

Wal-Mart Stores, Inc.

Electronic Data Interchange Implementation Guideline
ANSI X12 Version 5010

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856 Ship Notice/Manifest

Ship Notice/Manifest

Business Usage:

Pick and Pack Structure

DSDC Shipments

Store Shipments

EDI Direction: To Wal-Mart

Implementation Guide Version 1.1

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Wal-Mart Stores, Inc. Introduction to the 856 Ship Notice/Manifest Transaction Set

Wal-Mart complies with the Retail Industry Conventions as published in the Voluntary Inter-Industry Communications Standard (VICS) for the 856 Ship Notice/Manifest transaction set. This document contains specifications and recommendations for inclusion of specific data elements supported by the VICS standard. Wal-Mart computer applications use the data elements in this document to manage the transportation, distribution, and receiving of your products for our stores or distribution centers. Other information sent in 856 segments will not be read into the system but will not cause an error condition. This will enable you to send similar 856 documents to other retailers and not have to do extensive customization to meet Wal-Mart's specifications. Wal-Mart's required and optional segments and data elements are noted within this document.

A **Functional Acknowledgment**, VICS/EDI transaction set 997, will be sent to acknowledge EDI compliance of your 856 transaction set. If for any reason, your transaction is not compliant and you receive a rejected acknowledgment, you must correct the issue and re-send your transaction within 24 hours.

If there are omissions or erroneous data detected by our receiving or traffic applications an **Application Advice** VICS/EDI 824 transaction set will be sent to you. A separate implementation guide for the 824 document may be found on Retail Link. If you receive an 824, please correct and resend the erroneous data within 24 hours.

The purpose of the 856 is to enable vendors to notify Wal-Mart that merchandise for a specific purchase order has been shipped. The transaction set contains data about the vendor's shipment, the original Wal-Mart order, and identifies the differences in order quantities or substitutions shipped against the purchase order. It also contains information used to track the items shipped at the carton level. This carton "license plate" is the UCC-128 Serial Shipping Container Code. Use of the UCC-128 barcode on cartons and pallets expedites the receiving of merchandise at the Wal-Mart business units (distribution centers, stores and clubs) enabling rapid verification of receipt and expeditious payment to the vendors. Two items are considered to be critical success factors, resulting in your successful implementation of the ship.

- **Accuracy** - You must strive to ensure that the data you send us will be 100% accurate, 100% of the time. Data that is 99% accurate provides no benefit for either of us. One of the most common actions that prevents 100% accuracy is attempting to create the 856 from data showing what should have been picked, rather than generating it from what was actually shipped.

- **Timing** - In order to be of any benefit, the data must arrive at the Wal-Mart receiving point before the merchandise. Several things must happen between the moment the delivery truck departs from your shipping dock and before it arrives at our receiving dock. You must collect the shipment data, transform it into an 856 and communicate the data to Wal-Mart. Our systems will process this data in an event-driven architecture to process the information, validate it and deliver it to the receiving point without delay.

Validation

The following is a condensed list of items which are validated in the Wal-Mart application systems. Correct transmission of this information will speed the processing and improve the benefits of the Advanced Ship Notice for DSDC and Store shipments.

- Document Structure (HL Sequence and Parentage)
- Ship-to Location must be a valid business unit
- Purchase Order Number (for non-DSD orders)
- Purchase Order Date (for non-DSD orders)
- Vendor Number (the Wal-Mart 9-digit vendor number is required)
- Mark-for must be a valid business unit
- Vendor must be authorized to submit ASN's by the EDI Help Desk
- Item/UPC Numbers (Item/UPC numbers must be valid)

Any code from the VICS Code Definitions and Code Lists will be read by our application, but only those contained in this document will be acted upon by our applications.

Your compliance is strongly encouraged to permit Wal-Mart to readily receive and pay you for the merchandise you ship and increase the productivity of the entire distribution chain. Use of the 856 and UCC-128 barcode will enable in-stock percentages and should result in increased sales of your product. We appreciate you as a supplier trading partner and solicit your support in helping get your product to the market.

Business Changes

To support our growing company, Wal-Mart Stores, Inc. will be incorporating the following business changes into this 5010 upgrade.

Wal-Mart will utilize the GTIN (Global Traded Item Number) in EDI X12 Version 5010. GTIN information will be sent in addition to the Item/UPC code. It will be the suppliers' responsibility to handle the information as their systems become GTIN compliant. For more information regarding GTIN, please visit the website of the UCC or the appropriate numbering organization .

How to contact the EDI Supplier Support

For answers to any questions regarding this Implementation Guide, contact the EDI Supplier Support at (479) 273-8888. You will need to select the option for the Traffic Logistics Team. Questions can also be communicated to the Supplier Support using email. Any emails should be sent to **edi@wal-mart.com**.

856 Ship Notice/Manifest - Wal-Mart Stores, Inc. Implementation

Functional Group ID=**SH**

Heading:

	<u>Pos. No.</u>	<u>Seg. ID</u>	<u>Name</u>	<u>Req. Des.</u>	<u>Max.Use</u>	<u>Loop Repeat</u>	<u>Notes and Comments</u>
M	0100	ST	Transaction Set Header	M	1		
M	0200	BSN	Beginning Segment for Ship Notice	M	1		

Detail:

	<u>Pos. No.</u>	<u>Seg. ID</u>	<u>Name</u>	<u>Req. Des.</u>	<u>Max.Use</u>	<u>Loop Repeat</u>	<u>Notes and Comments</u>
			LOOP ID - HL			200000	
M	0100	HL	Hierarchical Level - Shipment	M	1		c1
	1100	TD1	Carrier Details (Quantity and Weight)	O	20		
	1200	TD5	Carrier Details (Routing Sequence/Transit Time)	O	12		
			LOOP ID - TD3			12	
	1300	TD3	Carrier Details (Equipment)	O	1		
	1500	REF	Reference Information	O	>1		
	1900	MAN	Marks and Numbers Information	O	>1		
	2000	DTM	Date/Time Reference	O	10		
	2100	FOB	F.O.B. Related Instructions	O	1		
			LOOP ID - N1			200	
	2200	N1	Party Identification	O	1		

	<u>Pos. No.</u>	<u>Seg. ID</u>	<u>Name</u>	<u>Req. Des.</u>	<u>Max.Use</u>	<u>Loop Repeat</u>	<u>Notes and Comments</u>
			LOOP ID - HL			200000	
M	0100	HL	Hierarchical Level - Order	M	1		
	0500	PRF	Purchase Order Reference	O	1		
	1500	REF	Reference Information	O	>1		
			LOOP ID - N1			200	
	2200	N1	Party Identification	O	1		
	3100	CUR	Currency	O	1		

	<u>Pos. No.</u>	<u>Seg. ID</u>	<u>Name</u>	<u>Req. Des.</u>	<u>Max.Use</u>	<u>Loop Repeat</u>	<u>Notes and Comments</u>
			LOOP ID - HL			200000	
M	0100	HL	Hierarchical Level - Shipping Tare	M	1		
	1450	TSD	Trailer Shipment Details	O	1		
	1900	MAN	Marks and Numbers Information	O	>1		
	2150	PAL	Pallet Type and Load Characteristics	O	1		

	<u>Pos. No.</u>	<u>Seg. ID</u>	<u>Name</u>	<u>Req. Des.</u>	<u>Max.Use</u>	<u>Loop Repeat</u>	<u>Notes and Comments</u>
			LOOP ID - HL			200000	
M	0100	HL	Hierarchical Level - Pack	M	1		
	0200	LIN	Item Identification	O	1		
	0300	SN1	Item Detail (Shipment)	O	1		
	0600	PO4	Item Physical Details	O	1		
	1900	MAN	Marks and Numbers Information	O	>1		
	2000	DTM	Date/Time Reference	O	10		

	<u>Pos. No.</u>	<u>Seg. ID</u>	<u>Name</u>	<u>Req. Des.</u>	<u>Max.Use</u>	<u>Loop Repeat</u>	<u>Notes and Comments</u>
			LOOP ID - HL			200000	
M	0100	HL	Hierarchical Level - Item	M	1		
	0200	LIN	Item Identification	O	1		
	0300	SN1	Item Detail (Shipment)	O	1		
	0600	PO4	Item Physical Details	O	1		

Summary:

	<u>Pos. No.</u>	<u>Seg. ID</u>	<u>Name</u>	<u>Req. Des.</u>	<u>Max.Use</u>	<u>Loop Repeat</u>	<u>Notes and Comments</u>
	0100	CTT	Transaction Totals	O	1		
M	0200	SE	Transaction Set Trailer	M	1		

Transaction Set Comments

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

Business Example – Standard Carton Structure (Full Truckload)

EDI TRANSMISSION DATA	EXPLANATION
ST*856*0001	856 is the Transaction Set Identifier Code for the Advance Ship Notice 0001 is the Transaction Set Control Number
BSN*00*01140824*20041015*1345*0001	00 is the Transaction Set Purpose Code "00" indicates Original. 01140824 is the Shipment Identification Number . 20041015 is the Document Creation Date . 1345 is the Time . 0001 is the Hierarchical Structure . "0001" indicates "Pick and Pack Structure".
HL*1**S	1 is Hierarchical ID Number . S is the Hierarchical Level Code . "S" indicates "Shipment". This HL is the first HL used, and has no parent to identify.
TD1*CTN25*2****G*45582*LB*1000*CF	CTN25 is Packaging Code . "CTN" indicates "Carton", and "25" indicates "Corrugated or Solid". 2 is the Lading Quantity . G is the Weight Qualifier . "G" indicates "Gross Weight". 45582 is the Weight (Gross) . LB is the Unit or Basis for Measurement Code . "LB" indicates "Pound". 1000 is the Volume (Gross) . CF is the Unit or Basis for Measurement Code . "CF" indicates "Cubic Feet".
TD5*B*2*JBHT*M	B is the Routing Sequence Code . "B" indicates "Origin/Delivery Carrier (Any Mode)". 2 is the Identification Code Qualifier . "2" indicates "Standard Carrier Alpha Code (SCAC)". JBHT is the Identification Code (SCAC) . indicates the carrier JB Hunt. M is the Transportation Method/Type Code . "M" indicates "Motor (Common Carrier)".
TD3*TL*ABCD*07213567*****30394938483234	TL is the Equipment Description Code . "TL" indicates Trailer. ABCD is the Equipment Initial 07213567 is the Equipment Number 30394938483234 is the Seal Number . This is a unique number on seal used to close a shipment.
REF*BM*01140824	BM is the Reference Identification Qualifier . "BM" indicates "Bill of Lading Number". 01140824 is the Bill of Lading Number .
REF*CN*082131	CN is the Reference Identification Qualifier "CN" indicates the Carrier PRO Tracking Number. 082131 is the Reference Identification (Pro Tracking Number)
REF*CR*01082131	CR is the Reference Identification Qualifier "CR" indicates the Customer Reference Number (Wal-Mart Load Number). 01082131 is the Reference Identification (Wal-Mart Load Number) .
DTM*067*20041015*1342	067 is the Date/Time Qualifier . "067" indicates "Current Schedule Delivery". 20041015 is the Date (Current Schedule Delivery) . 1342 is the Time .
DTM*011*20041015	011 is the Date/Time Qualifier "011" indicates the "Date Shipped"

	20041015 is the Date (Shipped)
FOB*CC	CC is the Shipment Method of Payment . "CC" Indicates "Collect". <i>Note: Prepaid Suppliers use the code "PP".</i>
N1*ST*WAL-MART STORES, INC.*UL*0078742035260	ST is the Entity Identifier Code . "ST" indicates "Ship To". WAL-MART STORES, INC. is the Name (Ship To). UL is the Identification Code Qualifier . "UL" indicates "Global Location Number (GLN)". 0078742035260 is the Identification Code (GLN).
N1*SF*SUPPLIER NAME	SF is the Entity Identifier Code (Ship From) SUPPLIER NAME is the Name .
HL*2*1*O	2 is the Hierarchical ID Number . 1 is the Hierarchical Parent ID Number . (Shipment) O is the Hierarchical Level Code . "O" indicates "Order".
PRF*9988776655***20041015	9988776655 the Purchase Order Number . 20041015 is the Date (Purchase Order Date).
REF*IA*211555050	IA is the Reference Identification Qualifier . "IA" indicates "Internal Vendor Number". 211555050 is the Reference Identification (Internal Vendor Number).
REF*DP*00005	DP is the Reference Identification Qualifier . "DP" indicates "Department Number". 00005 is the Reference Identification (Wal-Mart Department Number).
REF*MR*0033	MR is the Reference Identification Qualifier . "MR" indicates "Merchandise Type Code". 0033 is the Reference Identification (Merchandise Type Code).
REF*IV*01140824	IV is the Reference Identification Qualifier . "IV" indicates "Seller's Invoice Number". 01140824 is the Reference Identification (Seller's Invoice Number).
HL*3*2*I	3 is the Hierarchical ID Number . 2 is the Hierarchical Parent ID Number . (Order) I is the Hierarchical Level Code . "I" indicates "Item".
LIN**UP*008815509183*IN*000561459	UP is the Product/Service ID Qualifier . "UP" indicates "U.P.C. Consumer Package Code (1-5-5-1)". 008815509183 is the Product/Service ID . IN is the Product/Service ID Qualifier . "IN" indicates "Buyer's Item Number". 000561459 is the Product/Service ID (Buyer's Item Number).
SN1**9*EA	9 is the Number of Units Shipped . EA is the Unit or Basis for Measurement Code . "EA" indicates "Each".
HL*4*3*P	4 is the Hierarchical ID Number . 3 is the Hierarchical Parent ID Number . (Pack) P is the Hierarchical Level Code . "P" indicates "Pack".
MAN**UC*00123123123123	UC is the Marks and Numbers Qualifier . "UC" indicates "U.P.C. Shipping Container Code (SCC-14)". 00123123123123 is the Marks and Number (SCC-14).
CTT*4	4 is the Number of Line Items (number of HL segments in the document).
SE*27*0001	27 is the Number of Included Segments . 0001 is the Transaction Set Control Number .

Wal-Mart Business Example of an 856 Document – Standard Carton Structure (Less Than Truckload)

EDI TRANSMISSION DATA	EXPLANATION
ST*856*0001	856 is the Transaction Set Identifier Code for the Advance Ship Notice 0001 is the Transaction Set Control Number
BSN*00*01140824*20041015*1345*0001	00 is the Transaction Set Purpose Code . “00”stands for original. 01140824 is the Shipment Identification . 20041015 is the Document Creation Date . 1345 is the Time . 0001 is the Hierarchical Structure Code . “0001” indicates Pick and Pack Structure.
HL*1**S	1 is the Hierarchical ID Number . S is the Hierarchical Level Code . This HL is the first HL used, and has no parent to identify.
TD1*CTN25*2****G*5582*LB	CTN25 is Packaging Code . “CTN” indicates “Carton”, and “25” indicates “Corrugated or Solid”. 2 is the Lading Quantity . G is the Weight Qualifier . “G” indicates Gross Weight. 5582 is the Weight (Gross) . LB is the Unit or Basis for Measurement Code . “LB” indicates “Pound”.
TD5*B*2*YFSY*M	B is the Routing Sequence Code . “B” indicates Origin/Delivery Carrier (Any Mode) 2 is the Identification Code Qualifier . “2” indicates “Standard Carrier Alpha Code (SCAC)”. YFSY is the Identification Code (SCAC) . Indicates the carrier Yellow Freight. M is the Transportation Method/Type Code . “M” indicates “Motor (common carrier)”.
REF*AO*012395	AO is the Reference Identification Qualifier (Appointment Number) this is the receiver’s appointment number 012395 is the Reference Identification (Appointment Number)
REF*BM*01140824	BM is the Reference Identification Qualifier . “BM” indicates “Bill of Lading Number”. 01140824 is the Reference Identification (Bill of Lading Number) .
REF*CN*082131	CN is the Reference Identification Qualifier “CN” indicates the Carrier PRO Tracking Number. 082131 is the Reference Identification (Pro Tracking Number)
DTM*067*20041015*1342	067 is the Date/Time Qualifier . “067” indicates “Current Schedule Delivery”. 20041015 is the Date (Current Schedule Delivery) . 1342 is the Time
FOB*PP	PP is the Shipment Method of Payment . “PP” Indicates “Prepaid (by Seller)”. <i>Note: Collect Suppliers use the code “CC”</i>
N1*ST*WAL-MART STORES, INC.*UL*0078742035260	ST is the Entity Identifier Code . “ST” indicates “Ship To”. WAL-MART STORES, INC. is the Name (Ship To) . UL is the Identification Code Qualifier . “UL” indicates “Global Location Number (GLN)”. 0078742035260 is the Identification Code (GLN) .
N1*SF*SUPPLIER NAME	SF is the Entity Identifier Code (Ship From)

	SUPPLIER NAME is the Name
HL*2*1*O	2 is the Hierarchical ID Number . 1 is the Hierarchical Parent ID Number . (Shipment) O is the Hierarchical Level Code . "O" indicates "Order".
PRF*1111222233***20041015	1111222233 the Purchase Order Number . 20041015 is the Date (Purchase Order Date).
REF*IA*211555101	IA is the Reference Identification Qualifier . "IA" indicates "Internal Vendor Number". 211555101 is the Reference Identification (Internal Vendor Number).
REF*IV*01140824	IV is the Reference Identification Qualifier . "IV" indicates "Seller's Invoice Number". 01140824 is the Reference Identification (Seller's Invoice Number).
REF*DP*00010	DP is the Reference Identification Qualifier . "DP" indicates "Department Number". 00010 is the Reference Identification (Wal-Mart Department Number).
REF*MR*0073	MR is the Reference Identification Qualifier . "MR" indicates "Merchandise Type Code". 0073 is the Reference Identification (Merchandise Type Code).
HL*3*2*I	3 is the Hierarchical ID Number . 2 is the Hierarchical Parent ID Number . (Order) I is the Hierarchical Level Code . "I" indicates "Item".
LIN**UP*008815547321*IN*000556789	UP is the Product/Service ID Qualifier. "UP" indicates "U.P.C. Consumer Package Code (1-5-5-1)". 008815547321 is the Product/Service ID. IN is the Product/Service ID Qualifier. "IN" indicates "Buyer's Item Number". 000556789 is the Product/Service ID (Buyer's Item Number).
SN1**4*EA	4 is the Number of Units Shipped . EA is the Unit or Basis for Measurement Code . "EA" indicates "Each".
HL*4*3*P	4 is the Hierarchical ID Number . 3 is the Hierarchical Parent ID Number . (Pack) P is the Hierarchical Level Code . "P" indicates "Pack".
MAN*UC*00456123456789	UC is the Marks and Numbers Qualifier. "UC" indicates "U.P.C. Shipping Container Code (SCC-14)". 00456123456789 is the Marks and Number (SCC-14).
HL*5*1*O	5 is the Hierarchical ID Number. 1 is the Hierarchical Parent ID Number. (Shipment) O is the Hierarchical Level Code. "O" indicates "Order".
PRF*9988774455***20000410	9988774455 is the Purchase Order Number. 20000410 is the Date (Purchase Order Date).
REF*IA*211555050	IA is the Reference Identification Qualifier. "IA" indicates "Internal Vendor Number". 211555050 is the Reference Identification (Internal Vendor Number).
REF*IV*01140825	IV is the Reference Identification Qualifier. "IV" indicates "Seller's Invoice Number". 01140825 is the Reference Identification (Seller's Invoice Number).

