT USED BY THE RETAIL INDUSTRY	
➤	SN102	Number of Units Shipped Numeric value of units shipped in manufacturer's shipping units for a line item or transaction set	M R 1/10
➤	SN103	Unit or Basis for Measurement Code Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken	M ID 2/2
		See Section III for code list.	
	SN104	Quantity Shipped to Date Number of units shipped to date	O R 1/15
	SN105	Quantity Numeric value of quantity	C R 1/15
		NOT USED BY THE RETAIL INDUSTRY	
	SN106	Unit or Basis for Measurement Code Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken	C ID 2/2
		See Section III for code list.	
	SN107	Returnable Container Load Make-Up Code Code identifying the load make-up of the returnable containers in the shipment	O ID 1/2
		NOT USED BY THE RETAIL INDUSTRY	
	SN108	Line Item Status Code Code specifying the action taken by the seller on a line item requested by the buyer	O ID 2/2
		NOT USED BY THE RETAIL INDUSTRY	

Segment: **SLN Subline Item Detail**

Level: Detail - Item

Loop: HL

Usage: Optional

Max Use: 1000

Purpose: To specify product subline detail item data

Syntax: **1 P0405**

If either SLN04 or SLN05 is present, then the other is required.

2 C0706

If SLN07 is present, then SLN06 is required.

3 C0806

If SLN08 is present, then SLN06 is required.

4 P0910

If either SLN09 or SLN10 is present, then the other is required.

5 P1112

If either SLN11 or SLN12 is present, then the other is required.

6 P1314

If either SLN13 or SLN14 is present, then the other is required.

7 P1516

If either SLN15 or SLN16 is present, then the other is required.

8 P1718

If either SLN17 or SLN18 is present, then the other is required.

9 P1920

If either SLN19 or SLN20 is present, then the other is required.

10 P2122

If either SLN21 or SLN22 is present, then the other is required.

11 P2324

If either SLN23 or SLN24 is present, then the other is required.

12 P2526

If either SLN25 or SLN26 is present, then the other is required.

13 P2728

If either SLN27 or SLN28 is present, then the other is required.

Semantic: **1** SLN01 is the identifying number for the subline item.

2 SLN02 is the identifying number for the subline level. The subline level is analogous to the level code used in a bill of materials.

3 SLN03 is the configuration code indicating the relationship of the subline item to the baseline item.

4 SLN08 is a code indicating the relationship of the price or amount to the associated segment.

Comments: **A** SLN01 is related to (but not necessarily equivalent to) the baseline item number. Example: 1.1 or 1A might be used as a subline number to relate to baseline number 1.

B SLN09 through SLN28 provide for ten different product/service IDs for each item. For example: Case, Color, Drawing No., U.P.C. No., ISBN No., Model No., or SKU.

Notes: **This segment can be used to specify the originally ordered SKU for substituted SKUs. This segment can also be used to specify SKU contents of an assortment. The assortment can be defined by the retailer or the vendor. The assortment identification is in the line item detail segment for the transaction. This segment may be used to specify partial deletions of SKUs ordered but not invoiced and/or shipped. This segment may also be used to specify export item detail, such as price information, when shipments are made across the border.**

At this time, the ASC X12 Ship Notice/Manifest does not have the same capability as the Purchase Order and Invoice for specification of the price placed on pre-ticketed items. For many retailers, this information is necessary to determine if the cartons need to be routed to areas for re-ticketing for promotional pricing. The SLN can function, in a limited way, to satisfy this need. SLN03 will contain code I, SLN04 will contain the same code value as SN102, SLN05 will be the same as SN103, SLN06 will be the price on the ticket and SLN07 will contain code RE.

If SLN03 contains code D or code I, then SLN04 and SLN05 are required.

Data Element Summary

REF. DES.	DATA ELEMENT	NAME	ATTRIBUTES
➤	SLN01	350 Assigned Identification Alphanumeric characters assigned for differentiation within a transaction set	M AN 1/20
	SLN02	350 Assigned Identification Alphanumeric characters assigned for differentiation within a transaction set	O AN 1/20
		NOT USED BY THE RETAIL INDUSTRY	
➤	SLN03	662 Relationship Code Code indicating the relationship between entities D Delete I Included S Substituted	M ID 1/1
	SLN04	380 Quantity Numeric value of quantity	C R 1/15
	SLN05	C001 COMPOSITE UNIT OF MEASURE To identify a composite unit of measure	C COMPOSITE
➤	- 1	355 Unit or Basis for Measurement Code 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.	M ID 2/2
	- 2	1018 Exponent Power to which a unit is raised NOT USED BY THE RETAIL INDUSTRY	O R 1/15
	- 3	649 Multiplier Value to be used as a multiplier to obtain a new value NOT USED BY THE RETAIL INDUSTRY	O R 1/10
	- 4	355 Unit or Basis for Measurement Code Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken NOT USED BY THE RETAIL INDUSTRY	O ID 2/2
	- 5	1018 Exponent Power to which a unit is raised NOT USED BY THE RETAIL INDUSTRY	O R 1/15
	- 6	649 Multiplier Value to be used as a multiplier to obtain a new value NOT USED BY THE RETAIL INDUSTRY	O R 1/10
	- 7	355 Unit or Basis for Measurement Code Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken NOT USED BY THE RETAIL INDUSTRY	O ID 2/2
	- 8	1018 Exponent Power to which a unit is raised NOT USED BY THE RETAIL INDUSTRY	O R 1/15

