Wal-Mart Stores, Inc.
Electronic Data Interchange Implementation Guideline
ANSI X12 Version 5010

5
0
1
0

856 Ship Status/Manifest
Advance Ship Notice

Business Usage:
Pick and Pack Structure
Non-DSDC Shipments

EDI Direction: To Wal-Mart

Implementation Guide Version 1.0
Published January 2005
Last Updated January, 2005

Table of Contents

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 prevent 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 change into this 5010 upgrade.

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.

EPC Changes
In the EDI X12 version of the 856 document we have added additional MAN segments with an SI (Self Identifying Container via Radio Frequency ID Device). This information is needed to verify that the item is correctly aligned for RFID. This information will be used at a Wal-Mart facility to receive and track product being received in Business units with RFID readers.

How to contact the EDI Help Desk

For answers to any questions regarding this Implementation Guide; contact the EDI Help Desk at (479) 273-8888. You will need to select the option for the Traffic Logistics Team. Questions can also be communicated to the Help Desk using email. Any emails should be sent to **edi@wal-mart.com** (Please include your vendor number with any e-mails sent)

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

Heading:

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

Detail:

	Pos. No.	Seg. ID	Name	Req. Des.	Max.Use	Loop Repeat	Notes and Comments
			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		

	Pos. No.	Seg. ID	Name	Req. Des.	Max.Use	Loop Repeat	Notes and Comments
			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		

	Pos. No.	Seg. ID	Name	Req. Des.	Max.Use	Loop Repeat	Notes and Comments
			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		

	Pos. No.	Seg. ID	Name	Req. Des.	Max.Use	Loop Repeat	Notes and Comments
			LOOP ID - HL			200000	

	Pos. No.	Seg. ID	Name	Req. Des.	Max.Use	Loop Repeat	Notes and Comments
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		

	Pos. No.	Seg. ID	Name	Req. Des.	Max.Use	Loop Repeat	Notes and Comments
			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:

	Pos. No.	Seg. ID	Name	Req. Des.	Max.Use	Loop Repeat	Notes and Comments
	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 Ex: Pick and Pack Structure (TL)

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.** **20041015** is the **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** "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. **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 **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).
REF*CR*01149009	**CR** is the **Reference Identification Qualifier** "CR" indicates the Customer Reference Number (Wal-Mart Load Number). **01149009** 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". *Note: Prepaid Suppliers use the code "PP"*
N1*ST*WAL-MART STORES, INC.*UL*0078742035253	**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 the "Global Location Number (GLN)". **0078742035253** is the **Identification Code** (GLN).
N1*SF*SUPPLIER NAME	**SF** is the **Entity Identifier Code** (Ship From) **SUPPLIER NAME** is the **Name** of the Shipper.
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*1234567890*20041015**	**1234567890** is 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*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*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*P	**3** is the **Hierarchical ID Number**. **2** is the **Hierarchical Parent ID Number**. (Order) **P** is the **Hierarchical Level Code**. "P" indicates "Pack".
MAN*UC*10012345612312	**UC** is the **Marks and Numbers Qualifier**. "UC" indicates "U.P.C. Shipping Container Code". **10012345612312** is the **Marks and Numbers**.
HL*4*3*I	**4** is the **Hierarchical ID Number**. **3** is the **Hierarchical Parent ID Number**. (Pack) **I** is the **Hierarchical Level Code**. "I" indicates "Item".
LINUP*008815509183*IN*000512345*UK*0 0088155091838**	**UP** is the **Product/Service ID Qualifier**. "UP" indicates "UCC - 12". **008815509183** is the **Product/Service ID**. **IN** is the **Product/Service ID Qualifier**. "IN" indicates "Buyer's Item Number". **000512345** is the **Product/Service ID** (Wal-Mart Item Number). **UK** is the **Product/Service ID Qualifier.** "UK" indicates GTIN. **00088155091838** is the **Product/Service ID** (GTIN)
SN14*EA**	**4** is the **Number of Units Shipped**. **EA** is the **Unit or Basis for Measurement Code**. "CA" indicates "Case".
HL*5*3*I	**5** is the **Hierarchical ID Number**. **3** is the **Hierarchical Parent ID Number**. (Pack) **I** is the **Hierarchical Level Code**. "I" indicates "Item".
LINUP*008815547321*IN*000534567**	**UP** is the **Product/Service ID Qualifier**. "UP" indicates "UCC - 12".

	008815547321 is the **Product/Service ID**. **IN** is the **Product/Service ID Qualifier**. "IN" indicates "Buyer's Item Number". **000534567** is the **Product/Service ID** (Wal-Mart Item Number).
SN19*EA**	**9** is the **Number of Units Shipped**. **EA** is the **Unit or Basis for Measurement Code**. "EA" indicates "Each".
HL*6*3*I	**6** is the **Hierarchical ID Number**. **3** is the **Hierarchical Parent ID Number**. (Pack) **I** is the **Hierarchical Level Code**. "I" indicates "Item".
LINUP*008815547345*IN*000599884**	**UP** is the **Product/Service ID Qualifier**. "UP" indicates "UCC - 12". **008815547345** is the **Product/Service I**D. **IN** is the **Product/Service ID Qualifier**. "IN" indicates "Buyer's Item Number". **000599884** is the **Product/Service ID** (Wal-Mart Item Number).
SN18*EA**	**8** is the **Number of Units Shipped**. **EA** is the **Unit or Basis for Measurement Code**. "EA" indicates "Each".
HL*7*3*I	**7** is the **Hierarchical ID Number**. **3** is the **Hierarchical Parent ID Number**. (Pack) **I** is the **Hierarchical Level Code**. "I" indicates "Item".
LINUP*008815573214*IN*000556789**	**UP** is the **Product/Service ID Qualifier**. "UP" indicates "UCC - 12". **008815573214** is the **Product/Service ID**. **IN** is the **Product/Service ID Qualifier**. "IN" indicates "Buyer's Item Number". **123456789** is the **Product/Service ID** (Wal-Mart Item Number).
SN11*EA**	**1** is the **Number of Units Shipped**. **EA** is the **Unit or Basis for Measurement Code**. "EA" indicates "Each".
HL*8*1*O	**8** is the **Hierarchical ID Number**. **1** is the **Hierarchical Parent ID Number**. (Shipment) **O** is the **Hierarchical Level Code**. "O" indicates "Order".
PRF*9911884567*20041015**	**9911884567** is 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*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*00005	**DP** is the **Reference Identification Qualifier**. "DP" indicates "Department Number". **00005** is the **Reference Identification** (Wal-Mart Department Number).
REF*MR*0003	**MR** is the **Reference Identification Qualifier**. "MR" indicates "Merchandise Type Code". **0003** is the **Reference Identification** (Merchandise Type Code).
HL*9*8*P	**9** is the **Hierarchical ID Number**. **8** is the **Hierarchical Parent ID Number**. (Order) **P** is the **Hierarchical Level Code**. "P" indicates "Pack".
MAN*UC*1001234569871	**UC** is the **Marks and Numbers Qualifier**. "UC" indicates

	"U.P.C. Shipping Container Code (SCC-14)". **1001234569871** is the **Marks and Numbers** (SCC-14).
HL*10*9*I	**10** is the **Hierarchical ID Number**. **9** is the **Hierarchical Parent ID Number**. (Pack) **I** is the **Hierarchical Level Code**. "I" indicates "Item".
LININ*000522334**	**IN** is the **Product/Service ID Qualifier**. "IN" indicates "Buyer's Item Number". **000522334** is the **Product/Service ID** (Wal-Mart Item Number).
SN12*EA**	**2** is the **Number of Units Shipped**. **EA** is the **Unit or Basis for Measurement Code**. "EA" indicates "Each".
HL*11*9*I	**11** is the **Hierarchical ID Number**. **9** is the **Hierarchical Parent ID Number**. (Pack) **I** is the **Hierarchical Level Code**. "I" indicates "Item".
LINUP*008815501231**	**UP** is the **Product/Service ID Qualifier**. "UP" indicates "UCC - 12". **008815501231** is the **Product/Service ID**.
SN11*EA**	**1** is the **Number of Units Shipped**. **EA** is the **Unit or Basis for Measurement Code**. "EA" indicates "Each".
HL*12*9*I	**12** is the **Hierarchical ID Number**. **9** is the **Hierarchical Parent ID Number**. (Pack) **I** is the **Hierarchical Level Code**. "I" indicates "Item".
LININ*000554987**	**IN** is the **Product/Service ID Qualifier**. "IN" indicates "Buyer's Item Number". **321654987** is the **Product/Service ID** (Wal-Mart Item Number).
SN16*EA**	**6** is the **Number of Units Shipped**. **EA** is the **Unit or Basis for Measurement Code**. "EA" indicates "Each".
CTT*12	**12** is the **Number of Line Items** (number of HL segments in the document).
SE*53*0001	**53** is the **Number of Included Segments**. **0001** is the **Transaction Set Control Number**.