REF*DP*00005	DP is the Reference Identification Qualifier. “DP” indicates “Department Number”. 00005 is the Reference Identification (Wal-Mart Department Number).
REF*MR*0033	MR is the Reference Identification Qualifier. “MR” indicates “Merchandise Type Code”. 0033 is the Reference Identification (Merchandise Type Code).
HL*6*5*I	6 is the Hierarchical ID Number. 5 is the Hierarchical Parent ID Number. (Order) I is the Hierarchical Level Code. “I” indicates “Item”.
LIN**UP*008815509183	UP is the Product/Service ID Qualifier. “UP” indicates “U.P.C. Consumer Package Code (1-5-5-1)”. 008815509183 is the Product/Service ID.
SN1**25*EA	25 is the Number of Units Shipped. EA is the Unit or Basis for Measurement Code. “EA” indicates “Each”.
HL*7*6*P	7 is the Hierarchical ID Number. 6 is the Hierarchical Parent ID Number. (Item) P is the Hierarchical Level Code. “P” indicates “Pack”.
MAN*UC*00987789456123	UC is the Marks and Numbers Qualifier. “UC” indicates “U.P.C. Shipping Container code (SCC-14)”. 00987789456123 is the Marks and Number (SCC-14).
HL*8*5*I	8 is the Hierarchical ID Number. 5 is the Hierarchical Parent ID Number. (Order) I is the Hierarchical Level Code. “I” indicates “Item”.
LIN**UP*008815508216	UP is the Product/Service ID Qualifier. “UP” indicates “U.P.C. Consumer Package Code (1-5-5-1)”. 008815508216 is the Product/Service ID.
SN1**25*EA	25 is the Number of Units Shipped. EA is the Unit or Basis for Measurement Code. “EA” indicates “Each”.
HL*9*8*P	9 is the Hierarchical ID Number. 8 is the Hierarchical Parent ID Number. (Item) P is the Hierarchical Level Code. “P” indicates “Pack”.
MAN*UC*00112233445566	UC is the Marks and Numbers Qualifier. “UC” indicates “U.P.C. Shipping Container Code (SCC-14)”. 00112233445566 is the Marks and Number (SCC-14).
HL*10*5*I	10 is the Hierarchical ID Number. 5 is the Hierarchical Parent ID Number. (Order) I is the Hierarchical Level Code. “I” indicates “Item”.
LIN**UP*008815526845	UP is the Product/Service ID Qualifier. “UP” indicates “U.P.C. Consumer Package Code (1-5-5-1)”. 008815526845 is the Product/Service ID.
SN1**25*EA	25 is the Number of Units Shipped. EA is the Unit or Basis for Measurement Code. “EA” indicates “Each”.
HL*11*10*P	15 is the Hierarchical ID Number. 14 is the Hierarchical Parent ID Number. (Item) P is the Hierarchical Level Code. “P” indicates “Pack”.
MAN*UC*00223344556677	UC is the Marks and Numbers Qualifier. “UC” indicates “U.P.C. Shipping Container Code”. 00223344556677 is the Marks and Number (SCC-14).
CTT*11	11 is the Number of Line Items (number of HL segments in the document).
SE*46*0001	46 is the Number of Included Segments. 0001 is the Transaction Set Control Number.

Wal-Mart Business Example of an 856 Document – Standard Carton Structure (Small Packages)

EDI TRANSMISSION DATA	EXPLANATION
ST*856*0001	856 is the Transaction Set Identifier Code for the Advance Ship Notice 0001 is the Transaction Set Control Number
BSN*00*01140824*20041015*1345*0001	00 is the Transaction Set Purpose Code "00" indicates Original. 01140824 is the Shipment Identification Number . 20041015 is the Document Creation Date . 1345 is the Time . 0001 is the Hierarchical Structure . "0001" indicates "Pick and Pack Structure".
HL*1**S	1 is Hierarchical ID Number . S is the Hierarchical Level Code . "S" indicates "Shipment". This HL is the first HL used, and has no parent to identify.
TD1*****G*46*LB	G is the Weight Qualifier (gross weight) 46 is the Weight (numeric value of the weight) LB is the Unit or Basis for Measurement Code "LB" indicates "Pounds".
TD5*B*2*JBHT*M	B is the Routing Sequence Code . "B" indicates "Origin/Delivery Carrier (Any Mode)". 2 is the Identification Code Qualifier . "2" indicates "Standard Carrier Alpha Code (SCAC)". JBHT is the Identification Code (SCAC). indicates the carrier JB Hunt. M is the Transportation Method/Type Code . "M" indicates "Motor (Common Carrier)".
REF*CN*082131	CN is the Reference Identification Qualifier "CN" indicates the Carrier PRO Tracking Number. 082131 is the Reference Identification (Pro Tracking Number)
DTM*067*20000411*1042	067 is the Date/Time Qualifier . "067" indicates "Current Scheduled Delivery". 20000411 is the Date (Current Schedule Delivery). 1042 is the Time .
DTM*011*20000411	011 is the Date/Time Qualifier . "011" indicates "Date Shipped". 20000411 is the Date (Date Shipped).
FOB*PP	PP is the Shipment Method of Payment . "PP" Indicates "Prepaid (by Seller)". <i>Note: Collect Suppliers use the code "CC".</i>
N1*ST*WAL-MART STORES, INC.*UL*0078742035260	ST is the Entity Identifier Code . "ST" indicates "Ship To". WAL-MART STORES, INC. is the Name (Ship To). UL is the Identification Code Qualifier . "UL" indicates "Global Location Number (GLN)". 0078742035260 is the Identification Code (GLN).
N1*SF*SUPPLIER NAME	SF is the Entity Identifier Code (Ship From) SUPPLIER NAME is the Name .
HL*2*1*O	2 is the Hierarchical ID Number . 1 is the Hierarchical Parent ID Number . (Shipment) O is the Hierarchical Level Code . "O" indicates "Order".
PRF*9988776655***20041015	9988776655 the Purchase Order Number . 20041015 is the Date (Purchase Order Date).
REF*IA*211555050	IA is the Reference Identification Qualifier . "IA" indicates "Internal Vendor Number". 211555050 is the Reference Identification (Internal Vendor

	Number).
REF*DP*00005	DP is the Reference Identification Qualifier . “DP” indicates “Department Number”. 00005 is the Reference Identification (Wal-Mart Department Number).
REF*MR*0033	MR is the Reference Identification Qualifier . “MR” indicates “Merchandise Type Code”. 0033 is the Reference Identification (Merchandise Type Code).
HL*3*2*I	3 is the Hierarchical ID Number . 2 is the Hierarchical Parent ID Number . (Order) I is the Hierarchical Level Code . “I” indicates “Item”.
LIN**UP*008815509183*IN*000561459	UP is the Product/Service ID Qualifier. “UP” indicates “U.P.C. Consumer Package Code (1-5-5-1)”. 008815509183 is the Product/Service ID. IN is the Product/Service ID Qualifier. “IN” indicates “Buyer’s Item Number”. 000561459 is the Product/Service ID (Buyer’s Item Number).
SN1**1*CA	1 is the Number of Units Shipped. CA is the Unit or Basis for Measurement Code. “CA” indicates “Case”.
PO4*5	5 is the Pack value, indicating the number of inner containers in the carton.
HL*4*3*P	4 is the Hierarchical ID Number. 3 is the Hierarchical Parent ID Number. (Item) P is the Hierarchical Level Code. “P” indicates “Pack”.
MAN*UC*00987654123123	UC is the Marks and Numbers Qualifier. “UC” indicates “U.P.C. Shipping Container Code (SCC-14)”. 00987654123123 is the U.P.C. Shipping Container Code (SCC-14).
MAN*CP*881550007125017	CP is the Marks and Numbers Qualifier. “CP” indicates “Carrier-Assigned Package ID Number”. 881550007125017 is the small package shipment, carrier assigned ID number
CTT*6	6 is the Number of Line Items (number of HL segments in the document).
SE*32*0001	32 is the Number of Included Segments. 0001 is the Transaction Set Control Number.

Segment: **ST** Transaction Set Header
Position: 0100
Loop:
Level: Heading
Usage: Mandatory
Max Use: 1
Purpose: To indicate the start of a transaction set and to assign a control number
Syntax Notes:
Semantic Notes:

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

Comments:

Data Element Summary

<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
<u>Des.</u>	<u>Element</u>		
M	ST01	143 Transaction Set Identifier Code Code uniquely identifying a Transaction Set 856 Ship Notice/Manifest	M 1 ID 3/3
M	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 1 AN 4/9
	ST03	1705 <i>Implementation Convention Reference</i> <i>Reference assigned to identify Implementation Convention</i>	O 1 AN 1/35

Segment: **BSN** Beginning Segment for Ship Notice
Position: 0200
Loop:
Level: Heading
Usage: Mandatory
Max Use: 1
Purpose: To transmit identifying numbers, dates, and other basic data relating to the transaction set
Syntax Notes: 1 If BSN07 is present, then BSN06 is required.
Semantic Notes: 1 BSN03 is the date the shipment transaction set is created.
2 BSN04 is the time the shipment transaction set is created.
3 BSN06 is limited to shipment related codes.
Comments: 1 BSN06 and BSN07 differentiate the functionality of use for the transaction set.
Notes: In some implementations, it may be appropriate to omit the unit load level and packaging levels, i.e., tare and pack, from the transaction set. Depending on the retailer's receiving systems, carton identification may not be required. Code 0004 in BSN05 indicates the use of a hierarchical structure that does not include a unit load level or any packaging levels.

Data Element Summary

Ref.	Data Element	Name	Attributes
M	BSN01	353 Transaction Set Purpose Code Code identifying purpose of transaction set 00 Original	M 1 ID 2/2
M	BSN02	396 Shipment Identification A unique control number assigned by the original shipper to identify a specific shipment	M 1 AN 2/30
M	BSN03	373 Date Date expressed as CCYYMMDD where CC represents the first two digits of the calendar year	M 1 DT 8/8
M	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 1 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 This data element is required by Wal-Mart Stores, Inc. 0002 Shipment, Order, Item, Packaging Standard Carton Pack Structure	O 1 ID 4/4
	BSN06	640 <i>Transaction Type Code</i> <i>Code specifying the type of transaction</i>	X 1 ID 2/2
	BSN07	641 <i>Status Reason Code</i> <i>Code indicating the status reason</i>	O 1 ID 3/3

Segment: **HL** Hierarchical Level - Shipment
Position: 0100
Loop: HL Mandatory
Level: Detail
Usage: Mandatory
Max Use: 1
Purpose: To identify dependencies among and the content of hierarchically related groups of data segments

Syntax Notes:

Semantic Notes:

Comments:

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

Notes:

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

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

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

Data Element Summary

Ref.	Data Element	Name	Attributes
M	HL01	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 1 AN 1/12
	HL02	<i>Hierarchical Parent ID Number</i> <i>Identification number of the next higher hierarchical data segment that the data segment being described is subordinate to</i>	O 1 AN 1/12
M	HL03	Hierarchical Level Code Code defining the characteristic of a level in a hierarchical structure S Shipment	M 1 ID 1/2
	HL04	<i>Hierarchical Child Code</i> <i>Code indicating if there are hierarchical child data segments subordinate to the level being described</i>	O 1 ID 1/1

Segment: **TD1** Carrier Details (Quantity and Weight)
Position: 1100
Loop: HL Mandatory
Level: Detail
Usage: Optional
Max Use: 20
Purpose: To specify the transportation details relative to commodity, weight, and quantity
Syntax Notes:

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

Semantic Notes:

Comments:

Notes:

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

Data Element Summary

<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
TD101	103	Packaging Code	O 1 AN 3/5
		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	
		25 Corrugated or Solid	
		71 Not Otherwise Specified	
		76 Paper	
		94 Wood	
		CTN Carton	
		MIX Mixed Container Types	
		More than one type of container is included in a shipment (shipment could consist of 3 pieces that include 1 box, 1 crate, and 1 basket)	
		Can be used only with code 71 in Part 2	
		PLT Pallet	
		SLP Slip Sheet	
		Shipping containers utilizing slip sheets, which are cardboard platforms used to hold product for storage or transportation	
		SRW Shrink Wrap	
		In packaging, a method of securing a unit load by placing a large "bag" of plastic film over the components and applying heat to induce shrinkage and cause the bag to tighten around the contents	
		03 Hard Wood	
		05 Soft Wood	
TD102	80	Lading Quantity	X 1 N0 1/7
		Number of units (pieces) of the lading commodity	
		The number of packages in the shipment as described in TD101	
TD103	23	<i>Commodity Code Qualifier</i>	O 1 ID 1/1
		Code identifying the commodity coding system used for Commodity Code	
TD104	22	<i>Commodity Code</i>	X 1 AN 1/30
		Code describing a commodity or group of commodities	
TD105	79	<i>Lading Description</i>	O 1 AN 1/50
		Description of an item as required for rating and billing purposes	

TD106	187	Weight Qualifier	O	1 ID 1/2
		Code defining the type of weight		
		G Gross Weight		
TD107	81	Weight	X	1 R 1/10
		Numeric value of weight		
TD108	355	Unit or Basis for Measurement Code	X	1 ID 2/2
		Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken		
		KG Kilogram		
		LB Pound		
TD109	183	Volume	X	1 R 1/8
		Value of volumetric measure		
		Gross volume		
TD110	355	Unit or Basis for Measurement Code	X	1 ID 2/2
		Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken		
		CF Cubic Feet		
		CR Cubic Meter		

Segment:	TD5 Carrier Details (Routing Sequence/Transit Time)
Position:	1200
Loop:	HL Mandatory
Level:	Detail
Usage:	Optional
Max Use:	12
Purpose:	To specify the carrier and sequence of routing and provide transit time information
Syntax Notes:	<ol style="list-style-type: none"> 1 At least one of TD502 TD504 TD505 TD506 or TD512 is required. 2 If TD502 is present, then TD503 is required. 3 If TD507 is present, then TD508 is required. 4 If TD510 is present, then TD511 is required. 5 If TD513 is present, then TD512 is required. 6 If TD514 is present, then TD513 is required. 7 If TD515 is present, then TD512 is required.
Semantic Notes:	1 TD515 is the country where the service is to be performed.
Comments:	1 When specifying a routing sequence to be used for the shipment movement in lieu of specifying each carrier within the movement, use TD502 to identify the party responsible for defining the routing sequence, and use TD503 to identify the actual routing sequence, specified by the party identified in TD502.
Notes:	<p>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.</p> <p>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.</p> <p>This segment is required by Wal-Mart Stores, Inc.</p>