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- 9	649	Multiplier Value to be used as a multiplier to obtain a new value	O	R	1/10
NOT USED BY THE RETAIL INDUSTRY					
- 10	355	Unit or Basis for Measurement Code Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken	O	ID	2/2
NOT USED BY THE RETAIL INDUSTRY					
- 11	1018	Exponent Power to which a unit is raised	O	R	1/15
NOT USED BY THE RETAIL INDUSTRY					
- 12	649	Multiplier Value to be used as a multiplier to obtain a new value	O	R	1/10
NOT USED BY THE RETAIL INDUSTRY					
- 13	355	Unit or Basis for Measurement Code Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken	O	ID	2/2
NOT USED BY THE RETAIL INDUSTRY					
- 14	1018	Exponent Power to which a unit is raised	O	R	1/15
NOT USED BY THE RETAIL INDUSTRY					
- 15	649	Multiplier Value to be used as a multiplier to obtain a new value	O	R	1/10
NOT USED BY THE RETAIL INDUSTRY					
SLN06	212	Unit Price Price per unit of product, service, commodity, etc.	C	R	1/17
The price is sent with a decimal point only when needed, e.g., \$15.95 would be sent as "15.95", and \$29.00 would be sent as "29".					
To indicate a no charge item or free goods, SLN06 will contain a single zero (0) and SLN07 will contain code NC.					
SLN07	639	Basis of Unit Price Code Code identifying the type of unit price for an item	O	ID	2/2
This data element is used to clarify or alter the basis of unit price. The unit price expressed in SLN06 is always in the same terms as the unit of measure in SLN05, unless otherwise specified in SLN07.					
LD Catalog Price per Dozen					
LE Catalog Price per Each					
NC No Charge					
PO Price per Ounce					
PP Price per Pound					
PR Promotion					
QT Quoted					
RD Retail Price per Dozen					
RE Retail Price per Each					
TD Contract Price per Dozen					
TE Contract Price per Each					
WD Wholesale Price per Dozen					
WE Wholesale Price per Each					
SLN08	662	Relationship Code Code indicating the relationship between entities	O	ID	1/1
NOT USED BY THE RETAIL INDUSTRY					

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SLN09	235	Product/Service ID Qualifier Code identifying the type/source of the descriptive number used in Product/Service ID (234)	C ID 2/2
See Section III for code list.			
SLN10	234	Product/Service ID Identifying number for a product or service	C AN 1/48
SLN11	235	Product/Service ID Qualifier Code identifying the type/source of the descriptive number used in Product/Service ID (234)	C ID 2/2
See Section III for code list.			
SLN12	234	Product/Service ID Identifying number for a product or service	C AN 1/48
SLN13	235	Product/Service ID Qualifier Code identifying the type/source of the descriptive number used in Product/Service ID (234)	C ID 2/2
See Section III for code list.			
SLN14	234	Product/Service ID Identifying number for a product or service	C AN 1/48
SLN15	235	Product/Service ID Qualifier Code identifying the type/source of the descriptive number used in Product/Service ID (234)	C ID 2/2
See Section III for code list.			
SLN16	234	Product/Service ID Identifying number for a product or service	C AN 1/48
SLN17	235	Product/Service ID Qualifier Code identifying the type/source of the descriptive number used in Product/Service ID (234)	C ID 2/2
See Section III for code list.			
SLN18	234	Product/Service ID Identifying number for a product or service	C AN 1/48
SLN19	235	Product/Service ID Qualifier Code identifying the type/source of the descriptive number used in Product/Service ID (234)	C ID 2/2
See Section III for code list.			
SLN20	234	Product/Service ID Identifying number for a product or service	C AN 1/48
SLN21	235	Product/Service ID Qualifier Code identifying the type/source of the descriptive number used in Product/Service ID (234)	C ID 2/2
See Section III for code list.			
SLN22	234	Product/Service ID Identifying number for a product or service	C AN 1/48
SLN23	235	Product/Service ID Qualifier Code identifying the type/source of the descriptive number used in Product/Service ID (234)	C ID 2/2
See Section III for code list.			
SLN24	234	Product/Service ID Identifying number for a product or service	C AN 1/48
SLN25	235	Product/Service ID Qualifier Code identifying the type/source of the descriptive number used in Product/Service ID (234)	C ID 2/2
See Section III for code list.			

SLN26	234	Product/Service ID Identifying number for a product or service	C	AN	1/48
SLN27	235	Product/Service ID Qualifier Code identifying the type/source of the descriptive number used in Product/Service ID (234)	C	ID	2/2
See Section III for code list.					
SLN28	234	Product/Service ID Identifying number for a product or service	C	AN	1/48

Segment: **PRF** Purchase Order Reference
Level: Detail - Item
Loop: HL
Usage: Optional
Max Use: 1
Purpose: To provide reference to a specific purchase order
Semantic: 1 PRF04 is the date assigned by the purchaser to purchase order.