Business Ex: Pick and Pack Structure (TL with Multiple Orders per Pack)

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*****303949384832 34	**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". *Note: Prepaid Suppliers use the code "PP".*
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*0020	**MR** is the **Reference Identification Qualifier**. "MR" indicates "Merchandise Type Code". **0020** 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*P	**3** is the **Hierarchical ID Number**. **2** is the **Hierarchical Parent ID Number**. (Order) **P** is the **Hierarchical Level Code**. "P" indicates "Pack".
MAN*UC*10012345614785	**UC** is the **Marks and Numbers Qualifier**. "UC" indicates "U.P.C. Shipping Container Code (SCC-14)". **10012345614785** is the **Marks and Numbers** (SCC-14).
HL*4*3*I	**4** is the **Hierarchical ID Number**. **3** is the **Hierarchical Parent ID Number**. (Pack) **I** is the **Hierarchical Level Code**. "I" indicates "Item".
LINUP*008815509183**	**UP** is the **Product/Service ID Qualifier**. "UP" indicates "UCC-12" **008815509183** is the **Product/Service ID**.
SN14*EA**	**4** is the **Number of Units Shipped**. **EA** is the **Unit or Basis for Measurement Code**. "EA" indicates "Each".
HL*5*3*I	**5** is the **Hierarchical ID Number**. **3** is the **Hierarchical Parent ID Number**. (Pack) **I** is the **Hierarchical Level Code**. "I" indicates "Item".
LINUP*008815547321**	**UP** is the **Product/Service ID Qualifier**. "UP" indicates "UCC - 12". **008815547321** is the **Product/Service ID**.
SN19*EA**	**9** is the **Number of Units Shipped**. **EA** is the **Unit or Basis for Measurement Code**. "EA" indicates "Each".
HL*6*1*O	**6** is the **Hierarchical ID Number**. **1** is the **Hierarchical Parent ID Number**. (Shipment) **O** is the **Hierarchical Level Code**. "O" indicates "Order".
PRF*2288115555*20041015**	**2288115555** 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*0020	**MR** is the **Reference Identification Qualifier**. "MR" indicates "Merchandise Type Code". **0020** 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*7*6*P	**7** is the **Hierarchical ID Number**. **6** is the **Hierarchical Parent ID Number**. (Order) **P** is the **Hierarchical Level Code**. "P" indicates "Pack".
MAN*UC*10012378945698	**UC** is the **Marks and Numbers Qualifier**. "UC" indicates "U.P.C. Shipping Container Code (SCC-14)". **10012378945698** is the **Marks and Numbers** (SCC-14).
HL*8*7*I	**8** is the **Hierarchical ID Number**. **7** is the **Hierarchical Parent ID Number**. (Pack) **I** is the **Hierarchical Level Code**. "I" indicates "Item".
LINUP*008815509183**	**UP** is the **Product/Service ID Qualifier**. "UP" indicates "UCC - 12". **008815509183** is the **Product/Service ID**.
SN14*EA**	**4** is the **Number of Units Shipped**. **EA** is the **Unit or Basis for Measurement Code**. "EA" indicates "Each".
HL*9*7*I	**9** is the **Hierarchical ID Number**. **7** is the **Hierarchical Parent ID Number**. (Pack) **I** is the **Hierarchical Level Code**. "I" indicates "Item".
LINUP*008815547321**	**UP** is the **Product/Service ID Qualifier**. "UP" indicates "UCC - 12". **008815547321** is the **Product/Service ID**.
SN19*EA**	**9** is the **Number of Units Shipped**. **EA** is the **Unit or Basis for Measurement Code**. "EA" indicates "Each".
CTT*9	**9** is the **Number of Line Items** (number of HL segments in the document).
SE*44*0001	**44** is the **Number of Included Segments** in the transaction set including the ST and SE. **0001** is the **Transaction Set Control Number**.

Business Ex: Pick and Pack Structure (LTL)

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 **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**.
DTM*011*20041015	**011** is the **Date/Time Qualifier** "011" indicates "Date Shipped" **20041015** is the **Date** (Shipped)
FOB*PP	**PP** is the **Shipment Method of Payment**. "PP" Indicates "Prepaid (by Seller)". *Note: Collect Suppliers use the code "CC"*
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** "SF" indicates (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*3698527410*20041015**	**3698527410** is 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*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*00005	**DP** is the **Reference Identification Qualifier**. "DP" indicates "Department Number". **00005** is the **Reference Identification** (Wal-Mart Department Number).
REF*MR*0003	**MR** is the **Reference Identification Qualifier**. "MR" indicates "Merchandise Type Code". **0003** is the **Reference Identification** (Merchandise Type Code).
HL*3*2*P	**3** is the **Hierarchical ID Number**. **2** is the **Hierarchical Parent ID Number**. (Order) **P** is the **Hierarchical Level Code.** "P" indicates "Pack".
MAN*UC*1001231559874	**UC** is the **Marks and Numbers Qualifier**. "UC" indicates "U.P.C. Shipping Container Code (SCC-14)". **1001231559874** is the **Marks and Numbers** (SCC-14).
HL*4*3*I	**4** is the **Hierarchical ID Number**. **3** is the **Hierarchical Parent ID Number**. (Pack) **I** is the **Hierarchical Level Code**. "I" indicates "Item".
LINUP*008815509183*IN*000556789*UK* 00088155091838**	**UP** is the **Product/Service ID Qualifier**. "UP" indicates "UCC - 12". **008815509183** is the **Product/Service ID**. **IN** is the **Product/Service ID Qualifier**. "IN" indicates "Buyers Item Number". **000556789** is the **Product/Service ID** (Wal-Mart Item Number). **UK** is the **Product/Service ID Qualifier**. "UK" indicates "GTIN 14-digit Data Structure". **00088155091838** is the **Product/Service ID** (GTIN)
SN14*EA**	**4** is the **Number of Units Shipped**. **EA** is the **Unit or Basis for Measurement Code**. "EA" indicates "Each".
HL*5*3*I	**5** is the **Hierarchical ID Number**. **3** is the **Hierarchical Parent ID Number**. (Pack) **I** is the **Hierarchical Parent ID Number**. "I" indicates "Item".
LINUP*008815547321*IN*951159753**	**UP** is the **Product/Service ID Qualifier**. "UP" indicates "UCC - 12". **008815547321** is the **Product/Service ID**. **IN** is the **Product/Service ID Qualifier**. "IN" indicates "Buyers Item Number". **951159753** is the **Product/Service ID** (Wal-Mart Item Number).
SN19*EA**	**9** is the **Number of Units Shipped**. **EA** is the **Unit or Basis for Measurement Code**. "EA" indicates "Each".

CTT*5	**5** is the **Number of Line Items** (number of HL segments in the document).
SE*29*0001	**29** is the **Number of Included Segments**. **0001** is the **Transaction Set Control Number**.

Business Ex: Pick and Pack Structure (LTL with Multiple Orders per Pack)

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)". *Note: Collect Suppliers use the code "CC"*
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 Identific**ation (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*0020	**MR** is the **Reference Identification Qualifier**. "MR" indicates "Merchandise Type Code". **0020** is the **Reference Identification** (Merchandise Type Code).
HL*3*2*P	**3** is the **Hierarchical ID Number**. **2** is the **Hierarchical Parent ID Number**. (Order) **P** is the **Hierarchical Level Code**. "P" indicates "Pack".
MAN*UC*10012345612345	**UC** is the **Marks and Numbers Qualifier**. "UC" indicates "U.P.C. Shipping Container Code (SCC-14)". **10012345612345** is the **Marks and Numbers** (SCC-14).
HL*4*3*I	**4** is the **Hierarchical ID Number**. **3** is the **Hierarchical Parent ID Number**. (Pack) **I** is the **Hierarchical Level Code**. "I" indicates "Item".
LINUP*008815509183**	**UP** is the **Product/Service ID Qualifier**. "UP" indicates "UCC - 12". **008815509183** is the **Product/Service ID**.
SN14*EA**	**4** is the **Number of Units Shipped**. **EA** is the **Unit or Basis for Measurement Code**. "EA" indicates "Each".
HL*5*3*I	**5** is the **Hierarchical ID Number**. **3** is the **Hierarchical Parent ID Number**. (Pack) **I** is the **Hierarchical Level Code**. "I" indicates "Item".
LINUP*008815547321**	**UP** is the **Product/Service ID Qualifier**. "UP" indicates "UCC - 12". **008815547321** is the **Product/Service ID**.
SN19*EA**	**9** is the **Number of Units Shipped**. **EA** is the **Unit or Basis for Measurement Code**. "EA" indicates "Each".
HL*6*3*I	**6** is the **Hierarchical ID Number**. **3** is the **Hierarchical Parent ID Number**. (Pack) **I** is the **Hierarchical Level Code**. "I" indicates "Item".
LINUP*008815547345*UK*00088155473450**	**UP** is the **Product/Service ID Qualifier**. "UP" indicates "UCC - 12". **008815547345** is the **Product/Service ID** **UK** is the **Product/Service ID Qualifier.** "UK" indicates "GTIN 14-digit Data Structure" **00088155473450** is the **Product/Service ID**
SN18*EA**	**8** is the **Number of Units Shipped**. **EA** is the **Unit or Basis for Measurement Code**. "EA" indicates "Each".
HL*7*3*I	**7** is the **Hierarchical ID Number**.