Data Element Summary

<u>Ref.</u>	<u>Data</u>	<u>Attributes</u>
<u>Des.</u>	<u>Element</u> <u>Name</u>	<u>Attributes</u>
TD501	133 Routing Sequence Code <i>Code describing the relationship of a carrier to a specific shipment movement</i>	O 1 ID 1/2
	B Origin/Delivery Carrier (Any Mode)	
TD502	66 Identification Code Qualifier <i>Code designating the system/method of code structure used for Identification Code (67)</i>	X 1 ID 1/2
	2 Standard Carrier Alpha Code (SCAC)	
TD503	67 Identification Code <i>Code identifying a party or other code</i>	X 1 AN 2/80
TD504	91 Transportation Method/Type Code <i>Code specifying the method or type of transportation for the shipment</i>	X 1 ID 1/2
	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	<i>Routing</i>		X	1 AN 1/35
		<i>Free-form description of the routing or requested routing for shipment, or the originating carrier's identity</i>			
TD506	368	<i>Shipment/Order Status Code</i>		X	1 ID 2/2
		<i>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</i>			
		CC	Shipment Complete on (Date)		
		CM	Shipment Complete with Additional Quantity		
		CS	Shipment Complete with Substitution		
		PR	Partial Shipment		
		SS	Split Shipment		
TD507	309	<i>Location Qualifier</i>		O	1 ID 1/2
		<i>Code identifying type of location</i>			
		PA	Port of Arrival		
			Port where shipment enters country		
		PB	Port of Discharge		
			Port where shipment is unloaded		
		PE	Port of Entry		
			Port where customs is declared		
TD508	310	<i>Location Identifier</i>		X	1 AN 1/30
		<i>Code which identifies a specific location</i>			
TD509	731	<i>Transit Direction Code</i>		O	1 ID 2/2
		<i>The point of origin and point of direction</i>			
TD510	732	<i>Transit Time Direction Qualifier</i>		O	1 ID 2/2
		<i>Code specifying the value of time used to measure the transit time</i>			
		CD	Calendar Days (Includes weekends and Holidays)		
		HO	Hours		
TD511	733	<i>Transit Time</i>		X	1 R 1/4
		<i>The numeric amount of transit time</i>			
TD512	284	<i>Service Level Code</i>		X	1 ID 2/2
		<i>Code indicating the level of transportation service or the billing service offered by the transportation carrier</i>			
		DS	Door Service		
		ND	Next Day Air		
			Delivery during business day hours of next business day		
		PB	Priority Mail		
			Can consist of any mail matter (including regular First-Class mail) weighing eleven ounces or less and marked Priority Mail for which the mailer chooses to pay the minimum Priority Mail rate for unguaranteed two-day service among major cities and three-day service everywhere else; First-Class mail weighing more than eleven ounces automatically becomes Priority Mail and must be marked as such		
		PI	Priority Mail Insured		
			Fees in addition to the Priority Mail rate for single pieces of Third- or Fourth-Class Mail or Third- or Fourth Class matter mailed at the Priority Mail rate; sealed articles		

must be endorsed "Third-Class Mail Enclosed" or
 "Fourth-Class Mail Enclosed" in addition to the Priority
 Mail endorsement
 Second Day Air
 Delivery during business day hours no later than second
 business day

X	TD513	284	Service Level Code Code indicating the level of transportation service or the billing service offered by the transportation carrier	X	1 ID 2/2
	<i>TD514</i>	<i>284</i>	<i>Service Level Code</i> <i>Code indicating the level of transportation service or the billing service offered by the transportation carrier</i>	<i>O</i>	<i>1 ID 2/2</i>
	<i>TD515</i>	<i>26</i>	<i>Country Code</i> <i>Code identifying the country</i>	<i>O</i>	<i>1 ID 2/3</i>

Segment: **TD3** Carrier Details (Equipment)
Position: 1300
Loop: TD3 Optional
Level: Detail
Usage: Optional
Max Use: 1
Purpose: To specify transportation details relating to the equipment used by the carrier
Syntax Notes:

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

Semantic Notes:

Comments:

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. This segment is required by Wal-Mart Stores, Inc for all truckload shipments.

Data Element Summary

<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
<u>Des.</u>	<u>Element</u>		
TD301	40	Equipment Description Code Code identifying type of equipment used for shipment TL Trailer (not otherwise specified)	X 1 ID 2/2
TD302	206	Equipment Initial Prefix or alphabetic part of an equipment unit's identifying number	O 1 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)	X 1 AN 1/15
<i>TD304</i>	<i>187</i>	<i>Weight Qualifier</i> <i>Code defining the type of weight</i>	<i>O 1 ID 1/2</i>
<i>TD305</i>	<i>81</i>	<i>Weight</i> <i>Numeric value of weight</i>	<i>X 1 R 1/10</i>
<i>TD306</i>	<i>355</i>	<i>Unit or Basis for Measurement Code</i> <i>Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken</i>	<i>X 1 ID 2/2</i>
<i>TD307</i>	<i>102</i>	<i>Ownership Code</i> <i>Code indicating the relationship of equipment to carrier or ownership of equipment</i>	<i>O 1 ID 1/1</i>
<i>TD308</i>	<i>407</i>	<i>Seal Status Code</i> <i>Code indicating condition of door seal upon arrival</i>	<i>O 1 ID 2/2</i>
TD309	225	Seal Number Unique number on seal used to close a shipment	O 1 AN 2/15
<i>TD310</i>	<i>24</i>	<i>Equipment Type</i> <i>Code identifying equipment type</i> Use ISO 6346:1995 code list.	<i>X 1 ID 4/4</i>

Segment: **REF** Reference Information
Position: 1500
Loop: HL Mandatory
Level: Detail
Usage: Optional
Max Use: >1
Purpose: To specify identifying information
Syntax Notes:

- 1 At least one of REF02 or REF03 is required.
- 2 If either C04003 or C04004 is present, then the other is required.
- 3 If either C04005 or C04006 is present, then the other is required.

Semantic Notes:

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

Comments:
Notes:

In some cases, individual shipments with bill of lading may be grouped under a Master Bill of Lading. Under this circumstance, specifying both the bill of lading and the associated Master Bill of Lading Number will facilitate tracking. The segment is required by Wal-Mart Store, Inc.

Data Element Summary

M	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
	REF01	128	Reference Identification Qualifier Code qualifying the Reference Identification BM Bill of Lading Number UCB EAN.UCC Bill of Lading Number (17 Digits)	M 1 ID 2/3
	REF02	127	Reference Identification Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	X 1 AN 1/50
	<i>REF03</i>	<i>352</i>	<i>Description</i> <i>A free-form description to clarify the related data elements and their content</i>	<i>X 1 AN 1/80</i>
	<i>REF04</i>	<i>C040</i>	<i>Reference Identifier</i> <i>To identify one or more reference numbers or identification numbers as specified by the Reference Qualifier</i>	<i>O 1</i>
	<i>C04001</i>	<i>128</i>	<i>Reference Identification Qualifier</i> <i>Code qualifying the Reference Identification</i>	<i>M ID 2/3</i>
	<i>C04002</i>	<i>127</i>	<i>Reference Identification</i> <i>Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier</i>	<i>M AN 1/50</i>
	<i>C04003</i>	<i>128</i>	<i>Reference Identification Qualifier</i> <i>Code qualifying the Reference Identification</i>	<i>X ID 2/3</i>
	<i>C04004</i>	<i>127</i>	<i>Reference Identification</i> <i>Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier</i>	<i>X AN 1/50</i>
	<i>C04005</i>	<i>128</i>	<i>Reference Identification Qualifier</i> <i>Code qualifying the Reference Identification</i>	<i>X ID 2/3</i>
	<i>C04006</i>	<i>127</i>	<i>Reference Identification</i> <i>Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier</i>	<i>X AN 1/50</i>

Segment: **REF** Reference Information
Position: 1500
Loop: HL Mandatory
Level: Detail
Usage: Optional
Max Use: >1
Purpose: To specify identifying information
Syntax Notes:

- 1 At least one of REF02 or REF03 is required.
- 2 If either C04003 or C04004 is present, then the other is required.
- 3 If either C04005 or C04006 is present, then the other is required.

Semantic Notes:

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

Comments:

Data Element Summary

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
M	REF01	128	Reference Identification Qualifier Code qualifying the Reference Identification CN Carrier's Reference Number (PRO/Invoice)	M 1 ID 2/3
	REF02	127	Reference Identification Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	X 1 AN 1/50
	REF03	352	<i>Description</i> <i>A free-form description to clarify the related data elements and their content</i>	X 1 AN 1/80
	REF04	C040	<i>Reference Identifier</i> <i>To identify one or more reference numbers or identification numbers as specified by the Reference Qualifier</i>	O 1
	C04001	128	<i>Reference Identification Qualifier</i> <i>Code qualifying the Reference Identification</i>	M ID 2/3
	C04002	127	<i>Reference Identification</i> <i>Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier</i>	M AN 1/50
	C04003	128	<i>Reference Identification Qualifier</i> <i>Code qualifying the Reference Identification</i>	X ID 2/3
	C04004	127	<i>Reference Identification</i> <i>Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier</i>	X AN 1/50
	C04005	128	<i>Reference Identification Qualifier</i> <i>Code qualifying the Reference Identification</i>	X ID 2/3
	C04006	127	<i>Reference Identification</i> <i>Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier</i>	X AN 1/50

Segment: **REF** Reference Information
Position: 1500
Loop: HL Mandatory
Level: Detail
Usage: Optional
Max Use: >1
Purpose: To specify identifying information
Syntax Notes:

- 1 At least one of REF02 or REF03 is required.
- 2 If either C04003 or C04004 is present, then the other is required.
- 3 If either C04005 or C04006 is present, then the other is required.

Semantic Notes:

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

Comments:

Data Element Summary

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
M	REF01	128	Reference Identification Qualifier Code qualifying the Reference Identification CR Customer Reference Number	M 1 ID 2/3
	REF02	127	Reference Identification Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	X 1 AN 1/50
	REF03	352	<i>Description</i> <i>A free-form description to clarify the related data elements and their content</i>	X 1 AN 1/80
	REF04	C040	<i>Reference Identifier</i> <i>To identify one or more reference numbers or identification numbers as specified by the Reference Qualifier</i>	O 1
	C04001	128	<i>Reference Identification Qualifier</i> <i>Code qualifying the Reference Identification</i>	M ID 2/3
	C04002	127	<i>Reference Identification</i> <i>Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier</i>	M AN 1/50
	C04003	128	<i>Reference Identification Qualifier</i> <i>Code qualifying the Reference Identification</i>	X ID 2/3
	C04004	127	<i>Reference Identification</i> <i>Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier</i>	X AN 1/50
	C04005	128	<i>Reference Identification Qualifier</i> <i>Code qualifying the Reference Identification</i>	X ID 2/3
	C04006	127	<i>Reference Identification</i> <i>Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier</i>	X AN 1/50

Segment: **REF** Reference Information
Position: 1500
Loop: HL Mandatory
Level: Detail
Usage: Optional
Max Use: >1
Purpose: To specify identifying information
Syntax Notes:

- 1 At least one of REF02 or REF03 is required.
- 2 If either C04003 or C04004 is present, then the other is required.
- 3 If either C04005 or C04006 is present, then the other is required.

Semantic Notes:

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

Comments:

Data Element Summary

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
M	REF01	128	Reference Identification Qualifier Code qualifying the Reference Identification AO Appointment Number Receiver's appointment number	M 1 ID 2/3
	REF02	127	Reference Identification Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	X 1 AN 1/50
	REF03	352	<i>Description</i> <i>A free-form description to clarify the related data elements and their content</i>	X 1 AN 1/80
	REF04	C040	<i>Reference Identifier</i> <i>To identify one or more reference numbers or identification numbers as specified by the Reference Qualifier</i>	O 1
	C04001	128	<i>Reference Identification Qualifier</i> <i>Code qualifying the Reference Identification</i>	M ID 2/3
	C04002	127	<i>Reference Identification</i> <i>Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier</i>	M AN 1/50
	C04003	128	<i>Reference Identification Qualifier</i> <i>Code qualifying the Reference Identification</i>	X ID 2/3
	C04004	127	<i>Reference Identification</i> <i>Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier</i>	X AN 1/50
	C04005	128	<i>Reference Identification Qualifier</i> <i>Code qualifying the Reference Identification</i>	X ID 2/3
	C04006	127	<i>Reference Identification</i> <i>Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier</i>	X AN 1/50

Segment:	MAN Marks and Numbers Information
Position:	1900
Loop:	HL Mandatory
Level:	Detail
Usage:	Optional
Max Use:	>1
Purpose:	To indicate identifying marks and numbers for shipping containers
Syntax Notes:	<ol style="list-style-type: none"> 1 If either MAN04 or MAN05 is present, then the other is required. 2 If MAN06 is present, then MAN05 is required.
Semantic Notes:	<ol style="list-style-type: none"> 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:	<ol style="list-style-type: none"> 1 When MAN01 contains code "UC" (U.P.C. Shipping Container Code) and MAN05/MAN06 contain a range of ID numbers, MAN03 is not used. The reason for this is that the U.P.C. Shipping Container code is the same on every carton that is represented in the range in MAN05/MAN06. 2 MAN03 and/or MAN06 are only used when sending a range(s) of ID numbers. When both MAN02/MAN03 and MAN05/MAN06 are used to send ranges of ID numbers, the integrity of the two ID numbers must be maintained.
Notes:	This segment, at the 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

<u>Ref.</u>	<u>Data</u>	<u>Element</u>	<u>Name</u>	<u>Attributes</u>
M	MAN01	88	Marks and Numbers Qualifier Code specifying the application or source of Marks and Numbers (87) GM EAN.UCC Serial Shipping Container Code (SSCC) 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.	M 1 ID 1/2
M	MAN02	87	Marks and Numbers Marks and numbers used to identify a shipment or parts of a shipment	M 1 AN 1/48
	MAN03	87	<i>Marks and Numbers</i> <i>Marks and numbers used to identify a shipment or parts of a shipment</i>	O 1 AN 1/48
	MAN04	88	<i>Marks and Numbers Qualifier</i> <i>Code specifying the application or source of Marks and Numbers (87)</i>	X 1 ID 1/2
	MAN05	87	<i>Marks and Numbers</i> <i>Marks and numbers used to identify a shipment or parts of a shipment</i>	X 1 AN 1/48
	MAN06	87	<i>Marks and Numbers</i> <i>Marks and numbers used to identify a shipment or parts of a shipment</i>	O 1 AN 1/48

Segment: **DTM** Date/Time Reference
Position: 2000
Loop: HL Mandatory
Level: Detail
Usage: Optional
Max Use: 10
Purpose: To specify pertinent dates and times
Syntax Notes:

- 1 At least one of DTM02 DTM03 or DTM05 is required.
- 2 If DTM04 is present, then DTM03 is required.
- 3 If either DTM05 or DTM06 is present, then the other is required.

Semantic Notes:

Comments:

Notes:

Wal-Mart requires the scheduled delivery date and time only when the shipper schedules an appointment. The scheduled delivery date and time corresponds to the appointment number sent in the REF segment with an AO qualifier.

Data Element Summary

Ref.	Data Element	Name	Attributes
M	DTM01	374 Date/Time Qualifier Code specifying type of date or time, or both date and time 067 Current Schedule Delivery	M 1 ID 3/3
	DTM02	373 Date Date expressed as CCYYMMDD where CC represents the first two digits of the calendar year	X 1 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)	X 1 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	O 1 ID 2/2
	DTM05	1250 Date Time Period Format Qualifier Code indicating the date format, time format, or date and time format	X 1 ID 2/3
	DTM06	1251 Date Time Period Expression of a date, a time, or range of dates, times or dates and times	X 1 AN 1/35

Segment: **DTM** Date/Time Reference
Position: 2000
Loop: HL Mandatory
Level: Detail
Usage: Optional
Max Use: 10
Purpose: To specify pertinent dates and times
Syntax Notes:

- 1 At least one of DTM02 DTM03 or DTM05 is required.
- 2 If DTM04 is present, then DTM03 is required.
- 3 If either DTM05 or DTM06 is present, then the other is required.

Semantic Notes:
Comments:

Notes: Wal-Mart requires the scheduled delivery date and time only when the shipper schedules an appointment. The scheduled delivery date and time corresponds to the appointment number sent in the REF segment with an AO qualifier.

Data Element Summary

Ref.	Data	Name	Attributes
Des.	Element		
M	DTM01	374 Date/Time Qualifier Code specifying type of date or time, or both date and time 011 Shipped 068 Current Schedule Ship	M 1 ID 3/3
	DTM02	373 Date Date expressed as CCYYMMDD where CC represents the first two digits of the calendar year	X 1 DT 8/8
	DTM03	337 Time <i>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)</i>	X 1 TM 4/8
	DTM04	623 Time Code <i>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</i>	O 1 ID 2/2
	DTM05	1250 Date Time Period Format Qualifier <i>Code indicating the date format, time format, or date and time format</i>	X 1 ID 2/3
	DTM06	1251 Date Time Period <i>Expression of a date, a time, or range of dates, times or dates and times</i>	X 1 AN 1/35

Segment: **FOB** F.O.B. Related Instructions

Position: 2100

Loop: HL Mandatory

Level: Detail

Usage: Optional

Max Use: 1

Purpose: To specify transportation instructions relating to shipment

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

2 If FOB04 is present, then FOB05 is required.

3 If FOB07 is present, then FOB06 is required.

4 If FOB08 is present, then FOB09 is required.

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

2 FOB02 is the code specifying transportation responsibility location.

3 FOB06 is the code specifying the title passage location.

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

Comments:

Notes: This segment is required by Wal-Mart Stores, Inc.