Data Element Summary

REF. DES.	DATA ELEMENT	NAME	ATTRIBUTES
PRF01	324	Purchase Order Number Identifying number for Purchase Order assigned by the orderer/purchaser Retailer's original purchase order number	M AN 1/22
PRF02	328	Release Number Number identifying a release against a Purchase Order previously placed by the parties involved in the transaction Retailer's release against the purchase order, if used	O AN 1/30
PRF03	327	Change Order Sequence Number Number assigned by the orderer identifying a specific change or revision to a previously transmitted transaction set NOT USED BY THE RETAIL INDUSTRY	O AN 1/8
PRF04	373	Date Date expressed as CCYYMMDD where CC represents the first two digits of the calendar year Retailer's original purchase order date	O DT 8/8
PRF05	350	Assigned Identification Alphanumeric characters assigned for differentiation within a transaction set NOT USED BY THE RETAIL INDUSTRY	O AN 1/20
PRF06	367	Contract Number Contract number	O AN 1/30
PRF07	92	Purchase Order Type Code Code specifying the type of Purchase Order NOT USED BY THE RETAIL INDUSTRY	O ID 2/2

Segment: PO4 Item Physical Details

Level: Detail - Item

Loop: HL

Usage: Optional

Max Use: 1

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

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

- Semantic:**
- 1** PO415 is used to indicate the relative layer of this package or range of packages within the layers of packaging. Relative Position 1 (value R1) is the innermost package.
 - 2** PO416 is the package identifier or the beginning package identifier in a range of identifiers.
 - 3** PO417 is the ending package identifier in a range of identifiers.
 - 4** PO418 is the number of packages in this layer.

- Comments:**
- A** PO403 - The "Unit or Basis for Measure Code" in this segment position is for purposes of defining the unit of measure of the "Size" identified in the PO402. 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".
- B** PO413 defines the unit of measure for PO410, PO411, and PO412.

Notes: This segment is used to specify the packaging of the item in the case or carton. There may be two levels of packaging specified. The first level is always specified by using PO401 (Pack). The first level may be actual items, e.g., consumer units, or it may be the number of smaller containers within the case. The second level, specified using PO414 (Inner Pack), is the number of eaches in each inner container when PO401 is the number of smaller containers within the case. See Section V (Pack/Inner Pack Usage) for usage examples.

This segment can be used to specify the weight for the item by using PO406 and PO407, and to specify the volume (cube) by using PO408 and PO409.

Data Element Summary

REF. DES.	DATA ELEMENT	NAME	ATTRIBUTES
PO401	356	Pack The number of inner containers, or number of eaches if there are no inner containers, per outer container	O NO 1/6
PO402	357	Size Size of supplier units in pack	C R 1/8
NOT USED BY THE RETAIL INDUSTRY			
PO403	355	Unit or Basis for Measurement Code Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken	C ID 2/2
NOT USED BY THE RETAIL INDUSTRY			
PO404	103	Packaging Code Code identifying the type of packaging; Part 1: Packaging Form, Part 2: Packaging Material; if the Data Element is used, then Part 1 is always required	C AN 3/5
NOT USED BY THE RETAIL INDUSTRY			
PO405	187	Weight Qualifier Code defining the type of weight	O ID 1/2
NOT USED BY THE RETAIL INDUSTRY			
PO406	384	Gross Weight per Pack Numeric value of gross weight per pack	C R 1/9
PO407	355	Unit or Basis for Measurement Code Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken	C ID 2/2
See Section III for code list.			
PO408	385	Gross Volume per Pack Numeric value of gross volume per pack	C R 1/9
PO409	355	Unit or Basis for Measurement Code Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken	C ID 2/2
See Section III for code list.			
PO410	82	Length Largest horizontal dimension of an object measured when the object is in the upright position	C R 1/8
NOT USED BY THE RETAIL INDUSTRY			
PO411	189	Width Shorter measurement of the two horizontal dimensions measured with the object in the upright position	C R 1/8
NOT USED BY THE RETAIL INDUSTRY			
PO412	65	Height Vertical dimension of an object measured when the object is in the upright position	C R 1/8
NOT USED BY THE RETAIL INDUSTRY			
PO413	355	Unit or Basis for Measurement Code Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken	C ID 2/2
NOT USED BY THE RETAIL INDUSTRY			
PO414	810	Inner Pack The number of eaches per inner container	O NO 1/6
PO415	752	Surface/Layer/Position Code Code indicating the product surface, layer or position that is being described	O ID 2/2
NOT USED BY THE RETAIL INDUSTRY			

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PO416	350	Assigned Identification Alphanumeric characters assigned for differentiation within a transaction set	C	AN	1/20
NOT USED BY THE RETAIL INDUSTRY					
PO417	350	Assigned Identification Alphanumeric characters assigned for differentiation within a transaction set	O	AN	1/20
NOT USED BY THE RETAIL INDUSTRY					
PO418	1470	Number A generic number	O	N0	1/9
NOT USED BY THE RETAIL INDUSTRY					

Segment: PID Product/Item Description

Level: Detail - Item

Loop: HL

Usage: Optional

Max Use: 200

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

Syntax: 1 C0403
If PID04 is present, then PID03 is required.

2 R0405
At least one of PID04 or PID05 is required.

3 C0703
If PID07 is present, then PID03 is required.

4 C0804
If PID08 is present, then PID04 is required.

5 C0905
If PID09 is present, then PID05 is required.

Semantic: 1 Use PID03 to indicate the organization that publishes the code list being referred to.

2 PID04 should be used for industry-specific product description codes.

3 PID08 describes the physical characteristics of the product identified in PID04. A "Y" indicates that the specified attribute applies to this item; an "N" indicates it does not apply. Any other value is indeterminate.

4 PID09 is used to identify the language being used in PID05.

Comments: A If PID01 equals "F", then PID05 is used. If PID01 equals "S", then PID04 is used. If PID01 equals "X", then both PID04 and PID05 are used.

B Use PID06 when necessary to refer to the product surface or layer being described in the segment.

C PID07 specifies the individual code list of the agency specified in PID03.

Notes: The PID segment is used to provide product/item descriptions in text and or coded formats. The codes in PID04 are published only in this guideline.