	3 is the **Hierarchical Parent ID Number**. (Pack) **I** is the **Hierarchical Level Code**. "I" indicates "Item".
LIN****UP*****008815573214**	**UP** is the **Product/Service ID Qualifier**. "UP" indicates "UCC - 12". **008815573214** is the **Product/Service ID**.
SN1****1*****EA**	**1** is the **Number of Units Shipped**. **EA** is the **Unit or Basis for Measurement Code**. "EA" indicates "Each".
HL***8*****1*****O**	**8** is the **Hierarchical ID Number**. **1** is the **Hierarchical Parent ID Nu**mber. (Shipment) **O** is the **Hierarchical Level Code**. "O" indicates "Order".
PRF***7777889900*******20041015**	**7777889900** 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*****0033**	**MR** is the **Reference Identification Qualifier**. "MR" indicates "Merchandise Type Code". **0033** is the **Reference Identification** (Merchandise Type Code).
HL***9*****8*****P**	**9** is the **Hierarchical ID Number**. **8** is the **Hierarchical Parent ID Number**. (Pack) **P** is the **Hierarchical Level Code**. "P" indicates "Pack".
MAN***UC*****10012345612345**	**UC** is the **Marks and Numbers Qualifier**. "UC" indicates "U.P.C. Shipping Container Code (SCC-14)". **10012345612345** is the **Marks and Numbers** (SCC-14).
HL***10*****9*****I**	**10** is the **Hierarchical ID Number**. **9** is the **Hierarchical Parent ID Number**. (Pack) **I** is the **Hierarchical Level Code**. "I" indicates "Item".
LIN****UP*****008815509183**	**UP** is the **Product/Service ID Qualifier**. "UP" indicates "UCC - 12". **008815509183** is the **Product/Service ID**.
SN1****4*****EA**	**4** is the **Number of Units Shi**pped. **EA** is the **Unit or Basis for Measurement Code**. "EA" indicates "Each".
HL***11*****9*****I**	**11** is the **Hierarchical ID Number**. **9** is the **Hierarchical Parent ID Nu**mber. (Pack) **I** is the **Hierarchical Level Code**. "I" indicates "Item".
LIN****UP*****008815547321**	**UP** is the **Product/Service ID Qualifier**. "UP" indicates "UCC - 12". **008815547321** is the **Product/Service ID**.
SN1****9*****EA**	**9** is the **Number of Units Shipped**. **EA** is the **Unit or Basis for Measurement Code**. "EA" indicates "Each".
CTT***11**	**11** is the **Number of Line Items** (number of HL segments in the document).
SE***48*****0001**	**48** is the **Number of Included Segments**. **0001** is the **Transaction Set Control Number**.

Business Ex: Pick and Pack 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"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 that this is pick and pack structure.
HL*1**S	**1** is **Hierarchical ID Number**. **S** is the **Hierarchical Level Code**. This HL is the first HL used, and has no parent to identify.
TD1******G*82*LB	**G** is the **Weight Qualifier**. "G" indicates gross weight. **82** is the **Weight** (Gross). **LB** is the **Unit or Basis for Measurement Code**. "LB" indicates "Pound".
TD5*B*2*USPS*U	**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)". **USPS** is the **Identification Code** (SCAC). Indicates the carrier United States Parcel Services (USPS). **U** is the **Transportation Method/Type Code**. "U" indicates "Private Parcel Service".
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*011*20041015	**011** is the **Date/Time Qualifier** "011" indicates "Date Shipped" **20041015** is the **Date** (Shipped)
FOB*PP	**PP** is the **Shipment Method of Payment**. "PP" Indicates "Prepaid (by Seller)". *Note: Collect Suppliers use the code "CC"*
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*3698527410***20041015	**3698527410** is 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*0003	**MR** is the **Reference Identification Qualifier**. "MR" indicates "Merchandise Type Code". **0003** 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*P	**3** is the **Hierarchical ID Number**. **2** is the **Hierarchical Parent ID Number**. (Order) **P** is the **Hierarchical Level Code.** "P" indicates "Pack".
MAN*UC*1001231559874	**UC** is the **Marks and Numbers Qualifier**. "UC" indicates "U.P.C. Shipping Container Code (SCC-14)". **1001231559874** is the **Marks and Numbers** (SCC-14).
MAN*CP*881550007125024	**CP** is the **Marks and Numbers Qualifier**. "CP" indicates "Carrier-Assigned Package ID Number". **881550007125024** is the **Marks and Numbers** (Package Number)
HL*4*3*I	**4** is the **Hierarchical ID Number**. **3** is the **Hierarchical Parent ID Number**. (Pack) **I** is the **Hierarchical Level Code**. "I" indicates "Item".
LINUP*008815509183**	**UP** is the **Product/Service ID Qualifier**. "UP" indicates "UCC - 12". **008815509183** is the **Product/Service ID**.
SN14*EA**	**4** is the **Number of Units Shipped**. **EA** is the **Unit or Basis for Measurement Code**. "EA" indicates "Each".
HL*5*3*I	**5** is the **Hierarchical ID Number**. **3** is the **Hierarchical Parent ID Number**. (Pack) **I** is the **Hierarchical Parent ID Number**. "I" indicates "Item".
LINUP*008815547321**	**UP** is the **Product/Service ID Qualifier**. "UP" indicates "UCC - 12". **008815547321** is the **Product/Service ID**.
SN19*EA**	**9** is the **Number of Units Shipped**. **EA** is the **Unit or Basis for Measurement Code**. "EA" indicates "Each".
CTT*5	**5** is the **Number of Line Items** (number of HL segments in the document).
SE*28*0001	**28** is the **Number of Included Segments**. **0001** is the **Transaction Set Control Number**.

Business Ex: Pick and Pack Structure (Small Packages with Multiple Orders per Pack)

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**. **20041015** is the **Document Creation Date**. **1345** is the **Time.** **0001** is the **Hierarchical Structure Code**. "0001" indicates that this is pick and pack structure.
HL*1**S	**1** is the **Hierarchical ID Number**. **S** indicates **Hierarchical Level Code**. This HL is the first HL used, and has no parent to identify.
TD1******G*25*LB	**G** is the **Weight Qualifier**. "G" indicates gross weight. **25** is the **Weight** (Gross). **LB** is the **Unit or Basis for Measurement Code**. "LB" indicates "Pound".
TD5*B*2*USPS*U	**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)". **USPS** is the **Identification Code** (SCAC). Indicates the carrier United States Parcel Services (USPS). **U** is the **Transportation Method/Type Code**. "U" indicates "Private Parcel Service".
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 Carrier Pro/Tracking #. **082131** is the **Reference Identification** (PRO number.)
DTM*011*20041015	**011** is the **Date/Time Qualifier** "011" indicates the "Date Shipped" **20041015** is the **Date** (Shipped)
FOB*PP	**PP** is the **Shipment Method of Payment**. "PP" Indicates "Prepaid (by Seller)". *Note: Collect Suppliers use the code "CC"*
N1*ST*WAL-MART STORES, INC.*UL*0605388001696	**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)". **0605388001696** 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*1234567890***20041015	**1234567890** is 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*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*00005	**DP** is the **Reference Identification Qualifier**. "DP" indicates "Department Number". **00005** is the **Reference Identification** (Wal-Mart Department Number).
REF*MR*0020	**MR** is the **Reference Identification Qualifier**. "MR" indicates "Merchandise Type Code". **0020** is the **Reference Identification** (Merchandise Type Code).
HL*3*2*P	**3** is the **Hierarchical ID Number**. **2** is the **Hierarchical Parent ID Number**. (Order) **P** is the **Hierarchical Level Code**. "P" indicates "Pack".
MAN*UC*10012345612345	**UC** is the **Marks and Numbers Qualifier**. "UC" indicates "U.P.C. Shipping Container Code". **10012345612345** is the **Marks and Numbers**.
MAN*CP*881550007125024	**CP** is the **Marks and Numbers Qualifier**. "CP" indicates "Carrier-Assigned Package ID Number **881550007125024** is the **Marks and Numbers** (SSCC-18).
HL*4*3*I	**4** is the **Hierarchical ID Number**. **3** is the **Hierarchical Parent ID Number**. (Pack) **I** is the **Hierarchical Level Code**. "I" indicates "Item".
LINUP*008815509183*UK*00088155091838**	**UP** is the **Product/Service ID Qualifier**. "UP" indicates "UCC - 12". **008815509183** is the **Product/Service ID**. **UK** is the **Product/Service ID Qualifier.** "UK" indicates GTIN **00088155091838** is the **Product/Service ID**.
SN14*CA**	**4** is the **Number of Units Shipped**. **CA** is the **Unit or Basis for Measurement Code**. "CA" indicates "Cases".
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*0123456789*20041015**	**0123456789** is 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*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*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*CN*082132	**CN** is the **Reference Identification** Qualifier "CN" indicates the Carrier PRO Tracking Number. **082132** is the **Reference Identification** (Pro Tracking Number).
HL*6*5*P	**6** is the **Hierarchical ID Number**. **5** is the **Hierarchical Parent ID Number**. (Order) **P** is the **Hierarchical Level Code**. "P" indicates "Pack".
MAN*UC*10012345612345	**UC** is the **Marks and Numbers Qualifier**. "UC" indicates "U.P.C. Shipping Container Code (SCC-14)". **10012345612345** is the **Marks and Number** (SCC-14).
MAN*CP*881550007125024	**CP** is the **Marks and Numbers Qualifier**. "CP" indicates "Carrier-Assigned Package ID Number **881550007125024** is the **Marks and Number** (SSCC-18).
HL*7*6*I	**7** is the **Hierarchical ID Number**. **6** is the **Hierarchical Parent ID Number**. (Pack) **I** is the **Hierarchical Level Code**. "I" indicates "Item".
LINUP*000554987**	**UP** is the **Product/Service ID Qualifier**. "UP" indicates "UCC - 12". **000554987** is the **Product/Service ID**.
SN14*EA**	**4** is the **Number of Units Shipped**. **EA** is the **Unit or Basis for Measurement Code**. "EA" indicates "Each".
CTT*7	**7** is the **Number of Line Items** (number of HL segments in the document).
SE*38*0001	**38** is the **Number of Included Segments**. **0001** is the **Transaction Set Control Number**.