Data Element Summary

Ref. Des.	Data Element	Name	Attributes	
			M	ID
M	FOB01	146 Shipment Method of Payment	M	1 ID 2/2
		Code identifying payment terms for transportation charges		
		CC Collect		
		PP Prepaid (by Seller)		
	FOB02	309 Location Qualifier	X	1 ID 1/2
		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		
		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)		
		OV On Vessel (Free On Board [FOB] point)		
		SP State/Province		
		TL Terminal Cargo Location		
	FOB03	352 Description	O	1 AN 1/80
		A free-form description to clarify the related data elements and their content		
		Free-form name of transportation responsibility location		
	FOB04	334 Transportation Terms Qualifier Code	O	1 ID 2/2
		Code identifying the source of the transportation terms		
		01 Incoterms		
	FOB05	335 Transportation Terms Code	X	1 ID 3/3
		Code identifying the trade terms which apply to the shipment transportation responsibility		
	FOB06	309 Location Qualifier	X	1 ID 1/2

		<i>Code identifying type of location</i>			
<i>FOB07</i>	<i>352</i>	<i>Description</i>	<i>O</i>	<i>1</i>	<i>AN 1/80</i>
		<i>A free-form description to clarify the related data elements and their content</i>			
		<i>Free-form name of title passage location</i>			
<i>FOB08</i>	<i>54</i>	<i>Risk of Loss Code</i>	<i>O</i>	<i>1</i>	<i>ID 2/2</i>
		<i>Code specifying where responsibility for risk of loss passes</i>			
<i>FOB09</i>	<i>352</i>	<i>Description</i>	<i>X</i>	<i>1</i>	<i>AN 1/80</i>
		<i>A free-form description to clarify the related data elements and their content</i>			

Segment: **N1 Party Identification**
Position: 2200
Loop: N1 Optional
Level: Detail
Usage: Optional
Max Use: 1
Purpose: To identify a party by type of organization, name, and code
Syntax Notes: 1 At least one of N102 or N103 is required.
 2 If either N103 or N104 is present, then the other is required.
Semantic Notes:
Comments: 1 This segment, used alone, provides the most efficient method of providing organizational identification. To obtain this efficiency the "ID Code" (N104) must provide a key to the table maintained by the transaction processing party.
 2 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. Wal-Mart uses the data in this segment loop to determine where to route the Ship Notice data so that receiving may be accomplished in an efficient manner. This is the "ship-to" of the entire shipment.

For a cross-dock shipment, this will define the warehouse or distribution center the goods are being shipped to. The N1*BY in the order hierarchical level will contain the store breakout. When defining more than one store, the order level, containing its own unique pack and item levels, must be repeated for each store within the crossdock order. This segment is required by Wal-Mart Stores, Inc.

Data Element Summary

Ref.	Data	Attributes				
<u>Des.</u>	<u>Element</u> <u>Name</u>					
M	N101	98	Entity Identifier Code	M	1	ID 2/3
			Code identifying an organizational entity, a physical location, property or an individual			
		ST	Ship To			
	N102	93	Name	X	1	AN 1/60
			Free-form name			
	N103	66	Identification Code Qualifier	X	1	ID 1/2
			Code designating the system/method of code structure used for Identification Code (67)			
		UL	Global Location Number (GLN)			
			A globally unique 13 digit code for the identification of a legal, functional or physical location within the Uniform Code Council (UCC) and International Article Number Association (EAN) numbering system			
			This is the 13-digit Global Location Number (GLN).			
	N104	67	Identification Code	X	1	AN 2/80
			Code identifying a party or other code			
			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.			
	N105	706	Entity Relationship Code	O	1	ID 2/2

N106 98 *Code describing entity relationship*
Entity Identifier Code *O 1 ID 2/3*
Code identifying an organizational entity, a physical location, property or an individual

Segment: **N1** Party Identification
Position: 2200
Loop: N1 Optional
Level: Detail
Usage: Optional
Max Use: 1
Purpose: To identify a party by type of organization, name, and code
Syntax Notes: 1 At least one of N102 or N103 is required.
 2 If either N103 or N104 is present, then the other is required.
Semantic Notes:
Comments: 1 This segment, used alone, provides the most efficient method of providing organizational identification. To obtain this efficiency the "ID Code" (N104) must provide a key to the table maintained by the transaction processing party.
 2 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. Wal-Mart uses the data in this segment loop to determine where to route the Ship Notice data so that receiving may be accomplished in an efficient manner. This is the "ship-to" of the entire shipment.

For a cross-dock shipment, this will define the warehouse or distribution center the goods are being shipped to. The N1*BY in the order hierarchical level will contain the store breakout. When defining more than one store, the order level, containing its own unique pack and item levels, must be repeated for each store within the crossdock order. This segment is required by Wal-Mart Stores, Inc.

Data Element Summary

Ref.	Data		Attributes
<u>Des.</u>	<u>Element</u>	<u>Name</u>	
M	N101	98 Entity Identifier Code Code identifying an organizational entity, a physical location, property or an individual SF Ship From	M 1 ID 2/3
	N102	93 Name Free-form name	X 1 AN 1/60
	N103	66 Identification Code Qualifier Code designating the system/method of code structure used for Identification Code (67) UL Global Location Number (GLN) A globally unique 13 digit code for the identification of a legal, functional or physical location within the Uniform Code Council (UCC) and International Article Number Association (EAN) numbering system This is the 13-digit Global Location Number (GLN).	X 1 ID 1/2
	N104	67 Identification Code Code identifying a party or other code	X 1 AN 2/80
	N105	706 Entity Relationship Code Code describing entity relationship	O 1 ID 2/2
	N106	98 Entity Identifier Code Code identifying an organizational entity, a physical location, property or an individual	O 1 ID 2/3

Segment: **HL** Hierarchical Level - Order
Position: 0100
Loop: HL Mandatory
Level: Detail
Usage: Mandatory
Max Use: 1
Purpose: To identify dependencies among and the content of hierarchically related groups of data segments

Syntax Notes:
Semantic Notes:

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

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

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

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

Data Element Summary

Ref.	Data Element	Name	Attributes
M	HL01	Hierarchical ID Number A unique number assigned by the sender to identify a particular data segment in a hierarchical structure	M 1 AN 1/12
	HL02	Hierarchical Parent ID Number Identification number of the next higher hierarchical data segment that the data segment being described is subordinate to This data element will contain the value of the HL01 in the parent shipment level HL segment, as appropriate to the transaction set structure.	O 1 AN 1/12
M	HL03	Hierarchical Level Code Code defining the characteristic of a level in a hierarchical structure	M 1 ID 1/2
	HL04	Hierarchical Child Code Code indicating if there are hierarchical child data segments subordinate to the level being described	O 1 ID 1/1

Segment: **PRF** Purchase Order Reference
Position: 0500
Loop: HL Mandatory
Level: Detail
Usage: Optional
Max Use: 1
Purpose: To provide reference to a specific purchase order
Syntax Notes:
Semantic Notes: 1 PRF04 is the date assigned by the purchaser to purchase order.
Comments:

Notes: Please note that the Max Usage of this segment is 1. Only a single PO Number may be communicated within an Order level-HL segment loop. If you have more than one PO in the shipment then you will have one Order level HL segment loop for each PO. This segment is required by Wal-Mart Stores, Inc.

Data Element Summary

Ref. Des.	Data Element	Name	Attributes
M PRF01	324	Purchase Order Number Identifying number for Purchase Order assigned by the orderer/purchaser Retailer's original purchase order number	M 1 AN 1/22
PRF02	328	<i>Release Number</i> 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	<i>O 1 AN 1/30</i>
PRF03	327	<i>Change Order Sequence Number</i> Number assigned by the orderer identifying a specific change or revision to a previously transmitted transaction set	<i>O 1 AN 1/8</i>
PRF04	373	Date Date expressed as CCYYMMDD where CC represents the first two digits of the calendar year Retailer's original purchase order date This element is required by Wal-Mart Stores, Inc.	O 1 DT 8/8
PRF05	350	<i>Assigned Identification</i> 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	<i>O 1 AN 1/20</i>
PRF06	367	<i>Contract Number</i> Contract number	<i>O 1 AN 1/30</i>
PRF07	92	<i>Purchase Order Type Code</i> Code specifying the type of Purchase Order	<i>O 1 ID 2/2</i>

Segment: **REF** Reference Information
Position: 1500
Loop: HL Mandatory
Level: Detail
Usage: Optional
Max Use: >1
Purpose: To specify identifying information
Syntax Notes:

- 1 At least one of REF02 or REF03 is required.
- 2 If either C04003 or C04004 is present, then the other is required.
- 3 If either C04005 or C04006 is present, then the other is required.

Semantic Notes:

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

Comments:
Notes: This segment is required by Wal-Mart Stores, Inc.

Data Element Summary

Ref.	Data	Attributes	
<u>Des.</u>	<u>Element</u>	<u>Name</u>	<u>Attributes</u>
M	REF01	128	M 1 ID 2/3
		Reference Identification Qualifier	
		Code qualifying the Reference Identification	
		IA Internal Vendor Number	
		Identification number assigned to the vendor, by the retailer, for use within the retailer's system	
	REF02	127	X 1 AN 1/50
		Reference Identification	
		Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	
		This is the Wal-Mart assigned nine-digit internal vendor number.	
	REF03	352	X 1 AN 1/80
		<i>Description</i>	
		<i>A free-form description to clarify the related data elements and their content</i>	
	REF04	C040	O 1
		<i>Reference Identifier</i>	
		<i>To identify one or more reference numbers or identification numbers as specified by the Reference Qualifier</i>	
	C04001	128	M ID 2/3
		<i>Reference Identification Qualifier</i>	
		<i>Code qualifying the Reference Identification</i>	
	C04002	127	M AN 1/50
		<i>Reference Identification</i>	
		<i>Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier</i>	
	C04003	128	X ID 2/3
		<i>Reference Identification Qualifier</i>	
		<i>Code qualifying the Reference Identification</i>	
	C04004	127	X AN 1/50
		<i>Reference Identification</i>	
		<i>Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier</i>	
	C04005	128	X ID 2/3
		<i>Reference Identification Qualifier</i>	
		<i>Code qualifying the Reference Identification</i>	
	C04006	127	X AN 1/50
		<i>Reference Identification</i>	
		<i>Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier</i>	

Segment: **REF** Reference Information
Position: 1500
Loop: HL Mandatory
Level: Detail
Usage: Optional
Max Use: >1
Purpose: To specify identifying information
Syntax Notes:

- 1 At least one of REF02 or REF03 is required.
- 2 If either C04003 or C04004 is present, then the other is required.
- 3 If either C04005 or C04006 is present, then the other is required.

Semantic Notes:

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

Comments:
Notes: This segment is required for all store shipments.

Data Element Summary

Ref.	Data	Attributes	
<u>Des.</u>	<u>Element</u>	<u>Name</u>	<u>Attributes</u>
M	REF01	128	M 1 ID 2/3
		Reference Identification Qualifier Code qualifying the Reference Identification IV Seller's Invoice Number	
	REF02	127	X 1 AN 1/50
		Reference Identification Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	
	REF03	352	X 1 AN 1/80
		<i>Description</i> <i>A free-form description to clarify the related data elements and their content</i>	
	REF04	C040	O 1
		<i>Reference Identifier</i> <i>To identify one or more reference numbers or identification numbers as specified by the Reference Qualifier</i>	
	C04001	128	M ID 2/3
		<i>Reference Identification Qualifier</i> <i>Code qualifying the Reference Identification</i>	
	C04002	127	M AN 1/50
		<i>Reference Identification</i> <i>Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier</i>	
	C04003	128	X ID 2/3
		<i>Reference Identification Qualifier</i> <i>Code qualifying the Reference Identification</i>	
	C04004	127	X AN 1/50
		<i>Reference Identification</i> <i>Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier</i>	
	C04005	128	X ID 2/3
		<i>Reference Identification Qualifier</i> <i>Code qualifying the Reference Identification</i>	
	C04006	127	X AN 1/50
		<i>Reference Identification</i> <i>Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier</i>	

Segment: REF Reference Information
Position: 1500
Loop: HL Mandatory
Level: Detail
Usage: Optional
Max Use: >1
Purpose: To specify identifying information
Syntax Notes:

- 1 At least one of REF02 or REF03 is required.
- 2 If either C04003 or C04004 is present, then the other is required.
- 3 If either C04005 or C04006 is present, then the other is required.

Semantic Notes:

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

Comments:

Data Element Summary

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
M	REF01	128	Reference Identification Qualifier Code qualifying the Reference Identification DP Department Number	M 1 ID 2/3
	REF02	127	Reference Identification Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier This is the Wal-Mart Department Number.	X 1 AN 1/50
	REF03	352	<i>Description</i> A free-form description to clarify the related data elements and their content	X 1 AN 1/80
	REF04	C040	<i>Reference Identifier</i> To identify one or more reference numbers or identification numbers as specified by the Reference Qualifier	O 1
	C04001	128	<i>Reference Identification Qualifier</i> Code qualifying the Reference Identification	M ID 2/3
	C04002	127	<i>Reference Identification</i> Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	M AN 1/50
	C04003	128	<i>Reference Identification Qualifier</i> Code qualifying the Reference Identification	X ID 2/3
	C04004	127	<i>Reference Identification</i> Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	X AN 1/50
	C04005	128	<i>Reference Identification Qualifier</i> Code qualifying the Reference Identification	X ID 2/3
	C04006	127	<i>Reference Identification</i> Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	X AN 1/50

Segment: **REF** Reference Information
Position: 1500
Loop: HL Mandatory
Level: Detail
Usage: Optional
Max Use: >1
Purpose: To specify identifying information
Syntax Notes:

- 1 At least one of REF02 or REF03 is required.
- 2 If either C04003 or C04004 is present, then the other is required.
- 3 If either C04005 or C04006 is present, then the other is required.

Semantic Notes:

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

Comments:

Data Element Summary

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
M	REF01	128	Reference Identification Qualifier Code qualifying the Reference Identification MR Merchandise Type Code	M 1 ID 2/3
	REF02	127	Reference Identification Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier This is the Wal-Mart Purchase Order Type.	X 1 AN 1/50
	REF03	352	<i>Description</i> A free-form description to clarify the related data elements and their content	X 1 AN 1/80
	REF04	C040	<i>Reference Identifier</i> To identify one or more reference numbers or identification numbers as specified by the Reference Qualifier	O 1
	C04001	128	<i>Reference Identification Qualifier</i> Code qualifying the Reference Identification	M ID 2/3
	C04002	127	<i>Reference Identification</i> Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	M AN 1/50
	C04003	128	<i>Reference Identification Qualifier</i> Code qualifying the Reference Identification	X ID 2/3
	C04004	127	<i>Reference Identification</i> Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	X AN 1/50
	C04005	128	<i>Reference Identification Qualifier</i> Code qualifying the Reference Identification	X ID 2/3
	C04006	127	<i>Reference Identification</i> Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	X AN 1/50

Segment: **HL** Hierarchical Level - Item
Position: 0100
Loop: HL Mandatory
Level: Detail
Usage: Mandatory
Max Use: 1
Purpose: To identify dependencies among and the content of hierarchically related groups of data segments

Syntax Notes:
Semantic Notes:

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

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

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

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

Data Element Summary

Ref.	Data Element	Name	Attributes
M	HL01	Hierarchical ID Number A unique number assigned by the sender to identify a particular data segment in a hierarchical structure	M 1 AN 1/12
	HL02	Hierarchical Parent ID Number Identification number of the next higher hierarchical data segment that the data segment being described is subordinate to This data element will contain the value of the HL01 in the tare level HL segment.	O 1 AN 1/12
M	HL03	Hierarchical Level Code Code defining the characteristic of a level in a hierarchical structure I Item	M 1 ID 1/2
	HL04	Hierarchical Child Code Code indicating if there are hierarchical child data segments subordinate to the level being described	O 1 ID 1/1

Segment: **LIN** Item Identification

Position: 0200

Loop: HL Mandatory

Level: Detail

Usage: Optional

Max Use: 1

Purpose: To specify basic item identification data

Syntax Notes:

- 1 If either LIN04 or LIN05 is present, then the other is required.
- 2 If either LIN06 or LIN07 is present, then the other is required.
- 3 If either LIN08 or LIN09 is present, then the other is required.
- 4 If either LIN10 or LIN11 is present, then the other is required.
- 5 If either LIN12 or LIN13 is present, then the other is required.
- 6 If either LIN14 or LIN15 is present, then the other is required.
- 7 If either LIN16 or LIN17 is present, then the other is required.
- 8 If either LIN18 or LIN19 is present, then the other is required.
- 9 If either LIN20 or LIN21 is present, then the other is required.
- 10 If either LIN22 or LIN23 is present, then the other is required.
- 11 If either LIN24 or LIN25 is present, then the other is required.
- 12 If either LIN26 or LIN27 is present, then the other is required.
- 13 If either LIN28 or LIN29 is present, then the other is required.
- 14 If either LIN30 or LIN31 is present, then the other is required.

Semantic Notes:

- 1 LIN01 is the line item identification

Comments:

- 1 See the Data Dictionary for a complete list of IDs.
- 2 LIN02 through LIN31 provide for fifteen different product/service IDs for each item.
For example: Case, Color, Drawing No., U.P.C. No., ISBN No., Model No., or SKU.

Notes:

The codes listed for LIN02 apply to every occurrence of Data Element 235 in the LIN segment.
This segment is required by Wal-Mart Stores, Inc.