Data Element Summary

REF. DES.	DATA ELEMENT	NAME	ATTRIBUTES
PID01	349	Item Description Type Code indicating the format of a description F Free-form S Structured (From Industry Code List) X Semi-structured (Code and Text)	M ID 1/1
		The description will be found in PID05.	
		The description will be found in PID04.	
		The description will be found in PID04 and PID05.	
PID02	750	Product/Process Characteristic Code Code identifying the general class of a product or process characteristic 08 Product 73 Vendor color description 74 Vendor size description	O ID 2/3
PID03	559	Agency Qualifier Code Code identifying the agency assigning the code values VI Voluntary Inter-Industry Commerce Standard (VICS) EDI See External Code Source 70 in Section III for reference document.	C ID 2/2

PID04	751	Product Description Code A code from an industry code list which provides specific data about a product characteristic	C AN	1/12
		CL Collateral GW Gift with purchase OS Size not within normal size range (odd size) PP Product sold only as part of a prepack (assortment) PW Purchase with pPurchase RN Product cannot be reordered RY Product can be reordered		
PID05	352	Description A free-form description to clarify the related data elements and their content	C AN	1/80
PID06	752	Surface/Layer/Position Code Code indicating the product surface, layer or position that is being described	O ID	2/2
		NOT USED BY THE RETAIL INDUSTRY		
PID07	822	Source Subqualifier A reference that indicates the table or text maintained by the Source Qualifier	O AN	1/15
		NOT USED BY THE RETAIL INDUSTRY		
PID08	1073	Yes/No Condition or Response Code Code indicating a Yes or No condition or response	O ID	1/1
		NOT USED BY THE RETAIL INDUSTRY		
PID09	819	Language Code Code designating the language used in text, from a standard code list maintained by the International Standards Organization (ISO 639)	O ID	2/3
		NOT USED BY THE RETAIL INDUSTRY		

Segment: MEA Measurements

Level: Detail - Item

Loop: HL

Usage: Optional

Max Use: 40

Purpose: To specify physical measurements or counts, including dimensions, tolerances, variances, and weights

Syntax: 1 R03050608

At least one of MEA03, MEA05, MEA06 or MEA08 is required.

2 E0412

Only one of MEA04 or MEA12 may be present.

3 L050412

If MEA05 is present, then at least one of MEA04 or MEA12 is required.

4 L060412

If MEA06 is present, then at least one of MEA04 or MEA12 is required.

5 L07030506

If MEA07 is present, then at least one of MEA03, MEA05 or MEA06 is required.

6 E0803

Only one of MEA08 or MEA03 may be present.

7 P1112

If either MEA11 or MEA12 is present, then the other is required.

Semantic: 1 MEA04 defines the unit of measure for MEA03, MEA05, and MEA06.

2 MEA11 is the external code list for the unit of measure.

3 MEA12 defines the unit of measure for MEA03, MEA05, and MEA06 from an external code list.

Comments: A When citing dimensional tolerances, any measurement requiring a sign (+ or -), or any measurement where a positive (+) value cannot be assumed, use MEA05 as the negative (-) value and MEA06 as the positive (+) value.

Data Element Summary

REF. DES.	DATA ELEMENT	NAME	ATTRIBUTES
MEA01	737	Measurement Reference ID Code Code identifying the broad category to which a measurement applies PD Physical Dimensions SE Property Specifications These are the measurements of the area where the product is to be installed, e.g., window dimensions, fireplace box dimensions, etc.	O ID 2/2
MEA02	738	Measurement Qualifier Code identifying a specific product or process characteristic to which a measurement applies DP Depth HT Height LN Length WD Width	O ID 1/3
MEA03	739	Measurement Value The value of the measurement	C R 1/20
MEA04	C001	COMPOSITE UNIT OF MEASURE To identify a composite unit of measure	C COMPOSITE
- 1	355	Unit or Basis for Measurement Code 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.	M ID 2/2

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- 2	1018	Exponent Power to which a unit is raised	O	R	1/15
NOT USED BY THE RETAIL INDUSTRY					
- 3	649	Multiplier Value to be used as a multiplier to obtain a new value	O	R	1/10
NOT USED BY THE RETAIL INDUSTRY					
- 4	355	Unit or Basis for Measurement Code Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken	O	ID	2/2
NOT USED BY THE RETAIL INDUSTRY					
- 5	1018	Exponent Power to which a unit is raised	O	R	1/15
NOT USED BY THE RETAIL INDUSTRY					
- 6	649	Multiplier Value to be used as a multiplier to obtain a new value	O	R	1/10
NOT USED BY THE RETAIL INDUSTRY					
- 7	355	Unit or Basis for Measurement Code Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken	O	ID	2/2
NOT USED BY THE RETAIL INDUSTRY					
- 8	1018	Exponent Power to which a unit is raised	O	R	1/15
NOT USED BY THE RETAIL INDUSTRY					
- 9	649	Multiplier Value to be used as a multiplier to obtain a new value	O	R	1/10
NOT USED BY THE RETAIL INDUSTRY					
- 10	355	Unit or Basis for Measurement Code Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken	O	ID	2/2
NOT USED BY THE RETAIL INDUSTRY					
- 11	1018	Exponent Power to which a unit is raised	O	R	1/15
NOT USED BY THE RETAIL INDUSTRY					
- 12	649	Multiplier Value to be used as a multiplier to obtain a new value	O	R	1/10
NOT USED BY THE RETAIL INDUSTRY					
- 13	355	Unit or Basis for Measurement Code Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken	O	ID	2/2
NOT USED BY THE RETAIL INDUSTRY					
- 14	1018	Exponent Power to which a unit is raised	O	R	1/15
NOT USED BY THE RETAIL INDUSTRY					
- 15	649	Multiplier Value to be used as a multiplier to obtain a new value	O	R	1/10
NOT USED BY THE RETAIL INDUSTRY					
MEA05	740	Range Minimum The value specifying the minimum of the measurement range	C	R	1/20
MEA06	741	Range Maximum The value specifying the maximum of the measurement range	C	R	1/20
MEA07	935	Measurement Significance Code Code used to benchmark, qualify or further define a measurement value	O	ID	2/2
NOT USED BY THE RETAIL INDUSTRY					