Business Ex: Pick and Pack Structure (TL Shipping Container same as Consumer Unit)

EDI TRANSMISSION DATA	EXPLANATION
ST*856*0001	**856** is the **Transaction Set Identifier Code**. "856" Indicates the transaction type. **0001** is the **Transaction Set Control Number.** This indicates the number of transactions.
BSN*00*01140824*20041015*1345*0001	**00** is the **Transaction Set Purpose Code**. "00" indicates Original**.** **01140824** is the **Shipment Identification**. **20041015** is the **Document Creation Date**. **1345** is the **Time.** **0001** is the **Hierarchical Structure Code**. "0001" indicates that this is pick and pack structure.
HL*1**S	**1** is the **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	**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".
TD5**2*JBHT*M	**2** is the **Identification Code Qualifier**. "2" indicates "Standard Carrier Alpha Code (SCAC)". **JBHT** is the **Identification Code** (SCAC). Indicates the carrier. **M** is the **Transportation Method/Type Code**. "M" indicates "Motor (common carrier)".
TD3*TL*AB23*07213567******303949384832 34	**TL** is the **Equipment Description Code**. "TL" indicates Trailer. **AB23** 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*AO*567845660	**AO** is the **Reference Identification Qualifier** "AO" indicates "Receiver's Appointment Number" **567845660** 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**.
DTM*011*20041015	**011** is the **Date/Time Qualifier** "011" indicates the "Date Shipped" **20041015** is the **Date** (Shipped)
FOB*PP	**PP** is the **Shipment Method of Payment**. "PP" Indicates

	"Prepaid (by Seller)". *Note: Collect Suppliers use the code "CC"*
N1*ST*WAL-MART STORES, INC.*UL*0078742035253	**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)". **0078742035253** 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*1478523690*20041015**	**1478523690** is 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*P	**3** is the **Hierarchical ID Number**. **2** is the **Hierarchical Parent ID Number**. (Order) **P** is the **Hierarchical Level Code**. "P" indicates "Pack".
MAN*UP*008815509183	**UP** is the **Marks and Numbers Qualifier**. "UP" indicates "UCC-12" **008815509183** is the **Marks and Numbers**
HL*4*3*I	**4** is the **Hierarchical ID Number**. **3** is the **Hierarchical Parent ID Number**. (Pack) **I** is the **Hierarchical Level Code**. "I" indicates "Item".
LINUP*008815509183*UK*00088155091838**	**UP** is the **Product/Service ID Qualifier**. "UP" indicates "UCC - 12". **008815509183** is the **Product/Service ID.** **UK** is the **Product/Service ID Qualifier** "UK" indicates "GTIN 14-digit Data Structure" **00088155091838** is the **Product/Service ID**
SN14*CA**	**4** is the **Number of Units Shipped**. **CA** is the **Unit or Basis for Measurement Code**. "CA" indicates "Cases".
HL*5*2*P	**5** is the **Hierarchical ID Number**. **2** is the **Hierarchical Parent ID Number**. (Order) **P** is the **Hierarchical Level Code**. "P" indicates "Pack".
MAN*UP*008815547321	**UP** is the **Marks and Numbers Qualifier**. "UP" indicates "U.P.C. Consumer Package Code {1-5-5-1} **008815547321** is the **Marks and Numbers**
HL*6*5*I	**6** is the **Hierarchical ID Number**. **5** is the **Hierarchical Parent ID Number.** (Pack) **I** is the **Hierarchical Level Code**. "I" indicates "Item".
LINUP*008815547321**	**UP** is the **Product/Service ID Qualifier**. "UP" indicates "UCC - 12".

	008815547321 is the Product/Service ID.
SN1**9*EA	9 is the Number of Units Shipped. EA is the Unit or Basis for Measurement Code. "EA" indicates "Each".
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			

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

	Ref. Des.	Data Element	Name		Attributes	
M	ST01	143	**Transaction Set Identifier Code**	M	1	ID 3/3
			Code uniquely identifying a Transaction Set			
			856 Ship Notice/Manifest			
M	ST02	329	**Transaction Set Control Number**	M	1	AN 4/9
			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.			
	ST03	*1705*	*Implementation Convention Reference*	*O*	*1*	*AN 1/35*
			Reference assigned to identify Implementation Convention			

Segment:		**BSN** Beginning Segment for Ship Notice				

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:

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes		
M	**BSN01**	**353**	**Transaction Set Purpose Code**	**M**	**1**	**ID 2/2**
			Code identifying purpose of transaction set			
			00 Original			
M	**BSN02**	**396**	**Shipment Identification**	**M**	**1**	**AN 2/30**
			A unique control number assigned by the original shipper to identify a specific shipment			
M	**BSN03**	**373**	**Date**	**M**	**1**	**DT 8/8**
			Date expressed as CCYYMMDD where CC represents the first two digits of the calendar year			
M	**BSN04**	**337**	**Time**	**M**	**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)			
	BSN05	**1005**	**Hierarchical Structure Code**	**O**	**1**	**ID 4/4**
			Code indicating the hierarchical application structure of a transaction set that utilizes the HL segment to define the structure of the transaction set			
			This element is required by Wal-Mart Stores, Inc.			
			0001 Shipment, Order, Packaging, Item			
			Pick and Pack Structure			
	BSN06	*640*	*Transaction Type Code*	*X*	*1*	*ID 2/2*
			Code specifying the type of transaction			
	BSN07	*641*	*Status Reason Code*	*O*	*1*	*ID 3/3*
			Code indicating the status reason			

Segment:	**HL** Hierarchical Level - Shipment		
Position:	0100		
Loop:	HL		
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.		

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes		
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			
			The value for this level (shipment) is 1.			
	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			
M	**HL03**	**735**	**Hierarchical Level Code**	**M**	**1**	**ID 1/2**
			Code defining the characteristic of a level in a hierarchical structure			
			S Shipment			
	HL04	*736*	*Hierarchical Child Code*	*O*	*1*	*ID 1/1*
			Code indicating if there are hierarchical child data segments subordinate to the level being described			

Segment:	**TD1** Carrier Details (Quantity and Weight)
Position:	1100
Loop:	HL
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

Ref. Des.	Data Element	Name		Attributes		
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

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
25	Corrugated or Solid
71	Not Otherwise Specified
76	Paper
94	Wood

Ref. Des.	Data Element	Name		Attributes		
TD102	**80**	Carton		**X**	**1**	**N0 1/7**

Number of units (pieces) of the lading commodity

The number of packages in the shipment as described in TD101

Ref. Des.	Data Element	Name		Attributes		
TD103	*23*	*Commodity Code Qualifier*		*O*	*1*	*ID 1/1*

Code identifying the commodity coding system used for Commodity Code

| *TD104* | *22* | *Commodity Code* | | *X* | *1* | *AN 1/30* |

Code describing a commodity or group of commodities

| *TD105* | *79* | *Lading Description* | | *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
Level: Detail
Usage: Optional
Max Use: 12
Purpose: To specify the carrier and sequence of routing and provide transit time information

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

When using a small package service provider as the carrier, TD502 will contain code 2, TD503 will contain the carrier's SCAC, and TD504 will contain code U to inform the receiver of a small package service shipment.
This segment is required by Wal-Mart Stores, Inc.

Data Element Summary

Ref. Des.	Data Element	Name		Attributes	
TD501	133	**Routing Sequence Code**	O	1	ID 1/2
		Code describing the relationship of a carrier to a specific shipment movement			
		B Origin/Delivery Carrier (Any Mode)			
TD502	66	**Identification Code Qualifier**	X	1	ID 1/2
		Code designating the system/method of code structure used for Identification Code (67)			
		2 Standard Carrier Alpha Code (SCAC)			
TD503	67	**Identification Code**	X	1	AN 2/80
		Code identifying a party or other code			
TD504	91	**Transportation Method/Type Code**	X	1	ID 1/2
		Code specifying the method or type of transportation for the shipment			
		A Air			
		AE Air Express			
		BU Bus			
		C Consolidation			
		CE Customer Pickup / Customer's Expense			
		D Parcel Post			
		E Expedited Truck			
		H Customer Pickup			
		L Contract Carrier			

	M	Motor (Common Carrier)			
	R	Rail			
	S	Ocean			
	T	Best Way (Shippers Option)			
	U	Private Parcel Service			

TD505   *387*   *Routing*   *X*   *1*   *AN 1/35*

Free-form description of the routing or requested routing for shipment, or the originating carrier's identity

TD506   *368*   *Shipment/Order Status Code*   *X*   *1*   *ID 2/2*

Code indicating the status of an order or shipment or the disposition of any difference between the quantity ordered and the quantity shipped for a line item or transaction

TD507   *309*   *Location Qualifier*   *O*   *1*   *ID 1/2*

Code identifying type of location

TD508   *310*   *Location Identifier*   *X*   *1*   *AN 1/30*

Code which identifies a specific location

TD509   *731*   *Transit Direction Code*   *O*   *1*   *ID 2/2*

The point of origin and point of direction

TD510   *732*   *Transit Time Direction Qualifier*   *O*   *1*   *ID 2/2*

Code specifying the value of time used to measure the transit time

TD511   *733*   *Transit Time*   *X*   *1*   *R 1/4*

The numeric amount of transit time

TD512   *284*   *Service Level Code*   *X*   *1*   *ID 2/2*

Code indicating the level of transportation service or the billing service offered by the transportation carrier

TD513   *284*   *Service Level Code*   *X*   *1*   *ID 2/2*

Code indicating the level of transportation service or the billing service offered by the transportation carrier

TD514   *284*   *Service Level Code*   *O*   *1*   *ID 2/2*

Code indicating the level of transportation service or the billing service offered by the transportation carrier

TD515   *26*   *Country Code*   *O*   *1*   *ID 2/3*

Code identifying the country

Segment: **TD3** Carrier Details (Equipment)
Position: 1300
Loop: HL-TD3
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 is required by Wal-Mart Stores, Inc for all truckload shipments.