Please note that the qualifying values entered in LIN02/04/06 may be transmitted in any order. The U.P.C./ EAN is the only required item identification.

Data Element Summary

Ref.	Data	Attributes	
<u>Des.</u>	<u>Element</u> <u>Name</u>		
LIN01	350 <i>Assigned Identification</i> <i>Alphanumeric characters assigned for differentiation within a transaction set</i>	O	1 AN 1/20
M	LIN02 235 Product/Service ID Qualifier Code identifying the type/source of the descriptive number used in Product/Service ID (234)	M	1 ID 2/2
	EN EAN/UCC - 13 Data structure for the 13 digit EAN.UCC (EAN International.Uniform Code Council) Global Trade Identification Number (GTIN)		
	UP UCC - 12 Data structure for the 12 digit EAN.UCC (EAN International.Uniform Code Council) Global Trade Identification Number (GTIN). Also known as the Universal Product Code (U.P.C.)		
M	LIN03 234 Product/Service ID Identifying number for a product or service	M	1 AN 1/48
	LIN04 235 Product/Service ID Qualifier Code identifying the type/source of the descriptive number used in Product/Service ID (234)	X	1 ID 2/2
	IN Buyer's Item Number		
	LIN05 234 Product/Service ID Identifying number for a product or service	X	1 AN 1/48
	LIN06 235 Product/Service ID Qualifier	X	1 ID 2/2

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

VN Vendor's (Seller's) Item Number

LIN07	234	Product/Service ID	X	1 AN 1/48
		Identifying number for a product or service		
<i>LIN08</i>	<i>235</i>	<i>Product/Service ID Qualifier</i>	<i>X</i>	<i>1 ID 2/2</i>
		<i>Code identifying the type/source of the descriptive number used in Product/Service ID (234)</i>		
<i>LIN09</i>	<i>234</i>	<i>Product/Service ID</i>	<i>X</i>	<i>1 AN 1/48</i>
		<i>Identifying number for a product or service</i>		
<i>LIN10</i>	<i>235</i>	<i>Product/Service ID Qualifier</i>	<i>X</i>	<i>1 ID 2/2</i>
		<i>Code identifying the type/source of the descriptive number used in Product/Service ID (234)</i>		
<i>LIN11</i>	<i>234</i>	<i>Product/Service ID</i>	<i>X</i>	<i>1 AN 1/48</i>
		<i>Identifying number for a product or service</i>		
<i>LIN12</i>	<i>235</i>	<i>Product/Service ID Qualifier</i>	<i>X</i>	<i>1 ID 2/2</i>
		<i>Code identifying the type/source of the descriptive number used in Product/Service ID (234)</i>		
<i>LIN13</i>	<i>234</i>	<i>Product/Service ID</i>	<i>X</i>	<i>1 AN 1/48</i>
		<i>Identifying number for a product or service</i>		
<i>LIN14</i>	<i>235</i>	<i>Product/Service ID Qualifier</i>	<i>X</i>	<i>1 ID 2/2</i>
		<i>Code identifying the type/source of the descriptive number used in Product/Service ID (234)</i>		
<i>LIN15</i>	<i>234</i>	<i>Product/Service ID</i>	<i>X</i>	<i>1 AN 1/48</i>
		<i>Identifying number for a product or service</i>		
<i>LIN16</i>	<i>235</i>	<i>Product/Service ID Qualifier</i>	<i>X</i>	<i>1 ID 2/2</i>
		<i>Code identifying the type/source of the descriptive number used in Product/Service ID (234)</i>		
<i>LIN17</i>	<i>234</i>	<i>Product/Service ID</i>	<i>X</i>	<i>1 AN 1/48</i>
		<i>Identifying number for a product or service</i>		
<i>LIN18</i>	<i>235</i>	<i>Product/Service ID Qualifier</i>	<i>X</i>	<i>1 ID 2/2</i>
		<i>Code identifying the type/source of the descriptive number used in Product/Service ID (234)</i>		
<i>LIN19</i>	<i>234</i>	<i>Product/Service ID</i>	<i>X</i>	<i>1 AN 1/48</i>
		<i>Identifying number for a product or service</i>		
<i>LIN20</i>	<i>235</i>	<i>Product/Service ID Qualifier</i>	<i>X</i>	<i>1 ID 2/2</i>
		<i>Code identifying the type/source of the descriptive number used in Product/Service ID (234)</i>		
<i>LIN21</i>	<i>234</i>	<i>Product/Service ID</i>	<i>X</i>	<i>1 AN 1/48</i>
		<i>Identifying number for a product or service</i>		
<i>LIN22</i>	<i>235</i>	<i>Product/Service ID Qualifier</i>	<i>X</i>	<i>1 ID 2/2</i>
		<i>Code identifying the type/source of the descriptive number used in Product/Service ID (234)</i>		
<i>LIN23</i>	<i>234</i>	<i>Product/Service ID</i>	<i>X</i>	<i>1 AN 1/48</i>
		<i>Identifying number for a product or service</i>		
<i>LIN24</i>	<i>235</i>	<i>Product/Service ID Qualifier</i>	<i>X</i>	<i>1 ID 2/2</i>
		<i>Code identifying the type/source of the descriptive number used in Product/Service ID (234)</i>		
<i>LIN25</i>	<i>234</i>	<i>Product/Service ID</i>	<i>X</i>	<i>1 AN 1/48</i>
		<i>Identifying number for a product or service</i>		
<i>LIN26</i>	<i>235</i>	<i>Product/Service ID Qualifier</i>	<i>X</i>	<i>1 ID 2/2</i>
		<i>Code identifying the type/source of the descriptive number used in Product/Service ID (234)</i>		
<i>LIN27</i>	<i>234</i>	<i>Product/Service ID</i>	<i>X</i>	<i>1 AN 1/48</i>
		<i>Identifying number for a product or service</i>		

LIN28	235	Product/Service ID Qualifier Code identifying the type/source of the descriptive number used in Product/Service ID (234)	X	1	ID 2/2
LIN29	234	Product/Service ID Identifying number for a product or service	X	1	AN 1/48
LIN30	235	Product/Service ID Qualifier Code identifying the type/source of the descriptive number used in Product/Service ID (234)	X	1	ID 2/2
LIN31	234	Product/Service ID Identifying number for a product or service	X	1	AN 1/48

Segment: **SN1** Item Detail (Shipment)
Position: 0300
Loop: HL Mandatory
Level: Detail
Usage: Optional
Max Use: 1
Purpose: To specify line-item detail relative to shipment
Syntax Notes: 1 If either SN105 or SN106 is present, then the other is required.
Semantic Notes: 1 SN101 is the ship notice line-item identification.
 2 SN105 is quantity ordered.
Comments: 1 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.
 This segment is required by Wal-Mart Stores, Inc.
 If SN103 contains "CA" - Cases, then the PO4 segment is required.

Data Element Summary

Ref.	Data	Data Element Summary		Attributes
<u>Des.</u>	<u>Element</u>	<u>Name</u>		
SN101	350	Assigned Identification		O 1 AN 1/20
		<i>Alphanumeric characters assigned for differentiation within a transaction set</i>		
M	SN102	382 Number of Units Shipped		M 1 R 1/10
		Numeric value of units shipped in manufacturer's shipping units for a line item or transaction set		
M	SN103	355 Unit or Basis for Measurement Code		M 1 ID 2/2
		Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken		
		CA	Case	
		EA	Each	
SN104	646	Quantity Shipped to Date		O 1 R 1/15
		<i>Number of units shipped to date</i>		
SN105	380	Quantity		X 1 R 1/15
		<i>Numeric value of quantity</i>		
SN106	355	Unit or Basis for Measurement Code		X 1 ID 2/2
		Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken		
SN107	728	Returnable Container Load Make-Up Code		O 1 ID 1/2
		<i>Code identifying the load make-up of the returnable containers in the shipment</i>		
SN108	668	Line Item Status Code		O 1 ID 2/2
		<i>Code specifying the action taken by the seller on a line item requested by the buyer</i>		

Segment:	PO4 Item Physical Details
Position:	0600
Loop:	HL Mandatory
Level:	Detail
Usage:	Optional
Max Use:	1
Purpose:	To specify the physical qualities, packaging, weights, and dimensions relating to the item
Syntax Notes:	<ol style="list-style-type: none"> 1 If either PO402 or PO403 is present, then the other is required. 2 If PO405 is present, then PO406 is required. 3 If either PO406 or PO407 is present, then the other is required. 4 If either PO408 or PO409 is present, then the other is required. 5 If PO410 is present, then PO413 is required. 6 If PO411 is present, then PO413 is required. 7 If PO412 is present, then PO413 is required. 8 If PO413 is present, then at least one of PO410 PO411 or PO412 is required. 9 If PO417 is present, then PO416 is required. 10 If PO418 is present, then PO404 is required.
Semantic Notes:	<ol style="list-style-type: none"> 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:	<ol style="list-style-type: none"> 1 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". 2 PO413 defines the unit of measure for PO410, PO411, and PO412.
Notes:	<p>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.</p> <p>This segment is required if the unit of measure in the SN103 is "CA"</p>

Data Element Summary

Ref.	Data	Name	Attributes
<u>Des.</u>	<u>Element</u>	<u>Pack</u>	<u>O</u> <u>1</u> <u>N0</u> <u>1/6</u>
PO401	356	Pack	O 1 N0 1/6
		The number of inner containers, or number of eaches if there are no inner containers, per outer container	
PO402	357	Size	X 1 R 1/8
		Size of supplier units in pack	
PO403	355	Unit or Basis for Measurement Code	X 1 ID 2/2
		Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken	
PO404	103	Packaging Code	X 1 AN 3/5
		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	
PO405	187	Weight Qualifier	O 1 ID 1/2
		Code defining the type of weight	
PO406	384	Gross Weight per Pack	X 1 R 1/9
		Numeric value of gross weight per pack	

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	X	1	ID 2/2
PO408	385	Gross Volume per Pack Numeric value of gross volume per pack	X	1	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	X	1	ID 2/2
PO410	82	Length Largest horizontal dimension of an object measured when the object is in the upright position	X	1	R 1/8
PO411	189	Width Shorter measurement of the two horizontal dimensions measured with the object in the upright position	X	1	R 1/8
PO412	65	Height Vertical dimension of an object measured when the object is in the upright position	X	1	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	X	1	ID 2/2
PO414	810	Inner Pack The number of eaches per inner container	O	1	N0 1/6
PO415	752	Surface/Layer/Position Code Code indicating the product surface, layer or position that is being described	O	1	ID 2/2
PO416	350	Assigned Identification Alphanumeric characters assigned for differentiation within a transaction set	X	1	AN 1/20
PO417	350	Assigned Identification Alphanumeric characters assigned for differentiation within a transaction set	O	1	AN 1/20
PO418	1470	Number A generic number	O	1	N0 1/9

Segment: **HL** Hierarchical Level - Tare
Position: 0100
Loop: HL Mandatory
Level: Detail
Usage: Mandatory
Max Use: 1
Purpose: To identify dependencies among and the content of hierarchically related groups of data segments

Syntax Notes:

Semantic Notes:

Comments:

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

Notes:

If shipping cartons are not palletized or otherwise bundled, omit the Tare Level.

Data Element Summary

Ref.	Data				Attributes
Des.	Element	Name			
M	HL01	628	Hierarchical ID Number		M 1 AN 1/12
			A unique number assigned by the sender to identify a particular data segment in a hierarchical structure		
	HL02	734	Hierarchical Parent ID Number		O 1 AN 1/12
			Identification number of the next higher hierarchical data segment that the data segment being described is subordinate to		
			This data element will contain the value of the HL01 in the parent Orderlevel HL segment.		
M	HL03	735	Hierarchical Level Code		M 1 ID 1/2
			Code defining the characteristic of a level in a hierarchical structure		
			T Shipping Tare		
	HL04	736	<i>Hierarchical Child Code</i>		O 1 ID 1/1
			<i>Code indicating if there are hierarchical child data segments subordinate to the level being described</i>		

Segment:	MAN Marks and Numbers Information
Position:	1900
Loop:	HL Mandatory
Level:	Detail
Usage:	Optional
Max Use:	>1
Purpose:	To indicate identifying marks and numbers for shipping containers
Syntax Notes:	<ol style="list-style-type: none"> 1 If either MAN04 or MAN05 is present, then the other is required. 2 If MAN06 is present, then MAN05 is required.
Semantic Notes:	<ol style="list-style-type: none"> 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:	<ol style="list-style-type: none"> 1 When MAN01 contains code "UC" (U.P.C. Shipping Container Code) and MAN05/MAN06 contain a range of ID numbers, MAN03 is not used. The reason for this is that the U.P.C. Shipping Container code is the same on every carton that is represented in the range in MAN05/MAN06. 2 MAN03 and/or MAN06 are only used when sending a range(s) of ID numbers. When both MAN02/MAN03 and MAN05/MAN06 are used to send ranges of ID numbers, the integrity of the two ID numbers must be maintained.
Notes:	<p>This segment, at the tare level, is used to specify the identification numbers for the pallet.</p> <p>When the tare level is used, one occurrence of the MAN segment containing the U.P.C. Shipping Container Code (SCC-14) is required.</p>

Data Element Summary

Ref.	Data	Name	Attributes
<u>Des.</u>	<u>Element</u>	<u>Name</u>	<u>Attributes</u>
M	MAN01	88 Marks and Numbers Qualifier Code specifying the application or source of Marks and Numbers (87) UC U.P.C. Shipping Container Code This is the fourteen-digit U.P.C. Shipping Container Code.	M 1 ID 1/2
M	MAN02	87 Marks and Numbers Marks and numbers used to identify a shipment or parts of a shipment	M 1 AN 1/48
	MAN03	87 Marks and Numbers Marks and numbers used to identify a shipment or parts of a shipment	O 1 AN 1/48
	MAN04	88 Marks and Numbers Qualifier Code specifying the application or source of Marks and Numbers (87) AA EAN.UCC Serial Shipping Container Code (SSCC) 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. CP Carrier-Assigned Package ID Number GM EAN.UCC Serial Shipping Container Code (SSCC) 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. SI Self-Identifying Container via Radio Frequency ID Device Inbound containers that do not need manual routing SM Shipper Assigned UC U.P.C. Shipping Container Code	X 1 ID 1/2

This is the fourteen-digit U.P.C. Shipping Container Code.

<i>MAN05</i>	<i>87</i>	<i>Marks and Numbers</i>	<i>X</i>	<i>1</i>	<i>AN 1/48</i>
		<i>Marks and numbers used to identify a shipment or parts of a shipment</i>			
<i>MAN06</i>	<i>87</i>	<i>Marks and Numbers</i>	<i>O</i>	<i>1</i>	<i>AN 1/48</i>
		<i>Marks and numbers used to identify a shipment or parts of a shipment</i>			

Segment:	MAN Marks and Numbers Information
Position:	1950
Loop:	HL Mandatory
Level:	Detail
Usage:	Optional
Max Use:	1
Purpose:	To indicate identifying marks and numbers for shipping containers
Syntax Notes:	<ol style="list-style-type: none"> 1 If either MAN04 or MAN05 is present, then the other is required. 2 If MAN06 is present, then MAN05 is required.
Semantic Notes:	<ol style="list-style-type: none"> 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:	<ol style="list-style-type: none"> 1 When MAN01 contains code "UC" (U.P.C. Shipping Container Code) and MAN05/MAN06 contain a range of ID numbers, MAN03 is not used. The reason for this is that the U.P.C. Shipping Container code is the same on every carton that is represented in the range in MAN05/MAN06. 2 MAN03 and/or MAN06 are only used when sending a range(s) of ID numbers. When both MAN02/MAN03 and MAN05/MAN06 are used to send ranges of ID numbers, the integrity of the two ID numbers must be maintained.
Notes:	<p>This segment, at the tare level, is used to specify the identification numbers for the pallet.</p> <p>An additional MAN segment at tare level may be sent whenever there is additional marking information the supplier would like to communicate to Wal-Mart.</p> <p>Usage of this additional MAN segment does NOT replace the requirement for a MAN segment containing the U.P.C. Shipping Container code (SCC-14).</p>

Data Element Summary

Ref.	Data	Name	Attributes
<u>Des.</u>	<u>Element</u>	<u>Name</u>	<u>Attributes</u>
M	MAN01	88 Marks and Numbers Qualifier	M 1 ID 1/2
		Code specifying the application or source of Marks and Numbers (87)	
		AA EAN.UCC Serial Shipping Container Code (SSCC)	
		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.	
		GM EAN.UCC Serial Shipping Container Code (SSCC) 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.	
		SM Shipper Assigned	
M	MAN02	87 Marks and Numbers	M 1 AN 1/48
		Marks and numbers used to identify a shipment or parts of a shipment	
	MAN03	87 Marks and Numbers	O 1 AN 1/48
		Marks and numbers used to identify a shipment or parts of a shipment	
	MAN04	88 Marks and Numbers Qualifier	X 1 ID 1/2
		Code specifying the application or source of Marks and Numbers (87)	
	MAN05	87 Marks and Numbers	X 1 AN 1/48
		Marks and numbers used to identify a shipment or parts of a shipment	
	MAN06	87 Marks and Numbers	O 1 AN 1/48
		Marks and numbers used to identify a shipment or parts of a shipment	

Segment: **PAL** Pallet Type and Load Characteristics

Position: 2150

Loop: HL Mandatory

Level: Detail

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 Notes:

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

Semantic Notes:

- 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.