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MEA08	936	Measurement Attribute Code Code used to express an attribute response when a numeric measurement value cannot be determined	C	ID	2/2
NOT USED BY THE RETAIL INDUSTRY					
MEA09	752	Surface/Layer/Position Code Code indicating the product surface, layer or position that is being described	O	ID	2/2
NOT USED BY THE RETAIL INDUSTRY					
MEA10	1373	Measurement Method or Device The method or device used to record the measurement	O	ID	2/4
NOT USED BY THE RETAIL INDUSTRY					
MEA11	1270	Code List Qualifier Code Code identifying a specific industry code list	C	ID	1/3
MEA12	1271	Industry Code Code indicating a code from a specific industry code list	C	AN	1/30

Segment: PKG Marking, Packaging, Loading

Level: Detail - Item

Loop: HL

Usage: Optional

Max Use: 25

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

Syntax: 1 **R040506**

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

2 **C0403**

If PKG04 is present, then PKG03 is required.

3 **C0501**

If PKG05 is present, then PKG01 is required.

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

Comments: A Use the MEA (Measurements) Segment to define dimensions, tolerances, weights, counts, physical restrictions, etc.

B If PKG01 equals "F", then PKG05 is used. If PKG01 equals "S", then PKG04 is used. If PKG01 equals "X", then both PKG04 and PKG05 are used.

C Use PKG03 to indicate the organization that publishes the code list being referred to.

D Special marking or tagging data can be given in PKG05 (description).

Notes: This segment, at the item level, is used to notify the receiver that ticketing (item marking) was not as originally requested or expected. Part II of PKG04 describes what, if any, ticket is on the item. This is only for exceptions. The receiver assumes all items are marked as requested if not otherwise stated.

The codes in PKG04 are published only in this guideline.

Data Element Summary

REF. DES.	DATA ELEMENT	NAME	ATTRIBUTES
▶ PKG01	349	Item Description Type Code indicating the format of a description S Structured (From Industry Code List) The description will be found in PKG04.	C ID 1/1
PKG02	753	Packaging Characteristic Code Code specifying the marking, packaging, loading and related characteristics being described 34 Product Marking	O ID 1/5
PKG03	559	Agency Qualifier Code Code identifying the agency assigning the code values VI Voluntary Inter-Industry Commerce Standard (VICS) EDI See External Code Source 70 in Section III for reference document.	C ID 2/2

PKG04	754	Packaging Description Code	C AN 1/7
A code from an industry code list which provides specific data about the marking, packaging or loading and unloading of a product			
Part 1: Service Type (Positions 1&2)			
HN Hanger Service not as requested			
TN Ticketing Service not as requested			
Part 2: Ticket Format Code (Positions 3&4)			
01 No Ticket			
02 Hang Tag (swiftach)			
03 Gummed Label			
04 Pin Ticket			
05 String Ticket (string around button)			
06 Hang Tag (securtach)			
07 Dumbell Gum (jewelry)			
08 Double Gummed Label (peel off on gummed label)			
99 Non Standard Ticket			
PKG05	352	Description	C AN 1/80
A free-form description to clarify the related data elements and their content			
NOT USED BY THE RETAIL INDUSTRY			
PKG06	400	Unit Load Option Code	C ID 2/2
Code identifying loading or unloading a shipment			
NOT USED BY THE RETAIL INDUSTRY			

Segment: TD1 Carrier Details (Quantity and Weight)

Level: Detail - Item

Loop: HL

Usage: Optional

Max Use: 20

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

Syntax: 1 **C0102**
If TD101 is present, then TD102 is required.

2 **C0304**
If TD103 is present, then TD104 is required.

3 **C0607**
If TD106 is present, then TD107 is required.

4 **P0708**
If either TD107 or TD108 is present, then the other is required.

5 **P0910**
If either TD109 or TD110 is present, then the other is required.

Notes: This segment, at the item level, is used only in a standard carton pack structure, to specify the number, type and total weight of the shipping containers for the item (SKU).

Data Element Summary

REF. DES.	DATA ELEMENT	NAME	ATTRIBUTES
TD101	103	Packaging Code Code identifying the type of packaging; Part 1: Packaging Form, Part 2: Packaging Material; if the Data Element is used, then Part 1 is always required	O AN 3/5
		Part 1	
		BAG Bag	
		CTN Carton	
		PLT Pallet	
		Part 2	
		01 Aluminum	
		25 Corrugated or Solid	
		31 Fibre	
		76 Paper	
		79 Plastic	
		94 Wood	
TD102	80	Lading Quantity Number of units (pieces) of the lading commodity	C NO 1/7
TD103	23	Commodity Code Qualifier Code identifying the commodity coding system used for Commodity Code	O ID 1/1
		NOT USED BY THE RETAIL INDUSTRY	
TD104	22	Commodity Code Code describing a commodity or group of commodities	C AN 1/30
		NOT USED BY THE RETAIL INDUSTRY	
TD105	79	Lading Description Description of an item as required for rating and billing purposes	O AN 1/50
		NOT USED BY THE RETAIL INDUSTRY	
TD106	187	Weight Qualifier Code defining the type of weight	O ID 1/2
		G Gross Weight	
TD107	81	Weight Numeric value of weight	C R 1/10

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TD108	355	Unit or Basis for Measurement Code	C	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.			
TD109	183	Volume	C	R	1/8
		Value of volumetric measure			
		NOT USED BY THE RETAIL INDUSTRY			
TD110	355	Unit or Basis for Measurement Code	C	ID	2/2
		Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken			
		NOT USED BY THE RETAIL INDUSTRY			

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

Level: Detail - Item

Loop: HL

Usage: Optional

Max Use: 12

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

Syntax: 1 **R0204050612**

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

2 **C0203**

If TD502 is present, then TD503 is required.