<div align="center">

Data Element Summary

</div>

Ref. Des.	Data Element	Name	Attributes		
TD301	**40**	**Equipment Description Code**	**X**	**1**	**ID 2/2**
		Code identifying type of equipment used for shipment			
		TL Trailer (not otherwise specified)			
TD302	**206**	**Equipment Initial**	**O**	**1**	**AN 1/4**
		Prefix or alphabetic part of an equipment unit's identifying number			
TD303	**207**	**Equipment Number**	**X**	**1**	**AN 1/15**
		Sequencing or serial part of an equipment unit's identifying number (pure numeric form for equipment number is preferred)			
TD304	*187*	*Weight Qualifier*	*O*	*1*	*ID 1/2*
		Code defining the type of weight			
TD305	*81*	*Weight*	*X*	*1*	*R 1/10*
		Numeric value of weight			
TD306	*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			
TD307	*102*	*Ownership Code*	*O*	*1*	*ID 1/1*
		Code indicating the relationship of equipment to carrier or ownership of equipment			
TD308	*407*	*Seal Status Code*	*O*	*1*	*ID 2/2*
		Code indicating condition of door seal upon arrival			
TD309	**225**	**Seal Number**	**O**	**1**	**AN 2/15**
		Unique number on seal used to close a shipment			
TD310	*24*	*Equipment Type*	*X*	*1*	*ID 4/4*
		Code identifying equipment type			

Segment:	**REF** Reference Information			

Position: 1500
Loop: HL
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: Wal-Mart Stores, Inc. requires the Bill of Lading number for all truckload and less than truckload shipments.

Data Element Summary

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

Segment:	**REF** Reference Information		

Position: 1500
Loop: HL
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. Des.	Data Element	Name		Attributes	
M	REF01	128	**Reference Identification Qualifier**	M	1	ID 2/3
			Code qualifying the Reference Identification			
			CN Carrier's Reference Number (PRO/Invoice)			
	REF02	127	**Reference Identification**	X	1	AN 1/50
			Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier			
	REF03	352	*Description*	*X*	*1*	*AN 1/80*
			A free-form description to clarify the related data elements and their content			
	REF04	C040	*Reference Identifier*	*O*	*1*	
			To identify one or more reference numbers or identification numbers as specified by the Reference Qualifier			
	C04001	128	*Reference Identification Qualifier*	*M*		*ID 2/3*
			Code qualifying the Reference Identification			
	C04002	127	*Reference Identification*	*M*		*AN 1/50*
			Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier			
	C04003	128	*Reference Identification Qualifier*	*X*		*ID 2/3*
			Code qualifying the Reference Identification			
	C04004	127	*Reference Identification*	*X*		*AN 1/50*
			Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier			
	C04005	128	*Reference Identification Qualifier*	*X*		*ID 2/3*
			Code qualifying the Reference Identification			
	C04006	127	*Reference Identification*	*X*		*AN 1/50*
			Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier			

Segment:	**REF** Reference Information				

Segment: **REF** Reference Information
Position: 1500
Loop: HL
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. for all truckload (TL) and less-than truckload (LTL) collect shipment s(FOB*CC) small package, collect shipments are not assigned a Wal-Mart Load Number.**

Data Element Summary

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

				Segment:	**REF** Reference Information

Segment: **REF** Reference Informati on
Position: 1500
Loop: HL
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 pre-paid (FOB*PP) truckload and less-than truckload shipments. The shipper must schedule an appointment before the shipment date and place the appointment number here that concurs with the DTM 067, where the date and time must be sent.**

Data Element Summary

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

Segment:	**MAN** Marks and Numbers Information			

Position:	1900
Loop:	HL
Level:	Detail
Usage:	Optional
Max Use:	>1
Purpose:	To indicate identifying marks and numbers for shipping containers
Syntax Notes:	1 If either MAN04 or MAN05 is present, then the other is required.
	2 If MAN06 is present, then MAN05 is required.
Semantic Notes:	1 MAN01/MAN02 and MAN04/MAN05 may be used to identify two different marks and numbers assigned to the same physical container.
	2 When both MAN02 and MAN03 are used, MAN02 is the starting number of a sequential range and MAN03 is the ending number of that range.
	3 When both MAN05 and MAN06 are used, MAN05 is the starting number of a sequential range, and MAN06 is the ending number of that range.
Comments:	1 When MAN01 contains code "UC" (U.P.C. Shipping Container Code) and MAN05/MAN06 contain a range of ID numbers, MAN03 is not used. The reason for this is that the U.P.C. Shipping Container code is the same on every carton that is represented in the range in MAN05/MAN06.
	2 MAN03 and/or MAN06 are only used when sending a range(s) of ID numbers. When both MAN02/MAN03 and MAN05/MAN06 are used to send ranges of ID numbers, the integrity of the two ID numbers must be maintained.
Notes:	**This segment, at the shipment level, is used to specify a single UCC/EAN-128 Serial Shipping Container Code (SSCC-18) to identify an entire shipment (full trailer).**

Data Element Summary

	Ref. Des.	Data Element	Name		Attributes	
M	MAN01	88	**Marks and Numbers Qualifier**	M	1	ID 1/2
			Code specifying the application or source of Marks and Numbers (87)			
			AA	SSCC-18		
				This is an eighteen-character UCC/EAN-128 Serial Shipping Container Code (SSCC-18) that does not include the two digit application identifier, the symbology code, or the modulo 103 check character.		
			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	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:	**DTM** Date/Time Reference			

Segment: **DTM** Date/Time Reference

Position: 2000
Loop: HL
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 (including both the appointment date and time) is required for all pre-paid (FOB*PP) truckload (TL) and less-than-truckload (LTL) shipments & corresponds to the appointment number sent in the REF*AO.**

Data Element Summary

	Ref. Des.	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				
			067 Current Schedule Delivery				
	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: # DTM Date/Time Reference

Position: 2000
Loop: HL
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:

Data Element Summary

	Ref. Des.	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

011	Shipped
068	Current Schedule Ship

	Ref. Des.	Data Element	Name	Attributes		
	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:	**FOB** F.O.B. Related Instructions
	Position:	2100
	Loop:	HL
	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	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			
	FOB03	352	*Description*	O	1	AN 1/80
			A free-form description to clarify the related data elements and their content			
	FOB04	334	*Transportation Terms Qualifier Code*	O	1	ID 2/2
			Code identifying the source of the transportation terms			
	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
			Code identifying type of location			
	FOB07	352	*Description*	O	1	AN 1/80
			A free-form description to clarify the related data elements and their content			
	FOB08	54	*Risk of Loss Code*	O	1	ID 2/2
			Code specifying where responsibility for risk of loss passes			
	FOB09	352	*Description*	X	1	AN 1/80
			A free-form description to clarify the related data elements and their content			

			Segment:	**N1** Party Identification

Segment: **N1** Party Identification

Position: 2200
Loop: HL-N1
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: **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.**

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

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes		
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

	Ref. Des.	Data Element	Name	Attributes		
	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

Code describing entity relationship

	N106	98	*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: HL-N1
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: **This segment is required by Wal-Mart Stores, Inc. and should only reference the point of origin of the shipment.**

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes		
M	N101	98	**Entity Identifier Code**	M	1	ID 2/3
			Code identifying an organizational entity, a physical location, property or an individual			
			SF Ship From			
	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)			
	N104	67	*Identification Code*	X	1	AN 2/80
			Code identifying a party or other code			
	N105	706	*Entity Relationship Code*	O	1	ID 2/2
			Code describing entity relationship			
	N106	98	*Entity Identifier Code*	O	1	ID 2/3
			Code identifying an organizational entity, a physical location, property or an individual			

Segment:	**HL** Hierarchical Level - Order		
Position:	0100		
Loop:	HL		
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. Des.	Data Element	Name	Attributes		
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 shipment level HL segment, as appropriate to the transaction set structure.			
M	**HL03**	**735**	**Hierarchical Level Code**	**M**	**1**	**ID 1/2**
			Code defining the characteristic of a level in a hierarchical structure			
			O Order			
	HL04	*736*	*Hierarchical Child Code*	*O*	*1*	*ID 1/1*
			Code indicating if there are hierarchical child data segments subordinate to the level being described			

Segment:	**PRF** Purchase Order Reference					

Segment: **PRF** Purchase Order Reference

Position:	0500
Loop:	HL
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**	**M**	**1**	**AN 1/22**
			Identifying number for Purchase Order assigned by the orderer/purchaser			
			Retailer's original purchase order number			
	PRF02	328	*Release Number*	*O*	*1*	*AN 1/30*
			Number identifying a release against a Purchase Order previously placed by the parties involved in the transaction			
	PRF03	327	*Change Order Sequence Number*	*O*	*1*	*AN 1/8*
			Number assigned by the orderer identifying a specific change or revision to a previously transmitted transaction set			
	PRF04	**373**	**Date**	**O**	**1**	**DT 8/8**
			Date expressed as CCYYMMDD where CC represents the first two digits of the calendar year			
			Retailer's original purchase order date			
	PRF05	350	*Assigned Identification*	*O*	*1*	*AN 1/20*
			Alphanumeric characters assigned for differentiation within a transaction set			
	PRF06	367	*Contract Number*	*O*	*1*	*AN 1/30*
			Contract number			
	PRF07	92	*Purchase Order Type Code*	*O*	*1*	*ID 2/2*
			Code specifying the type of Purchase Order			

		Segment:	**REF** Reference Information

Segment: **REF** Reference Information

Position: 1500
Loop: HL
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. Des.	Data Element	Name		Attributes	
M	REF01	128	**Reference Identification Qualifier**	M	1	ID 2/3
			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	**Reference Identification**	X	1	AN 1/50
			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 vendor number.			
	REF03	352	*Description*	X	1	AN 1/80
			A free-form description to clarify the related data elements and their content			
	REF04	C040	*Reference Identifier*	O	1	
			To identify one or more reference numbers or identification numbers as specified by the Reference Qualifier			
	C04001	128	*Reference Identification Qualifier*	M		ID 2/3
			Code qualifying the Reference Identification			
	C04002	127	*Reference Identification*	M		AN 1/50
			Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier			
	C04003	128	*Reference Identification Qualifier*	X		ID 2/3
			Code qualifying the Reference Identification			
	C04004	127	*Reference Identification*	X		AN 1/50
			Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier			
	C04005	128	*Reference Identification Qualifier*	X		ID 2/3
			Code qualifying the Reference Identification			
	C04006	127	*Reference Identification*	X		AN 1/50
			Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier			