Comments:

Data Element Summary

<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
<u>Des.</u>	<u>Element</u>		
PAL01	883	Pallet Type Code Code indicating the type of pallet	O 1 ID 1/2
PAL02	884	Pallet Tiers The number of layers per pallet	O 1 N0 1/3
PAL03	885	Pallet Blocks The number of pieces (cartons) per layer on the pallet	O 1 N0 1/3
PAL04	356	<i>Pack</i> <i>The number of inner containers, or number of eaches if there are no inner containers, per outer container</i>	O 1 N0 1/6
PAL05	395	<i>Unit Weight</i> <i>Numeric value of weight per unit</i>	X 1 R 1/8
PAL06	355	<i>Unit or Basis for Measurement Code</i> <i>Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken</i>	X 1 ID 2/2
PAL07	82	<i>Length</i> <i>Largest horizontal dimension of an object measured when the object is in the upright position</i>	X 1 R 1/8
PAL08	189	<i>Width</i> <i>Shorter measurement of the two horizontal dimensions measured with the object in the upright position</i>	X 1 R 1/8
PAL09	65	<i>Height</i> <i>Vertical dimension of an object measured when the object is in the upright position</i>	X 1 R 1/8
PAL10	355	<i>Unit or Basis for Measurement Code</i> <i>Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken</i>	X 1 ID 2/2
PAL11	384	<i>Gross Weight per Pack</i> <i>Numeric value of gross weight per pack</i>	X 1 R 1/9
PAL12	355	<i>Unit or Basis for Measurement Code</i>	X 1 ID 2/2

		<i>Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken</i>		
<i>PAL13</i>	<i>385</i>	<i>Gross Volume per Pack</i>	<i>X</i>	<i>1 R 1/9</i>
		<i>Numeric value of gross volume per pack</i>		
<i>PAL14</i>	<i>355</i>	<i>Unit or Basis for Measurement Code</i>	<i>X</i>	<i>1 ID 2/2</i>
		<i>Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken</i>		
<i>PAL15</i>	<i>399</i>	<i>Pallet Exchange Code</i>	<i>O</i>	<i>1 ID 1/1</i>
		<i>Code specifying pallet exchange instructions</i>		
<i>PAL16</i>	<i>810</i>	<i>Inner Pack</i>	<i>O</i>	<i>1 N0 1/6</i>
		<i>The number of eaches per inner container</i>		
<i>PAL17</i>	<i>1699</i>	<i>Pallet Structure Code</i>	<i>O</i>	<i>1 ID 1/1</i>
		<i>Code identifying the pallet structure</i>		

Segment: **HL** Hierarchical Level - Pack
Position: 0100
Loop: HL Mandatory
Level: Detail
Usage: Mandatory
Max Use: 1
Purpose: To identify dependencies among and the content of hierarchically related groups of data segments

Syntax Notes:
Semantic Notes:

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

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

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

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

Data Element Summary

Ref.	Data Element	Name	Attributes
M	HL01	Hierarchical ID Number A unique number assigned by the sender to identify a particular data segment in a hierarchical structure	M 1 AN 1/12
	HL02	Hierarchical Parent ID Number Identification number of the next higher hierarchical data segment that the data segment being described is subordinate to This data element will contain the value of the HL01 in the parent item level HL segment.	O 1 AN 1/12
M	HL03	Hierarchical Level Code Code defining the characteristic of a level in a hierarchical structure P Pack	M 1 ID 1/2
	HL04	Hierarchical Child Code Code indicating if there are hierarchical child data segments subordinate to the level being described	O 1 ID 1/1

Segment:	LIN Item Identification
Position:	0200
Loop:	HL Mandatory
Level:	Detail
Usage:	Optional
Max Use:	1
Purpose:	To specify basic item identification data
Syntax Notes:	<ol style="list-style-type: none"> 1 If either LIN04 or LIN05 is present, then the other is required. 2 If either LIN06 or LIN07 is present, then the other is required. 3 If either LIN08 or LIN09 is present, then the other is required. 4 If either LIN10 or LIN11 is present, then the other is required. 5 If either LIN12 or LIN13 is present, then the other is required. 6 If either LIN14 or LIN15 is present, then the other is required. 7 If either LIN16 or LIN17 is present, then the other is required. 8 If either LIN18 or LIN19 is present, then the other is required. 9 If either LIN20 or LIN21 is present, then the other is required. 10 If either LIN22 or LIN23 is present, then the other is required. 11 If either LIN24 or LIN25 is present, then the other is required. 12 If either LIN26 or LIN27 is present, then the other is required. 13 If either LIN28 or LIN29 is present, then the other is required. 14 If either LIN30 or LIN31 is present, then the other is required.
Semantic Notes:	1 LIN01 is the line item identification
Comments:	<ol style="list-style-type: none"> 1 See the Data Dictionary for a complete list of IDs. 2 LIN02 through LIN31 provide for fifteen different product/service IDs for each item. For example: Case, Color, Drawing No., U.P.C. No., ISBN No., Model No., or SKU.

Notes: 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.

The codes listed for LIN02 apply to every occurrence of Data Element 235 in the LIN segment.
Please note that the qualifying values entered in LIN02/04/06 may be transmitted in any order.

Data Element Summary

<u>Ref.</u>	<u>Data</u>	<u>Element</u>	<u>Name</u>	<u>Attributes</u>
	<i>LIN01</i>	350	<i>Assigned Identification</i>	<i>O 1 AN 1/20</i>
			<i>Alphanumeric characters assigned for differentiation within a transaction set</i>	
M	LIN02	235	Product/Service ID Qualifier	M 1 ID 2/2
			Code identifying the type/source of the descriptive number used in Product/Service ID (234)	
			EN	EAN/UCC - 13
				Data structure for the 13 digit EAN.UCC (EAN International.Uniform Code Council) Global Trade Identification Number (GTIN)
			UA	U.P.C./EAN Case Code (2-5-5)
M	LIN03	234	Product/Service ID	M 1 AN 1/48
			Identifying number for a product or service	
	LIN04	235	Product/Service ID Qualifier	X 1 ID 2/2
			Code identifying the type/source of the descriptive number used in Product/Service ID (234)	
			PJ	Product Date Code (A code indicating the period during which a product was manufactured.)
	LIN05	234	Product/Service ID	X 1 AN 1/48
			Identifying number for a product or service	

LIN06	235	Product/Service ID Qualifier	X	1 ID 2/2
		Code identifying the type/source of the descriptive number used in Product/Service ID (234)		
		VN Vendor's (Seller's) Item Number		
LIN07	234	Product/Service ID	X	1 AN 1/48
		Identifying number for a product or service		
<i>LIN08</i>	<i>235</i>	<i>Product/Service ID Qualifier</i>	<i>X</i>	<i>1 ID 2/2</i>
		<i>Code identifying the type/source of the descriptive number used in Product/Service ID (234)</i>		
<i>LIN09</i>	<i>234</i>	<i>Product/Service ID</i>	<i>X</i>	<i>1 AN 1/48</i>
		<i>Identifying number for a product or service</i>		
<i>LIN10</i>	<i>235</i>	<i>Product/Service ID Qualifier</i>	<i>X</i>	<i>1 ID 2/2</i>
		<i>Code identifying the type/source of the descriptive number used in Product/Service ID (234)</i>		
<i>LIN11</i>	<i>234</i>	<i>Product/Service ID</i>	<i>X</i>	<i>1 AN 1/48</i>
		<i>Identifying number for a product or service</i>		
<i>LIN12</i>	<i>235</i>	<i>Product/Service ID Qualifier</i>	<i>X</i>	<i>1 ID 2/2</i>
		<i>Code identifying the type/source of the descriptive number used in Product/Service ID (234)</i>		
<i>LIN13</i>	<i>234</i>	<i>Product/Service ID</i>	<i>X</i>	<i>1 AN 1/48</i>
		<i>Identifying number for a product or service</i>		
<i>LIN14</i>	<i>235</i>	<i>Product/Service ID Qualifier</i>	<i>X</i>	<i>1 ID 2/2</i>
		<i>Code identifying the type/source of the descriptive number used in Product/Service ID (234)</i>		
<i>LIN15</i>	<i>234</i>	<i>Product/Service ID</i>	<i>X</i>	<i>1 AN 1/48</i>
		<i>Identifying number for a product or service</i>		
<i>LIN16</i>	<i>235</i>	<i>Product/Service ID Qualifier</i>	<i>X</i>	<i>1 ID 2/2</i>
		<i>Code identifying the type/source of the descriptive number used in Product/Service ID (234)</i>		
<i>LIN17</i>	<i>234</i>	<i>Product/Service ID</i>	<i>X</i>	<i>1 AN 1/48</i>
		<i>Identifying number for a product or service</i>		
<i>LIN18</i>	<i>235</i>	<i>Product/Service ID Qualifier</i>	<i>X</i>	<i>1 ID 2/2</i>
		<i>Code identifying the type/source of the descriptive number used in Product/Service ID (234)</i>		
<i>LIN19</i>	<i>234</i>	<i>Product/Service ID</i>	<i>X</i>	<i>1 AN 1/48</i>
		<i>Identifying number for a product or service</i>		
<i>LIN20</i>	<i>235</i>	<i>Product/Service ID Qualifier</i>	<i>X</i>	<i>1 ID 2/2</i>
		<i>Code identifying the type/source of the descriptive number used in Product/Service ID (234)</i>		
<i>LIN21</i>	<i>234</i>	<i>Product/Service ID</i>	<i>X</i>	<i>1 AN 1/48</i>
		<i>Identifying number for a product or service</i>		
<i>LIN22</i>	<i>235</i>	<i>Product/Service ID Qualifier</i>	<i>X</i>	<i>1 ID 2/2</i>
		<i>Code identifying the type/source of the descriptive number used in Product/Service ID (234)</i>		
<i>LIN23</i>	<i>234</i>	<i>Product/Service ID</i>	<i>X</i>	<i>1 AN 1/48</i>
		<i>Identifying number for a product or service</i>		
<i>LIN24</i>	<i>235</i>	<i>Product/Service ID Qualifier</i>	<i>X</i>	<i>1 ID 2/2</i>
		<i>Code identifying the type/source of the descriptive number used in Product/Service ID (234)</i>		
<i>LIN25</i>	<i>234</i>	<i>Product/Service ID</i>	<i>X</i>	<i>1 AN 1/48</i>
		<i>Identifying number for a product or service</i>		
<i>LIN26</i>	<i>235</i>	<i>Product/Service ID Qualifier</i>	<i>X</i>	<i>1 ID 2/2</i>
		<i>Code identifying the type/source of the descriptive number used in Product/Service ID (234)</i>		
<i>LIN27</i>	<i>234</i>	<i>Product/Service ID</i>	<i>X</i>	<i>1 AN 1/48</i>

		<i>Identifying number for a product or service</i>		
LIN28	235	<i>Product/Service ID Qualifier</i>	X	1 ID 2/2
		<i>Code identifying the type/source of the descriptive number used in Product/Service ID (234)</i>		
LIN29	234	<i>Product/Service ID</i>	X	1 AN 1/48
		<i>Identifying number for a product or service</i>		
LIN30	235	<i>Product/Service ID Qualifier</i>	X	1 ID 2/2
		<i>Code identifying the type/source of the descriptive number used in Product/Service ID (234)</i>		
LIN31	234	<i>Product/Service ID</i>	X	1 AN 1/48
		<i>Identifying number for a product or service</i>		

Segment: **SN1** Item Detail (Shipment)
Position: 0300
Loop: HL Mandatory
Level: Detail
Usage: Optional
Max Use: 1
Purpose: To specify line-item detail relative to shipment
Syntax Notes: 1 If either SN105 or SN106 is present, then the other is required.
Semantic Notes: 1 SN101 is the ship notice line-item identification.
 2 SN105 is quantity ordered.
Comments: 1 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.	Data	Name		Attributes
Des.	Element			
SN101	350	Assigned Identification		O 1 AN 1/20
		<i>Alphanumeric characters assigned for differentiation within a transaction set</i>		
M	SN102	382	Number of Units Shipped	M 1 R 1/10
			Numeric value of units shipped in manufacturer's shipping units for a line item or transaction set	
M	SN103	355	Unit or Basis for Measurement Code	M 1 ID 2/2
			Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken	
		CA	Case	
		EA	Each	
SN104	646	Quantity Shipped to Date		O 1 R 1/15
		<i>Number of units shipped to date</i>		
SN105	380	Quantity		X 1 R 1/15
		<i>Numeric value of quantity</i>		
SN106	355	Unit or Basis for Measurement Code		X 1 ID 2/2
		<i>Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken</i>		
SN107	728	Returnable Container Load Make-Up Code		O 1 ID 1/2
		<i>Code identifying the load make-up of the returnable containers in the shipment</i>		
SN108	668	Line Item Status Code		O 1 ID 2/2
		<i>Code specifying the action taken by the seller on a line item requested by the buyer</i>		

Segment: **PO4** Item Physical Details

Position: 0600

Loop: HL Mandatory

Level: Detail

Usage: Optional

Max Use: 1

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

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

- Semantic Notes:**
- 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:**
- 1 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".
 - 2 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

<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
<u>Des.</u>	<u>Element</u>		
PO401	356	<i>Pack</i> <i>The number of inner containers, or number of eaches if there are no inner containers, per outer container</i>	O 1 N0 1/6
PO402	357	<i>Size</i> <i>Size of supplier units in pack</i>	X 1 R 1/8
PO403	355	<i>Unit or Basis for Measurement Code</i> <i>Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken</i>	X 1 ID 2/2
PO404	103	<i>Packaging Code</i> <i>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</i>	X 1 AN 3/5
PO405	187	<i>Weight Qualifier</i> <i>Code defining the type of weight</i>	O 1 ID 1/2
PO406	384	Gross Weight per Pack Numeric value of gross weight per pack	X 1 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 GR Gram KG Kilogram LB Pound OZ Ounce - Av	X 1 ID 2/2
PO408	385	<i>Gross Volume per Pack</i> <i>Numeric value of gross volume per pack</i>	X 1 R 1/9
PO409	355	<i>Unit or Basis for Measurement Code</i> <i>Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken</i>	X 1 ID 2/2
PO410	82	Length Largest horizontal dimension of an object measured when the object is in the upright position	X 1 R 1/8
PO411	189	Width Shorter measurement of the two horizontal dimensions measured with the object in the upright position	X 1 R 1/8
PO412	65	Height Vertical dimension of an object measured when the object is in the upright position	X 1 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 CM Centimeter IN Inch MM Millimeter	X 1 ID 2/2
PO414	810	<i>Inner Pack</i> <i>The number of eaches per inner container</i>	O 1 N0 1/6
PO415	752	<i>Surface/Layer/Position Code</i>	O 1 ID 2/2

		<i>Code indicating the product surface, layer or position that is being described</i>			
<i>PO416</i>	<i>350</i>	<i>Assigned Identification</i>	<i>X</i>	<i>1</i>	<i>AN 1/20</i>
		<i>Alphanumeric characters assigned for differentiation within a transaction set</i>			
<i>PO417</i>	<i>350</i>	<i>Assigned Identification</i>	<i>O</i>	<i>1</i>	<i>AN 1/20</i>
		<i>Alphanumeric characters assigned for differentiation within a transaction set</i>			
<i>PO418</i>	<i>1470</i>	<i>Number</i>	<i>O</i>	<i>1</i>	<i>N0 1/9</i>
		<i>A generic number</i>			

Segment:	MAN Marks and Numbers Information
Position:	1900
Loop:	HL Mandatory
Level:	Detail
Usage:	Optional
Max Use:	>1
Purpose:	To indicate identifying marks and numbers for shipping containers
Syntax Notes:	<ol style="list-style-type: none"> 1 If either MAN04 or MAN05 is present, then the other is required. 2 If MAN06 is present, then MAN05 is required.
Semantic Notes:	<ol style="list-style-type: none"> 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:	<ol style="list-style-type: none"> 1 When MAN01 contains code "UC" (U.P.C. Shipping Container Code) and MAN05/MAN06 contain a range of ID numbers, MAN03 is not used. The reason for this is that the U.P.C. Shipping Container code is the same on every carton that is represented in the range in MAN05/MAN06. 2 MAN03 and/or MAN06 are only used when sending a range(s) of ID numbers. When both MAN02/MAN03 and MAN05/MAN06 are used to send ranges of ID numbers, the integrity of the two ID numbers must be maintained.
Notes:	<p>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. This segment is required by Wal-Mart Stores, Inc.</p> <p>One occurrence of the MAN segment containing the U.P.C. Shipping Container Code (SCC-14) is required at pack level. However, when the shipping container is the same as the consumer unit, the U.P.C. Consumer Package code may be used in place of the SCC-14.</p>

Data Element Summary

Ref.	Data	Name	Attributes
Des.	Element	Code	Code
M	MAN01	88	Marks and Numbers Qualifier Code specifying the application or source of Marks and Numbers (87) UC U.P.C. Shipping Container Code <i>This is the fourteen-digit U.P.C. Shipping Container Code.</i> UP U.P.C. Consumer Package Code (1-5-5-1) <i>Use this qualifier and the corresponding marks and numbers at pack level when the shipping container is the same as the consumer unit. In this case, the item U.P.C. would be the only UCC identification code on the container.</i>
M	MAN02	87	Marks and Numbers Marks and numbers used to identify a shipment or parts of a shipment M 1 AN 1/48
	MAN03	87	Marks and Numbers Marks and numbers used to identify a shipment or parts of a shipment O 1 AN 1/48
	MAN04	88	<i>Marks and Numbers Qualifier</i> Code specifying the application or source of Marks and Numbers (87) X 1 ID 1/2
	MAN05	87	<i>Marks and Numbers</i> Marks and numbers used to identify a shipment or parts of a shipment X 1 AN 1/48

Marks and numbers used to identify a shipment or parts of a shipment

Segment:	MAN Marks and Numbers Information
Position:	1950
Loop:	HL Mandatory
Level:	Detail
Usage:	Optional
Max Use:	1
Purpose:	To indicate identifying marks and numbers for shipping containers
Syntax Notes:	<ol style="list-style-type: none"> 1 If either MAN04 or MAN05 is present, then the other is required. 2 If MAN06 is present, then MAN05 is required.
Semantic Notes:	<ol style="list-style-type: none"> 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:	<ol style="list-style-type: none"> 1 When MAN01 contains code "UC" (U.P.C. Shipping Container Code) and MAN05/MAN06 contain a range of ID numbers, MAN03 is not used. The reason for this is that the U.P.C. Shipping Container code is the same on every carton that is represented in the range in MAN05/MAN06. 2 MAN03 and/or MAN06 are only used when sending a range(s) of ID numbers. When both MAN02/MAN03 and MAN05/MAN06 are used to send ranges of ID numbers, the integrity of the two ID numbers must be maintained.