3 **C0708**

If TD507 is present, then TD508 is required.

4 **C1011**

If TD510 is present, then TD511 is required.

5 **C1312**

If TD513 is present, then TD512 is required.

6 **C1413**

If TD514 is present, then TD513 is required.

7 **C1512**

If TD515 is present, then TD512 is required.

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

Comments: A 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, at the item level, is used only to specify the status of the item.

Data Element Summary

REF. DES.	DATA ELEMENT	NAME	ATTRIBUTES
TD501	133	Routing Sequence Code Code describing the relationship of a carrier to a specific shipment movement NOT USED BY THE RETAIL INDUSTRY	O ID 1/2
TD502	66	Identification Code Qualifier Code designating the system/method of code structure used for Identification Code (67) NOT USED BY THE RETAIL INDUSTRY	C ID 1/2
TD503	67	Identification Code Code identifying a party or other code NOT USED BY THE RETAIL INDUSTRY	C AN 2/80
TD504	91	Transportation Method/Type Code Code specifying the method or type of transportation for the shipment NOT USED BY THE RETAIL INDUSTRY	C ID 1/2
TD505	387	Routing Free-form description of the routing or requested routing for shipment, or the originating carrier's identity NOT USED BY THE RETAIL INDUSTRY	C AN 1/35
TD506	368	Shipment/Order Status Code 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 BK Back Ordered from Previous Order BP Shipment Partial, Back Order to Ship on (Date)	C ID 2/2

		CC Shipment Complete on (Date)			
		CM Shipment Complete with Additional Quantity			
		CP Partial Shipment on (Date), Considered No Backorder			
		CS Shipment Complete with Substitution			
		IS Item Represents Substitution from Original Order			
		PR Partial Shipment			
		SS Split Shipment			
TD507	309	Location Qualifier Code identifying type of location	O	ID	1/2
		NOT USED BY THE RETAIL INDUSTRY			
TD508	310	Location Identifier Code which identifies a specific location	C	AN	1/30
		NOT USED BY THE RETAIL INDUSTRY			
TD509	731	Transit Direction Code The point of origin and point of direction	O	ID	2/2
		NOT USED BY THE RETAIL INDUSTRY			
TD510	732	Transit Time Direction Qualifier Code specifying the value of time used to measure the transit time	O	ID	2/2
		NOT USED BY THE RETAIL INDUSTRY			
TD511	733	Transit Time The numeric amount of transit time	C	R	1/4
		NOT USED BY THE RETAIL INDUSTRY			
TD512	284	Service Level Code Code indicating the level of transportation service or the billing service offered by the transportation carrier	C	ID	2/2
		NOT USED BY THE RETAIL INDUSTRY			
TD513	284	Service Level Code Code indicating the level of transportation service or the billing service offered by the transportation carrier	C	ID	2/2
		NOT USED BY THE RETAIL INDUSTRY			
TD514	284	Service Level Code Code indicating the level of transportation service or the billing service offered by the transportation carrier	O	ID	2/2
		NOT USED BY THE RETAIL INDUSTRY			
TD515	26	Country Code Code identifying the country	O	ID	2/3
		NOT USED BY THE RETAIL INDUSTRY			

Segment: **TD4** Carrier Details (Special Handling, or Hazardous Materials, or Both)
Level: Detail - Item
Loop: HL
Usage: Optional
Max Use: 5
Purpose: To specify transportation special handling requirements, or hazardous materials information, or both
Syntax: 1 **R010204**
 At least one of TD401, TD402 or TD404 is required.
 2 **C0203**
 If TD402 is present, then TD403 is required.
Semantic: 1 TD405 identifies if a Material Safety Data Sheet (MSDS) exists for this product. A "Y" indicates an MSDS exists for this product; an "N" indicates an MSDS does not exist for this product.

Data Element Summary

REF. DES.	DATA ELEMENT	NAME	ATTRIBUTES		
TD401	152	Special Handling Code Code specifying special transportation handling instructions CO No Marshalling Required for Hazardous Materials DA Dangerous EX Explosive Flammable Gas FG Flammable Gas FL Flammable FP Flammable Poison Gas HM Endorsed as Hazardous Material NPR No Placards Required NW In Case of Fire Do Not Use Water PG Poisonous Gas RM Radioactive Material UN Unload as Placarded	C	ID	2/3
TD402	208	Hazardous Material Code Qualifier Code which qualifies the Hazardous Material Class Code (209) 9 Title 49, Code of Federal Regulations (CFR) See External Code Source 52 in Section III for reference document. U United Nations See External Code Source 53 in Section III for reference document.	C	ID	1/1
TD403	209	Hazardous Material Class Code Code specifying the kind of hazard for a material	C	AN	1/4
TD404	352	Description A free-form description to clarify the related data elements and their content NOT USED BY THE RETAIL INDUSTRY	C	AN	1/80
TD405	1073	Yes/No Condition or Response Code Code indicating a Yes or No condition or response NOT USED BY THE RETAIL INDUSTRY	O	ID	1/1

Segment: **REF** Reference Information
Level: Detail - Item
Loop: HL
Usage: Optional
Max Use: >1
Purpose: To specify identifying information
Syntax: 1 **R0203**
 At least one of REF02 or REF03 is required.
Semantic: 1 REF04 contains data relating to the value cited in REF02.