Segment:	**REF** Reference Information			

Position: 1500
Loop: HL
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:

Data Element Summary

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

			Segment:	**REF** Reference Information

Segment: **REF** Reference Information

Position: 1500
Loop: HL
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

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

	Segment:	**REF** Reference Information

Segment: **REF** Reference Information

Position: 1500
Loop: HL
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

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

Segment:		**HL** Hierarchical Level - Shipping Tare			
Position:		0100			
Loop:		HL			
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. Des.	Data Element	Name		Attributes		
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 shipment level HL segment as appropriate to the transaction set structure.				
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*	*Hierarchical Child Code*		*O*	*1*	*ID 1/1*
			Code indicating if there are hierarchical child data segments subordinate to the level being described				

Segment:		**MAN** Marks and Numbers Information				

Segment: **MAN** Marks and Numbers Information

Position: 1900
Loop: HL
Level: Detail
Usage: Optional
Max Use: >1
Purpose: To indicate identifying marks and numbers for shipping containers
Syntax Notes:
   1   If either MAN04 or MAN05 is present, then the other is required.
   2   If MAN06 is present, then MAN05 is required.
Semantic Notes:
   1   MAN01/MAN02 and MAN04/MAN05 may be used to identify two different marks and numbers assigned to the same physical container.
   2   When both MAN02 and MAN03 are used, MAN02 is the starting number of a sequential range and MAN03 is the ending number of that range.
   3   When both MAN05 and MAN06 are used, MAN05 is the starting number of a sequential range, and MAN06 is the ending number of that range.
Comments:
   1   When MAN01 contains code "UC" (U.P.C. Shipping Container Code) and MAN05/MAN06 contain a range of ID numbers, MAN03 is not used. The reason for this is that the U.P.C. Shipping Container code is the same on every carton that is represented in the range in MAN05/MAN06.
   2   MAN03 and/or MAN06 are only used when sending a range(s) of ID numbers. When both MAN02/MAN03 and MAN05/MAN06 are used to send ranges of ID numbers, the integrity of the two ID numbers must be maintained.
Notes: **When the tare level is used, one occurence of the MAN segment containing the U.P.C. Shipping Container Code (SCC-14) is required.**

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	SSCC-18			
				This is an eighteen-character UCC/EAN-128 Serial Shipping Container Code (SCC-18) that does not include the two digit application identifier, the symbology code, or the modulo 103 check character.			
			SM	Shipper Assigned			
			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	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:	**MAN** Marks and Numbers Information

Segment: **MAN** Marks and Numbers Information
Position: 1950
Loop: HL
Level: Detail
Usage: Optional
Max Use: 1
Purpose: To indicate identifying marks and numbers for shipping containers
Syntax Notes: 1 If either MAN04 or MAN05 is present, then the other is required.
  2 If MAN06 is present, then MAN05 is required.
Semantic Notes: 1 MAN01/MAN02 and MAN04/MAN05 may be used to identify two different marks and numbers assigned to the same physical container.
  2 When both MAN02 and MAN03 are used, MAN02 is the starting number of a sequential range and MAN03 is the ending number of that range.
  3 When both MAN05 and MAN06 are used, MAN05 is the starting number of a sequential range, and MAN06 is the ending number of that range.
Comments: 1 When MAN01 contains code "UC" (U.P.C. Shipping Container Code) and MAN05/MAN06 contain a range of ID numbers, MAN03 is not used. The reason for this is that the U.P.C. Shipping Container code is the same on every carton that is represented in the range in MAN05/MAN06.
  2 MAN03 and/or MAN06 are only used when sending a range(s) of ID numbers. When both MAN02/MAN03 and MAN05/MAN06 are used to send ranges of ID numbers, the integrity of the two ID numbers must be maintained.

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)			
		SI	Self-Identifying Container via Radio Frequency ID Device			
			Inbound containers that do not need manual routing			
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:		**MAN** Marks and Numbers Information		

Segment:	**MAN** Marks and Numbers Information
Position:	1900
Loop:	HL
Level:	Detail
Usage:	Optional
Max Use:	>1
Purpose:	To indicate identifying marks and numbers for shipping containers
Syntax Notes:	1 If either MAN04 or MAN05 is present, then the other is required.
	2 If MAN06 is present, then MAN05 is required.
Semantic Notes:	1 MAN01/MAN02 and MAN04/MAN05 may be used to identify two different marks and numbers assigned to the same physical container.
	2 When both MAN02 and MAN03 are used, MAN02 is the starting number of a sequential range and MAN03 is the ending number of that range.
	3 When both MAN05 and MAN06 are used, MAN05 is the starting number of a sequential range, and MAN06 is the ending number of that range.
Comments:	1 When MAN01 contains code "UC" (U.P.C. Shipping Container Code) and MAN05/MAN06 contain a range of ID numbers, MAN03 is not used. The reason for this is that the U.P.C. Shipping Container code is the same on every carton that is represented in the range in MAN05/MAN06.
	2 MAN03 and/or MAN06 are only used when sending a range(s) of ID numbers. When both MAN02/MAN03 and MAN05/MAN06 are used to send ranges of ID numbers, the integrity of the two ID numbers must be maintained.
Notes:	**When the tare level is used, one occurrence of the MAN segment containing the U.P.C. Shipping Container Code (SCC-14) is required.**

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)			
			UC U.P.C. Shipping Container Code			
			This is the fourteen-digit U.P.C. Shipping Container Code.			
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
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:	
Notes:	**When the tare level sent, this segment is required by Wal-Mart Stores, Inc..**

Data Element Summary

Ref. Des.	Data Element	Name		Attributes	
PAL01	883	Pallet Type Code	O	1	ID 1/2
		Code indicating the type of pallet			
		1 Aluminum			
		2 As Specified by the Department of Transportation (DOT)			
		3 Metal			
		4 Standard			
		5 Steel			
		6 Wood			
		7 Slip sheet			
		Typically cardboard or plastic sheets used to hold product for storage or transportation			
PAL02	884	Pallet Tiers	O	1	N0 1/3
		The number of layers per pallet			
PAL03	885	Pallet Blocks	O	1	N0 1/3
		The number of pieces (cartons) per layer on the pallet			
PAL04	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			
PAL05	395	Unit Weight	X	1	R 1/8
		Numeric value of weight per unit			
PAL06	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			
PAL07	82	Length	X	1	R 1/8
		Largest horizontal dimension of an object measured when the object is in the upright position			

| PAL08 | 189 | Width | X | 1 | R 1/8 |

Shorter measurement of the two horizontal dimensions measured with the object in the upright position

| PAL09 | 65 | Height | X | 1 | R 1/8 |

Vertical dimension of an object measured when the object is in the upright position

| PAL10 | 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

| PAL11 | 384 | Gross Weight per Pack | X | 1 | R 1/9 |

Numeric value of gross weight per pack

| PAL12 | 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

| PAL13 | 385 | Gross Volume per Pack | X | 1 | R 1/9 |

Numeric value of gross volume per pack

| PAL14 | 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

| PAL15 | 399 | Pallet Exchange Code | O | 1 | ID 1/1 |

Code specifying pallet exchange instructions

| PAL16 | 810 | Inner Pack | O | 1 | N0 1/6 |

The number of eaches per inner container

| PAL17 | 1699 | Pallet Structure Code | O | 1 | ID 1/1 |

Code identifying the pallet structure

Segment:	**HL** Hierarchical Level - Pack	
Position:	0100	
Loop:	HL	
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. Des.	Data Element	Name		Attributes	
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			
			<u>**This data element will contain the value of the HL01 in the order level HL segment.**</u>			
M	**HL03**	**735**	**Hierarchical Level Code**	**M**	**1**	**ID 1/2**
			Code defining the characteristic of a level in a hierarchical structure			
			P Pack			
	HL04	*736*	*Hierarchical Child Code*	*O*	*1*	*ID 1/1*
			Code indicating if there are hierarchical child data segments subordinate to the level being described			

	Segment:	**LIN** Item Identification
	Position:	0200
	Loop:	HL
	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: **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.**
Please note that the qualifying values entered in 235/236 may be transmitted in any order. The U.P.C. is the only required item identification.