Data Element Summary

Ref.	Data	Name	Attributes
<u>Des.</u>	<u>Element</u>	<u>Name</u>	<u>Attributes</u>
M	MAN01	88 Marks and Numbers Qualifier Code specifying the application or source of Marks and Numbers (87) CP Carrier-Assigned Package ID Number	M 1 ID 1/2
M	MAN02	87 Marks and Numbers Marks and numbers used to identify a shipment or parts of a shipment For small package shipments, this qualifier and the corresponding Marks and Numbers are required by Wal-Mart Stores, Inc.	M 1 AN 1/48
	MAN03	87 Marks and Numbers Marks and numbers used to identify a shipment or parts of a shipment	O 1 AN 1/48
	MAN04	88 <i>Marks and Numbers Qualifier</i> Code specifying the application or source of Marks and Numbers (87)	X 1 ID 1/2
	MAN05	87 <i>Marks and Numbers</i> Marks and numbers used to identify a shipment or parts of a shipment	X 1 AN 1/48
	MAN06	87 <i>Marks and Numbers</i> Marks and numbers used to identify a shipment or parts of a shipment	O 1 AN 1/48

Segment:	MAN Marks and Numbers Information
Position:	1975
Loop:	HL Mandatory
Level:	Detail
Usage:	Optional
Max Use:	1
Purpose:	To indicate identifying marks and numbers for shipping containers
Syntax Notes:	<ol style="list-style-type: none"> 1 If either MAN04 or MAN05 is present, then the other is required. 2 If MAN06 is present, then MAN05 is required.
Semantic Notes:	<ol style="list-style-type: none"> 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:	<ol style="list-style-type: none"> 1 When MAN01 contains code "UC" (U.P.C. Shipping Container Code) and MAN05/MAN06 contain a range of ID numbers, MAN03 is not used. The reason for this is that the U.P.C. Shipping Container code is the same on every carton that is represented in the range in MAN05/MAN06. 2 MAN03 and/or MAN06 are only used when sending a range(s) of ID numbers. When both MAN02/MAN03 and MAN05/MAN06 are used to send ranges of ID numbers, the integrity of the two ID numbers must be maintained.
Notes:	<p>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.</p> <p>An additional MAN segment at pack level may be sent whenever there is additional marking information the supplier would like to communicate to Wal-Mart.</p> <p>Usage of this additional MAN segment does NOT replace the requirement for a MAN segment containing the U.P.C. Shipping Container Code (SCC-14).</p>

Data Element Summary

Ref. Des.	Data Element	Name	Attributes
M	MAN01	88 Marks and Numbers Qualifier	M 1 ID 1/2
		Code specifying the application or source of Marks and Numbers (87)	
		AA	EAN.UCC Serial Shipping Container Code (SSCC) 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.
		GM	EAN.UCC Serial Shipping Container Code (SSCC) 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.
		SM	Shipper Assigned Use this qualifier and the corresponding marks and numbers at pack level to send the Shipper Assigned number only if this information is used as the marking.
		UP	U.P.C. Consumer Package Code (1-5-5-1) Use this qualifier and the corresponding marks and numbers at pack level to send the UPC Consumer Package Code only if this information is used as the marking.

M	MAN02	87	Marks and Numbers	M	1	AN 1/48
			Marks and numbers used to identify a shipment or parts of a shipment			
	MAN03	87	Marks and Numbers	O	1	AN 1/48
			Marks and numbers used to identify a shipment or parts of a shipment			
	<i>MAN04</i>	<i>88</i>	<i>Marks and Numbers Qualifier</i>	<i>X</i>	<i>1</i>	<i>ID 1/2</i>
			<i>Code specifying the application or source of Marks and Numbers (87)</i>			
	<i>MAN05</i>	<i>87</i>	<i>Marks and Numbers</i>	<i>X</i>	<i>1</i>	<i>AN 1/48</i>
			<i>Marks and numbers used to identify a shipment or parts of a shipment</i>			
	<i>MAN06</i>	<i>87</i>	<i>Marks and Numbers</i>	<i>O</i>	<i>1</i>	<i>AN 1/48</i>
			<i>Marks and numbers used to identify a shipment or parts of a shipment</i>			

Segment: **DTM** Date/Time Reference
Position: 2000
Loop: HL Mandatory
Level: Detail
Usage: Optional
Max Use: 10
Purpose: To specify pertinent dates and times
Syntax Notes:

- 1 At least one of DTM02 DTM03 or DTM05 is required.
- 2 If DTM04 is present, then DTM03 is required.
- 3 If either DTM05 or DTM06 is present, then the other is required.

Semantic Notes:

Comments:

Notes:

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

Data Element Summary

Ref.	Data Element	Name	Attributes
M	DTM01	374 Date/Time Qualifier	M 1 ID 3/3
		Code specifying type of date or time, or both date and time	
		036 Expiration Date coverage expires Date product is no longer consumable or usable	
		405 Production Used to identify dates and times that operations or processes were performed	
		511 Shelf Life Expiration Date product is no longer available for sale	
	DTM02	373 Date	X 1 DT 8/8
		Date expressed as CCYYMMDD where CC represents the first two digits of the calendar year	
	DTM03	337 Time	X 1 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)	
	DTM04	623 Time Code	O 1 ID 2/2
		Code identifying the time. In accordance with International Standards Organization standard 8601, time can be specified by a + or - and an indication in hours in relation to Universal Time Coordinate (UTC) time; since + is a restricted character, + and - are substituted by P and M in the codes that follow	
	DTM05	1250 Date Time Period Format Qualifier	X 1 ID 2/3
		Code indicating the date format, time format, or date and time format	
	DTM06	1251 Date Time Period	X 1 AN 1/35
		Expression of a date, a time, or range of dates, times or dates and times	

Segment: **CTT** Transaction Totals
Position: 0100
Loop:
Level: Summary
Usage: Optional
Max Use: 1
Purpose: To transmit a hash total for a specific element in the transaction set
Syntax Notes: 1 If either CTT03 or CTT04 is present, then the other is required.
 2 If either CTT05 or CTT06 is present, then the other is required.
Semantic Notes:
Comments: 1 This segment is intended to provide hash totals to validate transaction completeness and correctness.
Notes: This segment is required by Wal-Mart Stores, Inc.

Data Element Summary

Ref.	Data	Attributes		
<u>Des.</u>	<u>Element</u>	<u>Name</u>	<u>Attributes</u>	
M	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 1 N0 1/6
	CTT02	347	<i>Hash Total</i> <i>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.</i>	O 1 R 1/10
			<i>Example:</i> <i>-.0018 First occurrence of value being hashed.</i> <i>.18 Second occurrence of value being hashed.</i> <i>1.8 Third occurrence of value being hashed.</i> <i>18.01 Fourth occurrence of value being hashed.</i> <i>18E2 Fifth occurrence of value being hashed.</i> ----- <i>1873 Hash Total</i>	
	CTT03	81	<i>Weight</i> <i>Numeric value of weight</i>	X 1 R 1/10
	CTT04	355	<i>Unit or Basis for Measurement Code</i> <i>Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken</i>	X 1 ID 2/2
	CTT05	183	<i>Volume</i> <i>Value of volumetric measure</i>	X 1 R 1/8
	CTT06	355	<i>Unit or Basis for Measurement Code</i> <i>Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken</i>	X 1 ID 2/2
	CTT07	352	<i>Description</i> <i>A free-form description to clarify the related data elements and their content</i>	O 1 AN 1/80

Segment: **SE** Transaction Set Trailer
Position: 0200
Loop:
Level: Summary
Usage: Mandatory
Max Use: 1
Purpose: To indicate the end of the transaction set and provide the count of the transmitted segments (including the beginning (ST) and ending (SE) segments)

Syntax Notes:

Semantic Notes:

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

Data Element Summary

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
M	SE01	96	Number of Included Segments Total number of segments included in a transaction set including ST and SE segments	M 1 N0 1/10
M	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 This must be the same number as is in the ST segment (ST02) for the transaction set.	M 1 AN 4/9

ANSI X12 Introduction to the 856 Ship Notice/Manifest

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

The sender of this transaction is the organization responsible for detailing and communicating the contents of a shipment, or shipments, to one or more receivers of the transaction set. The receiver of this transaction set can be any organization having an interest in the contents of a shipment or information about the contents of a shipment.

856 Ship Notice/Manifest - ANSI X12 Guidelines

Functional Group ID=**SH**

Heading:

	<u>Pos. No.</u>	<u>Seg. ID</u>	<u>Name</u>	<u>Req. Des.</u>	<u>Max.Use</u>	<u>Loop Repeat</u>	<u>Notes and Comments</u>
M	0100	ST	Transaction Set Header	M	1		
M	0200	BSN	Beginning Segment for Ship Notice	M	1		
	0400	DTM	Date/Time Reference	O	10		

Detail:

	<u>Pos. No.</u>	<u>Seg. ID</u>	<u>Name</u>	<u>Req. Des.</u>	<u>Max.Use</u>	<u>Loop Repeat</u>	<u>Notes and Comments</u>
			LOOP ID - HL			200000	
M	0100	HL	Hierarchical Level	M	1		c1
	0200	LIN	Item Identification	O	1		
	0300	SN1	Item Detail (Shipment)	O	1		
	0400	SLN	Subline Item Detail	O	1000		
	0500	PRF	Purchase Order Reference	O	1		
	0600	PO4	Item Physical Details	O	1		
	0700	PID	Product/Item Description	O	200		
	0800	MEA	Measurements	O	40		
	0900	PWK	Paperwork	O	25		
	1000	PKG	Marking, Packaging, Loading	O	25		
	1100	TD1	Carrier Details (Quantity and Weight)	O	20		
	1200	TD5	Carrier Details (Routing Sequence/Transit Time)	O	12		
			LOOP ID - TD3			12	
	1300	TD3	Carrier Details (Equipment)	O	1		
	1350	AT9	Trailer or Container Dimension and Weight	O	1		
	1400	TD4	Carrier Details (Special Handling, or Hazardous Materials, or Both)	O	5		
	1450	TSD	Trailer Shipment Details	O	1		
	1500	REF	Reference Information	O	>1		
	1510	PER	Administrative Communications Contact	O	3		
			LOOP ID - LH1			100	
	1520	LH1	Hazardous Identification Information	O	1		
	1530	LH2	Hazardous Classification Information	O	4		
	1540	LH3	Hazardous Material Shipping Name Information	O	12		
	1550	LFH	Free-form Hazardous Material Information	O	20		
	1560	LEP	EPA Required Data	O	>1		
	1570	LH4	Canadian Dangerous Requirements	O	4		
	1580	LHT	Transborder Hazardous Requirements	O	3		
	1590	LHR	Hazardous Material Identifying Reference Numbers	O	10		
	1600	PER	Administrative Communications Contact	O	5		
	1610	LHE	Empty Equipment Hazardous Material Information	O	1		
			LOOP ID - CLD			200	
	1700	CLD	Load Detail	O	1		
	1800	REF	Reference Information	O	200		
	1850	DTP	Date or Time or Period	O	1		
	1900	MAN	Marks and Numbers Information	O	>1		
	2000	DTM	Date/Time Reference	O	10		
	2100	FOB	F.O.B. Related Instructions	O	1		
	2150	PAL	Pallet Type and Load Characteristics	O	1		

		LOOP ID - N1		200
	2200	N1	Party Identification	O 1
	2300	N2	Additional Name Information	O 2
	2400	N3	Party Location	O 2
	2500	N4	Geographic Location	O 1
	2600	REF	Reference Information	O 12
	2700	PER	Administrative Communications Contact	O 3
	2800	FOB	F.O.B. Related Instructions	O 1
	2900	SDQ	Destination Quantity	O 50
	3000	ETD	Excess Transportation Detail	O 1
	3100	CUR	Currency	O 1
		LOOP ID - SAC		>1
	3200	SAC	Service, Promotion, Allowance, or Charge Information	O 1
	3250	CUR	Currency	O 1
	3300	GF	Furnished Goods and Services	O 1
	3350	YNQ	Yes/No Question	O 10
		LOOP ID - LM		10
	3400	LM	Code Source Information	O 1
M	3500	LQ	Industry Code Identification	M 100
		LOOP ID - V1		>1
	3600	V1	Vessel Identification	O 1
	3700	R4	Port or Terminal	O >1
	3800	DTM	Date/Time Reference	O >1

Summary:

	<u>Pos. No.</u>	<u>Seg. ID</u>	<u>Name</u>	<u>Req. Des.</u>	<u>Max.Use</u>	<u>Loop Repeat</u>	<u>Notes and Comments</u>
	0100	CTT	Transaction Totals	O	1		n1
M	0200	SE	Transaction Set Trailer	M	1		

Transaction Set Notes

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

Transaction Set Comments

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

VICS Introduction to the 856 Ship Notice/Manifest

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

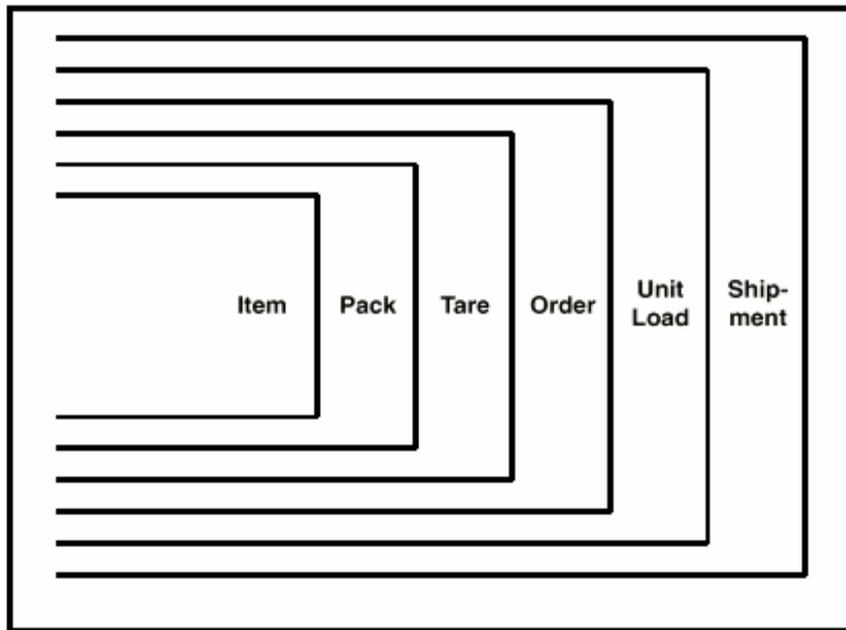
The retail industry has identified six hierarchical levels for use within the Ship Notice/Manifest transaction set. The following are the definitions of these levels:.

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 relayed at this level.