Data Element Summary

REF. DES.	DATA ELEMENT	NAME	ATTRIBUTES
➤ REF01	128	Reference Identification Qualifier Code qualifying the Reference Identification CO Customer Order Number Customer of retailer SE Serial Number	M ID 2/3
➤ REF02	127	Reference Identification Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	C AN 1/50
REF03	352	Description A free-form description to clarify the related data elements and their content NOT USED BY THE RETAIL INDUSTRY	C AN 1/80
REF04	C040	REFERENCE IDENTIFIER To identify one or more reference numbers or identification numbers as specified by the Reference Qualifier NOT USED BY THE RETAIL INDUSTRY	O COMPOSITE

Segment: DTM Date/Time Reference

Level: Detail - Item

Loop: HL

Usage: Optional

Max Use: 10

Purpose: To specify pertinent dates and times

Syntax: 1 **R020305**

At least one of DTM02, DTM03 or DTM05 is required.

2 **C0403**

If DTM04 is present, then DTM03 is required.

3 **P0506**

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

Data Element Summary

REF. DES.	DATA ELEMENT	NAME	ATTRIBUTES
➤	DTM01	374 Date/Time Qualifier Code specifying type of date or time, or both date and time 036 Expiration Used for perishable products	M ID 3/3
➤	DTM02	373 Date Date expressed as CCYYMMDD where CC represents the first two digits of the calendar year	C DT 8/8
	DTM03	337 Time 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) NOT USED BY THE RETAIL INDUSTRY	C TM 4/8
	DTM04	623 Time Code Code identifying the time. In accordance with International Standards Organization standard 8601, time can be specified by a + or - and an indication in hours in relation to Universal Time Coordinate (UTC) time; since + is a restricted character, + and - are substituted by P and M in the codes that follow NOT USED BY THE RETAIL INDUSTRY	O ID 2/2
	DTM05	1250 Date Time Period Format Qualifier Code indicating the date format, time format, or date and time format NOT USED BY THE RETAIL INDUSTRY	C ID 2/3
	DTM06	1251 Date Time Period Expression of a date, a time, or range of dates, times or dates and times NOT USED BY THE RETAIL INDUSTRY	C AN 1/35

Segment: SAC Service, Promotion, Allowance, or Charge Information

Level: Detail - Item

Loop: HL/SAC **Usage:** Optional **Max Use:** >1

Usage: Mandatory

Max Use: 1

Purpose: 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 R0203

At least one of SAC02 or SAC03 is required.

2 P0304

If either SAC03 or SAC04 is present, then the other is required.

3 P0607

If either SAC06 or SAC07 is present, then the other is required.

4 P0910

If either SAC09 or SAC10 is present, then the other is required.

5 C1110

If SAC11 is present, then SAC10 is required.

6 L130204

If SAC13 is present, then at least one of SAC02 or SAC04 is required.

7 C1413

If SAC14 is present, then SAC13 is required.

8 C1615

If SAC16 is present, then SAC15 is required.

Semantic: 1 If SAC01 is "A" or "C", then at least one of SAC05, SAC07, or SAC08 is required.

2 SAC05 is the total amount for the service, promotion, allowance, or charge.

3 If SAC05 is present with SAC07 or SAC08, then SAC05 takes precedence.

4 SAC08 is the allowance or charge rate per unit.

5 SAC10 and SAC11 is the quantity basis when the allowance or charge quantity is different from the purchase order or invoice quantity.

6 SAC10 and SAC11 used together indicate a quantity range, which could be a dollar amount, that is applicable to service, promotion, allowance, or charge.

7 SAC13 is used in conjunction with SAC02 or SAC04 to provide a specific reference number as identified by the code used.

8 SAC14 is used in conjunction with SAC13 to identify an option when there is more than one option of the promotion.

9 SAC16 is used to identify the language being used in SAC15.

Comments: A SAC04 may be used to uniquely identify the service, promotion, allowance, or charge. In addition, it may be used in conjunction with SAC03 to further define SAC02.

B In some business applications, it is necessary to advise the trading partner of the actual dollar amount that a particular allowance, charge, or promotion was based on to reduce ambiguity. This amount is commonly referred to as "Dollar Basis Amount". It is represented in the SAC segment in SAC10 using the qualifier "DO" - Dollars in SAC09.

Notes: **There is one segment for each Allowance, Charge, Service, or Promotion being specified. If this segment appears in the item level of the transaction set, the data applies only to that line item.**

This segment is primarily used to indicate free goods or ticketing service (D170 or I060 in SAC02 respectively).