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes		
	LIN01	*350*	*Assigned Identification*	*O*	*1*	*AN 1/20*
			Alphanumeric characters assigned for differentiation within a transaction set			
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)			
			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)			
			LT Lot Number			
	LIN07	**234**	**Product/Service ID**	**X**	**1**	**AN 1/48**
			Identifying number for a product or service			

LIN08	**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)

UK	GTIN 14-digit Data Structure

Data structure for the 14 digit EAN.UCC (EAN International.Uniform Code Council) Global Trade Item Number (GTIN)

LIN09	**234**	**Product/Service ID**	**X**	**1**	**AN 1/48**

Identifying number for a product or service

LIN10	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)

LIN11	234	Product/Service ID	X	1	AN 1/48

Identifying number for a product or service

LIN12	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)

LIN13	234	Product/Service ID	X	1	AN 1/48

Identifying number for a product or service

LIN14	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)

LIN15	234	Product/Service ID	X	1	AN 1/48

Identifying number for a product or service

LIN16	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)

LIN17	234	Product/Service ID	X	1	AN 1/48

Identifying number for a product or service

LIN18	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)

LIN19	234	Product/Service ID	X	1	AN 1/48

Identifying number for a product or service

LIN20	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)

LIN21	234	Product/Service ID	X	1	AN 1/48

Identifying number for a product or service

LIN22	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)

LIN23	234	Product/Service ID	X	1	AN 1/48

Identifying number for a product or service

LIN24	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)

LIN25	234	Product/Service ID	X	1	AN 1/48

Identifying number for a product or service

LIN26	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)

LIN27	234	Product/Service ID	X	1	AN 1/48

Identifying number for a product or service

LIN28	*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)			
LIN29	*234*	*Product/Service ID*	*X*	*1*	*AN 1/48*
		Identifying number for a product or service			
LIN30	*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)			
LIN31	*234*	*Product/Service ID*	*X*	*1*	*AN 1/48*
		Identifying number for a product or service			

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

Segment: **SN1** Item Detail (Shipment)
Position: 0300
Loop: HL
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. Des.	Data Element	Name	Attributes		
	SN101	350	*Assigned Identification*	O	1	AN 1/20
			Alphanumeric characters assigned for differentiation within a transaction set			
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			
	SN104	646	*Quantity Shipped to Date*	O	1	R 1/15
			Number of units shipped to date			
	SN105	380	*Quantity*	X	1	R 1/15
			Numeric value of quantity			
	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
			Code identifying the load make-up of the returnable containers in the shipment			
	SN108	668	*Line Item Status Code*	O	1	ID 2/2
			Code specifying the action taken by the seller on a line item requested by the buyer			

Segment:	**PO4** Item Physical Details
Position:	0600
Loop:	HL
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

Ref. Des.	Data Element	Name		Attributes	
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**	**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			

    GR   Gram
    KG   Kilogram
    LB   Pound
    OZ   Ounce - Av

Ref. Des.	Data Element	Name		Attributes	
PO408	385	Gross Volume per Pack	X	1	R 1/9
		Numeric value of gross volume per pack			
PO409	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			
PO410	**82**	**Length**	**X**	**1**	**R 1/8**
		Largest horizontal dimension of an object measured when the object is in the upright position			
PO411	**189**	**Width**	**X**	**1**	**R 1/8**
		Shorter measurement of the two horizontal dimensions measured with the object in the upright position			
PO412	**65**	**Height**	**X**	**1**	**R 1/8**
		Vertical dimension of an object measured when the object is in the upright position			
PO413	**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			

    CM   Centimeter
    IN   Inch
    MM   Millimeter

| PO414 | 810 | Inner Pack | O | 1 | N0 1/6 |

The number of eaches per inner container

| PO415 | 752 | Surface/Layer/Position Code | O | 1 | ID 2/2 |

Code indicating the product surface, layer or position that is being described

| PO416 | 350 | Assigned Identification | X | 1 | AN 1/20 |

Alphanumeric characters assigned for differentiation within a transaction set

| PO417 | 350 | Assigned Identification | O | 1 | AN 1/20 |

Alphanumeric characters assigned for differentiation within a transaction set

| PO418 | 1470 | Number | O | 1 | N0 1/9 |

A generic number

<table>
<tr><td align="right">**Segment:**</td><td># MAN **Marks and Numbers Information**</td></tr>
</table>

Position:	1900
Loop:	HL
Level:	Detail
Usage:	Optional
Max Use:	>1
Purpose:	To indicate identifying marks and numbers for shipping containers
Syntax Notes:	**1** If either MAN04 or MAN05 is present, then the other is required.
	2 If MAN06 is present, then MAN05 is required.
Semantic Notes:	**1** MAN01/MAN02 and MAN04/MAN05 may be used to identify two different marks and numbers assigned to the same physical container.
	2 When both MAN02 and MAN03 are used, MAN02 is the starting number of a sequential range and MAN03 is the ending number of that range.
	3 When both MAN05 and MAN06 are used, MAN05 is the starting number of a sequential range, and MAN06 is the ending number of that range.
Comments:	**1** When MAN01 contains code "UC" (U.P.C. Shipping Container Code) and MAN05/MAN06 contain a range of ID numbers, MAN03 is not used. The reason for this is that the U.P.C. Shipping Container code is the same on every carton that is represented in the range in MAN05/MAN06.
	2 MAN03 and/or MAN06 are only used when sending a range(s) of ID numbers. When both MAN02/MAN03 and MAN05/MAN06 are used to send ranges of ID numbers, the integrity of the two ID numbers must be maintained.
Notes:	**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. for all truckload (TL) and less-than truckload (LTL) collect shipment s(FOB*CC) small package, collect shipments are not assigned a Wal-Mart Load Number.
	This segment is required by Wal-Mart Stores, Inc.

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)			
			UP U.P.C. Consumer Package Code			
			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.			
			UC U.P.C. Shipping Container Code			
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			

Segment:		# MAN Marks and Numbers Information	
Position:	1900		
Loop:	HL		
Level:	Detail		
Usage:	Optional		
Max Use:	>1		
Purpose:	To indicate identifying marks and numbers for shipping containers		
Syntax Notes:	1	If either MAN04 or MAN05 is present, then the other is required.	
	2	If MAN06 is present, then MAN05 is required.	
Semantic Notes:	1	MAN01/MAN02 and MAN04/MAN05 may be used to identify two different marks and numbers assigned to the same physical container.	
	2	When both MAN02 and MAN03 are used, MAN02 is the starting number of a sequential range and MAN03 is the ending number of that range.	
	3	When both MAN05 and MAN06 are used, MAN05 is the starting number of a sequential range, and MAN06 is the ending number of that range.	
Comments:	1	When MAN01 contains code "UC" (U.P.C. Shipping Container Code) and MAN05/MAN06 contain a range of ID numbers, MAN03 is not used. The reason for this is that the U.P.C. Shipping Container code is the same on every carton that is represented in the range in MAN05/MAN06.	
	2	MAN03 and/or MAN06 are only used when sending a range(s) of ID numbers. When both MAN02/MAN03 and MAN05/MAN06 are used to send ranges of ID numbers, the integrity of the two ID numbers must be maintained.	

Notes: **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. for all truckload (TL) and less-than truckload (LTL) collect shipment s(FOB*CC) small package, collect shipments are not assigned a Wal-Mart Load Number.

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	SSCC-18			
				This is an eighteen-character UCC/EAN-128 Serial Shipping Container Code (SSCC-18) that does not include the two digit application identifier, the symbology code, or the modulo 103 check character			
			GM	SSCC-18 and Application Identifier			
				This is a twenty-character UCC/EAN-128 Serial Shipping Container Code (SSCC-18) that includes the two digit application identifier. The symbology code and the modulo 103 check digit are not included.			
			SM	Shipper Assigned			
				Us this qualifier and the corresponding marks and numbers a pack level to send the Shipper Assigned number 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				

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:		**MAN** Marks and Numbers Information			

Segment:	**MAN** Marks and Numbers Information
Position:	1900
Loop:	HL
Level:	Detail
Usage:	Optional
Max Use:	>1
Purpose:	To indicate identifying marks and numbers for shipping containers
Syntax Notes:	1 If either MAN04 or MAN05 is present, then the other is required.
	2 If MAN06 is present, then MAN05 is required.
Semantic Notes:	1 MAN01/MAN02 and MAN04/MAN05 may be used to identify two different marks and numbers assigned to the same physical container.
	2 When both MAN02 and MAN03 are used, MAN02 is the starting number of a sequential range and MAN03 is the ending number of that range.
	3 When both MAN05 and MAN06 are used, MAN05 is the starting number of a sequential range, and MAN06 is the ending number of that range.
Comments:	1 When MAN01 contains code "UC" (U.P.C. Shipping Container Code) and MAN05/MAN06 contain a range of ID numbers, MAN03 is not used. The reason for this is that the U.P.C. Shipping Container code is the same on every carton that is represented in the range in MAN05/MAN06.
	2 MAN03 and/or MAN06 are only used when sending a range(s) of ID numbers. When both MAN02/MAN03 and MAN05/MAN06 are used to send ranges of ID numbers, the integrity of the two ID numbers must be maintained.
Notes:	**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. for all truckload (TL) and less-than truckload (LTL) collect shipments (FOB*CC) small package, collect shipments are not assigned a Wal-Mart Load Number.

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)				
			CP	Carrier Assigned Package ID Number			
			For small package shipments, this qualifier and the corresponding Marks and Numbers are required by Wal-Mart Stores, Inc.				
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:	**MAN** Marks and Numbers Information				
Position:	1950				
Loop:	HL				
Level:	Detail				
Usage:	Optional				
Max Use:	1				
Purpose:	To indicate identifying marks and numbers for shipping containers				

Syntax Notes:
1. If either MAN04 or MAN05 is present, then the other is required.
2. If MAN06 is present, then MAN05 is required.

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

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

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)			
			SI Self-Identifying Container via Radio Frequency ID Device			
			Inbound containers that do not need manual routing			
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:	**DTM** Date/Time Reference

Segment: **DTM** Date/Time Reference

Position: 2000
Loop: HL
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:
Notes: This segment at the pack level, is used to communicate production and expiration information.