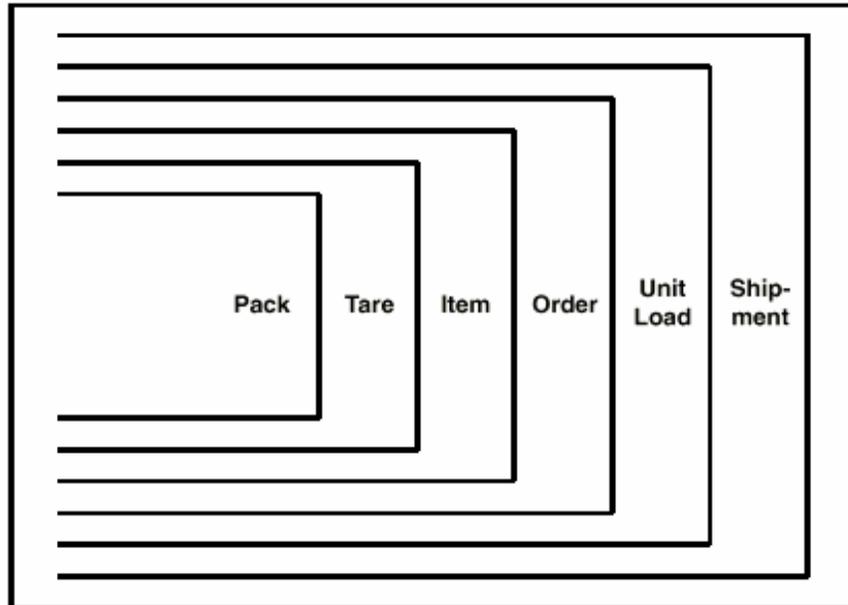
The retail industry implementation of the Ship Notice/Manifest transaction set supports both methods of merchandise shipment packaging with two distinct hierarchical structures. Each structure contains the same levels, i.e. Shipment, Unit Load, Order, Tare, Pack, and Item, and the usage of the segments 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.

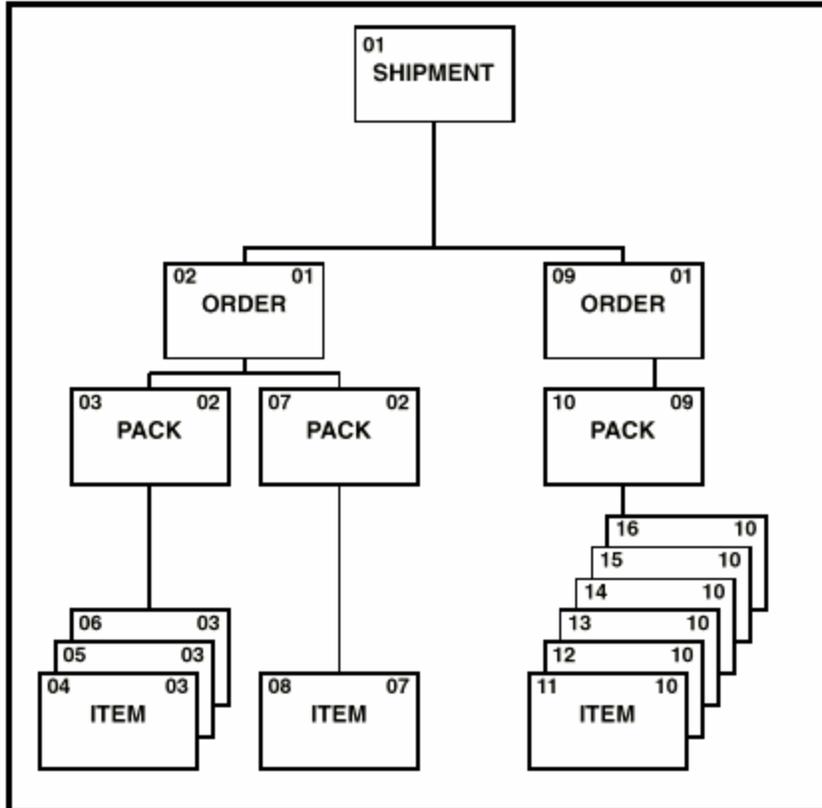


For the Standard Carton Pack Structure, the Item is between the Order level and the Tare level, i.e., the specification of the shipment containers is always within the SKU. The SKU is specified, then all of the shipping containers for the SKUs are identified. The order of the hierarchical levels are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



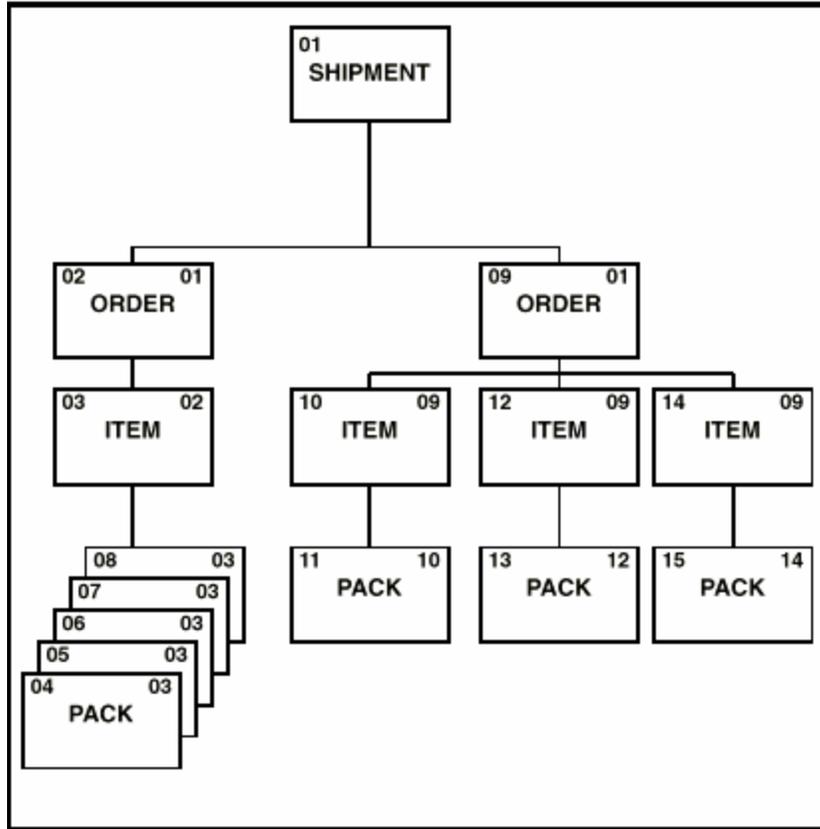
Pick and Pack Structure Example

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).



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.

856 Ship Notice/Manifest – VICS Guidelines

Heading:

	<u>Pos. No.</u>	<u>Seg. ID</u>	<u>Name</u>	<u>Req. Des.</u>	<u>Max.Use</u>	<u>Loop Repeat</u>	<u>Notes and Comments</u>
M	0100	ST	Transaction Set Header	M	1		
M	0200	BSN	Beginning Segment for Ship Notice	M	1		

Detail:

	<u>Pos. No.</u>	<u>Seg. ID</u>	<u>Name</u>	<u>Req. Des.</u>	<u>Max.Use</u>	<u>Loop Repeat</u>	<u>Notes and Comments</u>
			LOOP ID - HL			200000	
M	0100	HL	Hierarchical Level	M	1		c1
	1100	TD1	Carrier Details (Quantity and Weight)	O	20		
	1200	TD5	Carrier Details (Routing Sequence/Transit Time)	O	12		
			LOOP ID - TD3			12	
	1300	TD3	Carrier Details (Equipment)	O	1		
	1350	AT9	Trailer or Container Dimension and Weight	O	1		
	1400	TD4	Carrier Details (Special Handling, or Hazardous Materials, or Both)	O	5		
	1500	REF	Reference Information	O	>1		
	1510	PER	Administrative Communications Contact	O	3		
	1900	MAN	Marks and Numbers Information	O	>1		
	2000	DTM	Date/Time Reference	O	10		
	2100	FOB	F.O.B. Related Instructions	O	1		
			LOOP ID - N1			200	
	2200	N1	Party Identification	O	1		
	2300	N2	Additional Name Information	O	2		
	2400	N3	Party Location	O	2		
	2500	N4	Geographic Location	O	1		

Detail:

	<u>Pos. No.</u>	<u>Seg. ID</u>	<u>Name</u>	<u>Req. Des.</u>	<u>Max.Use</u>	<u>Loop Repeat</u>	<u>Notes and Comments</u>
			LOOP ID - HL			200000	
M	0100	HL	Hierarchical Level	M	1		n1
			LOOP ID - TD3			12	
	1300	TD3	Carrier Details (Equipment)	O	1		
	1350	AT9	Trailer or Container Dimension and Weight	O	1		
	1900	MAN	Marks and Numbers Information	O	>1		

Detail:

	<u>Pos. No.</u>	<u>Seg. ID</u>	<u>Name</u>	<u>Req. Des.</u>	<u>Max.Use</u>	<u>Loop Repeat</u>	<u>Notes and Comments</u>
			LOOP ID - HL			200000	
M	0100	HL	Hierarchical Level	M	1		
	0500	PRF	Purchase Order Reference	O	1		
	0700	PID	Product/Item Description	O	200		
	1100	TD1	Carrier Details (Quantity and Weight)	O	20		
	1200	TD5	Carrier Details (Routing Sequence/Transit	O	12		

1450	TSD	Trailer Shipment Details	O	1
1500	REF	Reference Information	O	>1
2000	DTM	Date/Time Reference	O	10
LOOP ID - N1				200
2200	N1	Party Identification	O	1
2300	N2	Additional Name Information	O	2
2400	N3	Party Location	O	2
2500	N4	Geographic Location	O	1
3100	CUR	Currency	O	1

Detail:

	<u>Pos. No.</u>	<u>Seg. ID</u>	<u>Name</u>	<u>Req. Des.</u>	<u>Max.Use</u>	<u>Loop Repeat</u>	<u>Notes and Comments</u>
	LOOP ID - HL						200000
M	0100	HL	Hierarchical Level	M	1		
	1450	TSD	Trailer Shipment Details	O	1		
	1900	MAN	Marks and Numbers Information	O	>1		
	2150	PAL	Pallet Type and Load Characteristics	O	1		

Detail:

	<u>Pos. No.</u>	<u>Seg. ID</u>	<u>Name</u>	<u>Req. Des.</u>	<u>Max.Use</u>	<u>Loop Repeat</u>	<u>Notes and Comments</u>
	LOOP ID - HL						200000
M	0100	HL	Hierarchical Level	M	1		
	0200	LIN	Item Identification	O	1		
	0300	SN1	Item Detail (Shipment)	O	1		
	0400	SLN	Subline Item Detail	O	1000		
	0600	PO4	Item Physical Details	O	1		
	1000	PKG	Marking, Packaging, Loading	O	25		
	1450	TSD	Trailer Shipment Details	O	1		
	1900	MAN	Marks and Numbers Information	O	>1		
	2000	DTM	Date/Time Reference	O	10		

Detail:

	<u>Pos. No.</u>	<u>Seg. ID</u>	<u>Name</u>	<u>Req. Des.</u>	<u>Max.Use</u>	<u>Loop Repeat</u>	<u>Notes and Comments</u>
	LOOP ID - HL						200000
M	0100	HL	Hierarchical Level	M	1		
	0200	LIN	Item Identification	O	1		
	0300	SN1	Item Detail (Shipment)	O	1		
	0400	SLN	Subline Item Detail	O	1000		
	0500	PRF	Purchase Order Reference	O	1		
	0600	PO4	Item Physical Details	O	1		
	0700	PID	Product/Item Description	O	200		
	0800	MEA	Measurements	O	40		
	1000	PKG	Marking, Packaging, Loading	O	25		
	1100	TD1	Carrier Details (Quantity and Weight)	O	20		
	1200	TD5	Carrier Details (Routing Sequence/Transit Time)	O	12		
	1400	TD4	Carrier Details (Special Handling, or Hazardous Materials, or Both)	O	5		

1500	REF	Reference Information	O	>1
2000	DTM	Date/Time Reference	O	10
LOOP ID - SAC				>1
3200	SAC	Service, Promotion, Allowance, or Charge Information	O	1

Summary:

	<u>Pos. No.</u>	<u>Seg. ID</u>	<u>Name</u>	<u>Req. Des.</u>	<u>Max.Use</u>	<u>Loop Repeat</u>	<u>Notes and Comments</u>
	0100	CTT	Transaction Totals	O	1		
M	0200	SE	Transaction Set Trailer	M	1		

Transaction Set Notes

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

Transaction Set Comments

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

Conventions used in these guidelines

1. Every data element on each segment is listed in the Data Element Summary section of the segment documentation, including unused Elements.
2. Every data element has the ANSI X12 data element ID noted.
3. Every data element has the ANSI X12 data element title noted.
4. Every data element has the ANSI X12 data element attributes noted:
 - 4.1. Data element requirement designation
 - 4.1.1. **Mandatory (M)** This element is required to appear in the segment.
 - 4.1.2. **Optional (O)** The appearance of this data element is at the option of the sending party or is based on the mutual agreement of the interchange parties.
 - 4.1.3. **Relational (X)** Relational conditions may exist between two or more data elements within a segment based on the presence or absence of one of those data elements. The relational condition is displayed under the heading “Syntax Notes.”
 - 4.2. Data element type
 - 4.2.1. **Numeric (Nn)** — The numeric type of data element is symbolized by the two-position representation Nn. N indicates a numeric, and n indicates the decimal places to the right of a fixed, implied decimal point. the decimal point is not transmitted in the character stream. For negative values, the leading minus sign (-) is used. Absence of a sign indicates a positive value. The plus sign (+) should not be transmitted. Leading zeros should be suppressed unless necessary to satisfy a minimum length requirement. The length of the data element is the number of digits used. The minus sign (-) is not counted when determining the length of the data element value.
 - 4.2.2. **Decimal Number (R)** — The decimal type of data element is symbolized by the representation R. The decimal point is optional for integer values, but required for fractional values. For negative values, the leading minus sign (-) is used. Absence of a sign indicates a positive value. The plus sign (+) should not be transmitted. Leading zeros should be suppressed unless necessary to satisfy a minimum length requirement. The minus sign and the decimal point are not counted when determining the length of the data element value.
 - 4.2.3. **Identifier (ID)** — The identifier type of data element is symbolized by the representation ID. An identifier data element must always contain a value from a predefined list of values that is maintained by ASC X12 or other bodies that are recognized by ASC X12. The value is left justified. Trailing spaces should be suppressed.
 - 4.2.4. **String (AN)** — The string type of data element is symbolized by the representation AN. Contents of string type data elements are a sequence of any letters, digits, spaces, and/or special characters and contain at least one non-space character. The significant characters must be left justified. Leading spaces, if used, are assumed to be significant characters. Trailing spaces should be suppressed.
 - 4.2.5. **Date (DT)** — The date type of data element is symbolized by the representation DT. Format for the date type is CCYYMMDD. CC is the two digit Century (00-99). YY is the last two digits of the year (00-99), MM is the numeric value of the month (01-12), and DD is the numeric value of the day (01-31).
 - 4.2.6. **Time (TM)** — The time type is symbolized by the representation TM. Format for this type is expressed in 24-hour clock format, HHMMSSd..d. HH is the numeric expression of the hour (00-23), MM is the numeric expression of the minute (00-59), SS is the numeric expression of the second (00-59), and d..d is the numeric expression of decimal seconds.
 - 4.3. Data element length (minimum/maximum)
5. Data elements utilized by Wal-Mart applications are noted in **bold** type.
6. Data elements ignored by Wal-Mart application are noted in *italicized type*.
7. Every data element utilized by Wal-Mart applications has the ANSI X12 data element purpose noted.

8. ID-type data elements have the list of utilized values noted.
9. **VICS comments relating to segments and data elements are noted in bold text with a shaded background.**
10. **Wal-Mart comments relating to segments and data elements are noted in underlined bold text with a shaded background.**

Example of Conventions

Segment: **N1** Name
Position: 0400
Loop: N1
Level: Heading
Usage: Mandatory
Max Use: 1
Purpose: To identify a party by type of organization, name, and code
Syntax Notes:

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

Semantic Notes:
Comments:

- 1 This segment, used alone, provides the most efficient method of providing organizational identification. To obtain this efficiency the "ID Code" (N104) must provide a key to the table maintained by the transaction processing party.
- 2 N105 and N106 further define the type of entity in N101.

Notes:

There must be at least one occurrence of the N1 segment in the header area to identify the sender of the transaction in text or coded format.

Wal-Mart uses the data in this segment to determine where to route the Ship Notice data so that receiving may be accomplished in an efficient manner. This is the "ship-to" of the entire shipment.

Data Element Summary							
	Ref. Des.	Data Element	Name		Attributes		
1	M	N101	98	Entity Identifier Code	M	ID 2/3	4.3
2				Code identifying an organizational entity, a physical location, property or an individual			4.2
3		N102	93	Name	X	AN 1/60	
				Free-form name			
		N103	66	Identification Code Qualifier	X	ID 1/2	
				Code designating the system/method of code structure used for Identification Code (67)			
				UL UCC/EAN Location Code			7
				A globally unique 13 digit code for the identification of a legal, functional or physical location within the Uniform Code Council (UCC) and International Article Number Association (EAN) numbering system			
5		N104	67	Identification Code	X	AN 2/80	
				Code identifying a party or other code			
1		N105	706	Entity Relationship Code	O	ID 2/2	
				Code describing entity relationship			
6		N106	98	Entity Identifier Code	O	ID 2/3	
				Code identifying an organizational entity, a physical location, property or an individual			

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NOTE: This change summary is included as a checklist only, to help ensure that all changes have been accounted for. It is not to be used as a complete implementation reference, as it does not include all of the necessary information.

<u>Segment/Element</u>	<u>Position</u>	<u>Data Element</u>	<u>Change</u>	<u>Qualifier</u>
MAN	D1950 Tare/Pack	88	Added	SI
LIN	D0200	234/235	Added	UK

Change History

Date	Version	Description of Changes
January, 2005	1.0	Production Guide Released
May, 2005	1.1	Corrected Document Formatting Errors Only