Data Element Summary

REF. DES.	DATA ELEMENT	NAME	ATTRIBUTES			
➤	SAC01	248	Allowance or Charge Indicator Code which indicates an allowance or charge for the service specified A Allowance C Charge N No Allowance or Charge	M	ID	1/1
➤	SAC02	1300	Service, Promotion, Allowance, or Charge Code Code identifying the service, promotion, allowance, or charge	C	ID	4/4
	SAC03	559	Agency Qualifier Code Code identifying the agency assigning the code values NOT USED BY THE RETAIL INDUSTRY	C	ID	2/2
	SAC04	1301	Agency Service, Promotion, Allowance, or Charge Code Agency maintained code identifying the service, promotion, allowance, or charge NOT USED BY THE RETAIL INDUSTRY	C	AN	1/10
	SAC05	610	Amount Monetary amount When SAC01 contains code A or code C, then this data element is required. This will resolve any differences between the sender's and receiver's system calculations of amounts, i.e., rounding errors when allowances or charges are expressed in percentages or rates.	O	N2	1/15
	SAC06	378	Allowance/Charge Percent Qualifier Code indicating on what basis allowance or charge percent is calculated 1 Item List Cost 2 Item Net Cost 3 Discount/Gross All allowances are off the gross price including cash discount. 4 Discount/Net All allowances are off the gross price. Cash discounts are off the net price. 5 Base Price per Unit Line item discount 6 Base Price Amount 7 Base Price Amount Less Previous Discount Declining balance method	C	ID	1/1
	SAC07	332	Percent, Decimal Format Percent given in decimal format (e.g., 0.0 through 100.0 represents 0% through 100%) The percent is sent with a decimal point only when needed, e.g., 10.5% is sent as "10.5", and 2% is sent as "2".	C	R	1/6
	SAC08	118	Rate Rate expressed in the standard monetary denomination for the currency specified	O	R	1/9
	SAC09	355	Unit or Basis for Measurement Code 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.	C	ID	2/2
	SAC10	380	Quantity Numeric value of quantity When SAC02 contains code D170, this data element is required and will contain the quantity of free goods. The unit of measure is in SAC09. SAC10 alone is used to indicate a specific quantity which could be a dollar amount, that is applicable to the service, promotion, allowance, or charge.	C	R	1/15
	SAC11	380	Quantity Numeric value of quantity	O	R	1/15

SAC12	331	Allowance or Charge Method of Handling Code Code indicating method of handling for an allowance or charge	O ID 2/2
	01	Bill Back The allowance or charge amount will be adjudicated as a separate item, i.e., a debit/credit memo or a separate invoice. The amount will not be reflected in the invoice total amount.	
	02	Off Invoice The allowance or charge amount will be reflected in the total transaction amount, e.g., Total Invoice Amount = Merchandise Price + Charges - Allowances.	
	03	Vendor Check to Customer The vendor will issue a check directly to the customer of the retailer, or end consumer, for the allowance or charge amount. The amount is not reflected in the total invoice amount.	
	04	Credit Customer Account The retailer's account will be credited for the amount of the allowance or charge. The amount is not reflected in the total invoice amount.	
	05	Charge to be Paid by Vendor The vendor is responsible for the allowance or charge amount. The trading partners have agreed to the exact amount of adjudication. The amount will not be reflected in the total invoice amount.	
	06	Charge to be Paid by Customer When the order/item is a direct ship to the customer, or end consumer of the retailer, the allowance or charge amount is the responsibility of the customer or end consumer. If it is not a drop ship to the customer of the retailer, then the allowance or charge amount is the responsibility of the retailer. The exact method of adjudication has been agreed to by the trading partners. The amount will not be reflected in the total invoice amount.	
SAC13	127	Reference Identification Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	C AN 1/50
SAC14	770	Option Number A unique number identifying available promotion or allowance options when more than one is offered	O AN 1/20
SAC15	352	Description A free-form description to clarify the related data elements and their content	C AN 1/80
SAC16	819	Language Code Code designating the language used in text, from a standard code list maintained by the International Standards Organization (ISO 639) See External Code Source 102 in Section III for reference document.	O ID 2/3

Segment: CTT Transaction Totals

Level: Summary

Loop: ____

Usage: Optional

Max Use: 1

Purpose: To transmit a hash total for a specific element in the transaction set

Syntax: 1 **P0304**

If either CTT03 or CTT04 is present, then the other is required.

2 **P0506**

If either CTT05 or CTT06 is present, then the other is required.

Comments: A This segment is intended to provide hash totals to validate transaction completeness and correctness.

Data Element Summary

REF. DES.	DATA ELEMENT	NAME	ATTRIBUTES
CTT01	354	Number of Line Items Total number of line items in the transaction set The number of HL segments present in the transaction set	M NO 1/6
CTT02	347	Hash Total Sum of values of the specified data element. All values in the data element will be summed without regard to decimal points (explicit or implicit) or signs. Truncation will occur on the left most digits if the sum is greater than the maximum size of the hash total of the data element. NOT USED BY THE RETAIL INDUSTRY	O R 1/10
CTT03	81	Weight Numeric value of weight NOT USED BY THE RETAIL INDUSTRY	C R 1/10
CTT04	355	Unit or Basis for Measurement Code Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken NOT USED BY THE RETAIL INDUSTRY	C ID 2/2
CTT05	183	Volume Value of volumetric measure NOT USED BY THE RETAIL INDUSTRY	C R 1/8
CTT06	355	Unit or Basis for Measurement Code Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken NOT USED BY THE RETAIL INDUSTRY	C ID 2/2
CTT07	352	Description A free-form description to clarify the related data elements and their content NOT USED BY THE RETAIL INDUSTRY	O AN 1/80

Segment: SE Transaction Set Trailer

Level: Summary

Loop: ___

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)

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

Data Element Summary

REF. DES.	DATA ELEMENT	NAME	ATTRIBUTES
➤ SE01	96	Number of Included Segments Total number of segments included in a transaction set including ST and SE segments	M NO 1/10
➤ SE02	329	Transaction Set Control Number 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
This must be the same number as is in the ST segment (ST02) for the transaction set.			