Data Element Summary

	Ref. Des.	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

	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

<table>
<tr><td>**Segment:**</td><td>**DTM** Date/Time Reference</td></tr>
<tr><td>**Position:**</td><td>2000</td></tr>
<tr><td>**Loop:**</td><td>HL</td></tr>
<tr><td>**Level:**</td><td>Detail</td></tr>
<tr><td>**Usage:**</td><td>Optional</td></tr>
<tr><td>**Max Use:**</td><td>10</td></tr>
<tr><td>**Purpose:**</td><td>To specify pertinent dates and times</td></tr>
<tr><td>**Syntax Notes:**</td><td>1   At least one of DTM02 DTM03 or DTM05 is required.</td></tr>
<tr><td></td><td>2   If DTM04 is present, then DTM03 is required.</td></tr>
<tr><td></td><td>3   If either DTM05 or DTM06 is present, then the other is required.</td></tr>
<tr><td>**Semantic Notes:**</td><td></td></tr>
<tr><td>**Comments:**</td><td></td></tr>
<tr><td>**Notes:**</td><td></td></tr>
</table>

Data Element Summary

	Ref. Des.	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			

	405	Production
		Used to identify dates and times that operations or processes were performed

	Ref. Des.	Data Element	Name		Attributes	
	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: # DTM Date/Time Reference

Position: 2000
Loop: HL
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:

Data Element Summary

	Ref. Des.	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			
			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:	**HL** Hierarchical Level - Item
	Position:	0100
	Loop:	HL
	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. Des.	Data Element	Name		Attributes	
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 pack (case)- level HL segment, as appropriate to the transaction set structure.			
M	**HL03**	**735**	**Hierarchical Level Code**	M	1	ID 1/2
			Code defining the characteristic of a level in a hierarchical structure			
			I Item			
	HL04	*736*	*Hierarchical Child Code*	*O*	*1*	*ID 1/1*
			Code indicating if there are hierarchical child data segments subordinate to the level being described			

			Segment:	**LIN** Item Identification

Segment: **LIN** Item Identification

Position: 0200
Loop: HL
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: **Please note that the qualifying values entered in LIN02/04/06 may be transmitted in any order. The U.P.C. is the only required item identification.**

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

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes		
	LIN01	*350*	*Assigned Identification*	*O*	*1*	*AN 1/20*
			Alphanumeric characters assigned for differentiation within a transaction set			
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)			
			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**	**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)			
			IN Buyer's Item Number			
	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/Servi ce ID**	**X**	**1**	**AN 1/48**
		Identifying number for a product or service			
LIN08	**235**	**Product/Service ID Qualifier**	**X**	**1**	**ID 2/2**
		UK GTIN Qualifier			
LIN09	**234**	**Product/Service ID**	**X**	**1**	**AN 1/48**
		Identifying number for a product or service			
LIN10	*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)			
LIN11	*234*	*Product/Service ID*	*X*	*1*	*AN 1/48*
		Identifying number for a product or service			
LIN12	*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)			
LIN13	*234*	*Product/Service ID*	*X*	*1*	*AN 1/48*
		Identifying number for a product or service			
LIN14	*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)			
LIN15	*234*	*Product/Service ID*	*X*	*1*	*AN 1/48*
		Identifying number for a product or service			
LIN16	*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)			
LIN17	*234*	*Product/Service ID*	*X*	*1*	*AN 1/48*
		Identifying number for a product or service			
LIN18	*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)			
LIN19	*234*	*Product/Service ID*	*X*	*1*	*AN 1/48*
		Identifying number for a product or service			
LIN20	*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)			
LIN21	*234*	*Product/Service ID*	*X*	*1*	*AN 1/48*
		Identifying number for a product or service			
LIN22	*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)			
LIN23	*234*	*Product/Service ID*	*X*	*1*	*AN 1/48*
		Identifying number for a product or service			
LIN24	*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)			
LIN25	*234*	*Product/Service ID*	*X*	*1*	*AN 1/48*
		Identifying number for a product or service			
LIN26	*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)			
LIN27	*234*	*Product/Service ID*	*X*	*1*	*AN 1/48*
		Identifying number for a product or service			

LIN28	*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)			
LIN29	*234*	*Product/Service ID*	*X*	*1*	*AN 1/48*
		Identifying number for a product or service			
LIN30	*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)			
LIN31	*234*	*Product/Service ID*	*X*	*1*	*AN 1/48*
		Identifying number for a product or service			

Segment:		**SN1** Item Detail (Shipment)				
Position:		0300				
Loop:		HL				
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 associate d with the item identified in the LIN at the item level.

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

If SN103 contains "CA" - Cases, then the PO4 segment is required.

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

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes		
	SN101	350	*Assigned Identification*	*O*	*1*	*AN 1/20*
			Alphanumeric characters assigned for differentiation within a transaction set			
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*
			Number of units shipped to date			
	SN105	380	*Quantity*	*X*	*1*	*R 1/15*
			Numeric value of quantity			
	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*
			Code identifying the load make-up of the returnable containers in the shipment			
	SN108	668	*Line Item Status Code*	*O*	*1*	*ID 2/2*
			Code specifying the action taken by the seller on a line item requested by the buyer			

Segment:	**PO4** Item Physical Details
Position:	0600
Loop:	HL
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:	**This segment is used to specify the packaging of the item in the case or carton. There may be two levels of packaging specified. The first level is always specified by using PO401 (Pack). The first level may be actual items, e.g., consumer units, or it may be the number of smaller containers within the case. The second level, specified using PO414 (Inner Pack), is the number of eaches in each inner container when PO401 is the number of smaller containers within the case. See Section V (Pack/Inner Pack Usage) for usage examples.**
	This segment can be used to specify the weight for the item by using PO406 and PO407, and to specify the volume (cube) by using PO408 and PO409.
	<u>**This segment is required if unit of measure in the SN103 is "CA".**</u>

Data Element Summary

Ref. Des.	Data Element	Name	Attributes		
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*	*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			
PO408	*385*	*Gross Volume per Pack*	*X*	*1*	*R 1/9*
		Numeric value of gross volume per pack			
PO409	*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			
PO410	*82*	*Length*	*X*	*1*	*R 1/8*
		Largest horizontal dimension of an object measured when the object is in the upright position			
PO411	*189*	*Width*	*X*	*1*	*R 1/8*
		Shorter measurement of the two horizontal dimensions measured with the object in the upright position			
PO412	*65*	*Height*	*X*	*1*	*R 1/8*
		Vertical dimension of an object measured when the object is in the upright position			
PO413	*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			
PO414	**810**	**Inner Pack**	**O**	**1**	**N0 1/6**
		The number of eaches per inner container			
PO415	*752*	*Surface/Layer/Position Code*	*O*	*1*	*ID 2/2*
		Code indicating the product surface, layer or position that is being described			
PO416	*350*	*Assigned Identification*	*X*	*1*	*AN 1/20*
		Alphanumeric characters assigned for differentiation within a transaction set			
PO417	*350*	*Assigned Identification*	*O*	*1*	*AN 1/20*
		Alphanumeric characters assigned for differentiation within a transaction set			
PO418	*1470*	*Number*	*O*	*1*	*N0 1/9*
		A generic number			

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:		<mark>**This segment is required by Wal-Mart Stores, Inc**</mark>			

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes		
M	**CTT01**	**354**	**Number of Line Items**	**M**	**1**	**N0 1/6**
			Total number of line items in the transaction set			
			The number of HL segments present in the transaction set			
	CTT02	347	*Hash Total*	*O*	*1*	*R 1/10*
			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.			
			Example:			
			-.0018 First occurrence of value being hashed.			
			.18 Second occurrence of value being hashed.			
			1.8 Third occurrence of value being hashed.			
			18.01 Fourth occurrence of value being hashed.			
			18E2 Fifth occurrence of value being hashed.			

			1873 Hash Total			
	CTT03	81	*Weight*	*X*	*1*	*R 1/10*
			Numeric value of weight			
	CTT04	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			
	CTT05	183	*Volume*	*X*	*1*	*R 1/8*
			Value of volumetric measure			
	CTT06	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			
	CTT07	352	*Description*	*O*	*1*	*AN 1/80*
			A free-form description to clarify the related data elements and their content			

			Segment:	**SE** Transaction Set Trailer

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

	Ref. Des.	Data Element	Name	Attributes		
M	SE01	96	**Number of Included Segments**	M	1	N0 1/10
			Total number of segments included in a transaction set including ST and SE segments			
M	SE02	329	**Transaction Set Control Number**	M	1	AN 4/9
			Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set			
			This must be the same number as is in the ST segment (ST02) for the transaction set.			

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

Heading:

	Pos. No.	Seg. ID	Name	Req. Des.	Max.Use	Loop Repeat	Notes and Comments
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:

	Pos. No.	Seg. ID	Name	Req. Des.	Max.Use	Loop Repeat	Notes and Comments
			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:

	Pos. No.	Seg. ID	Name	Req. Des.	Max.Use	Loop Repeat	Notes and Comments
	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.
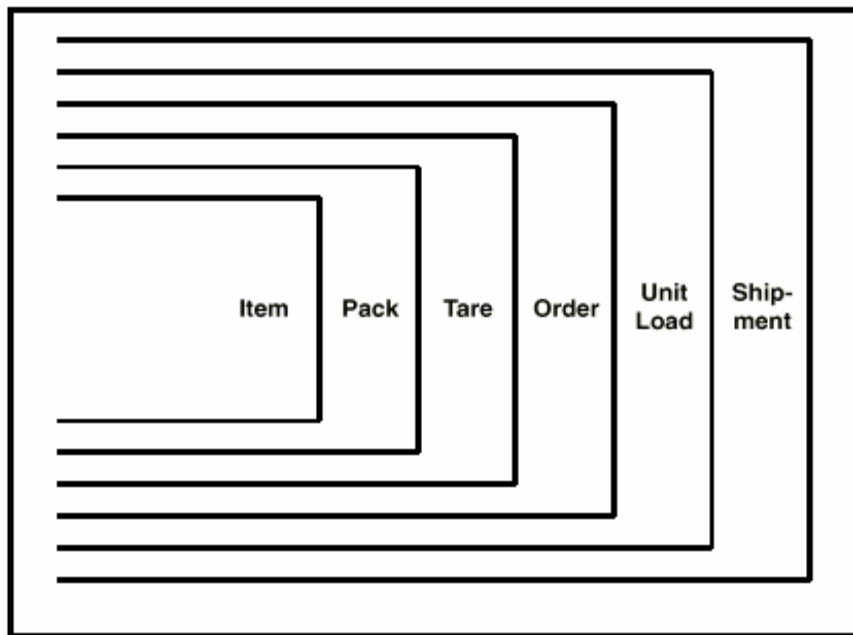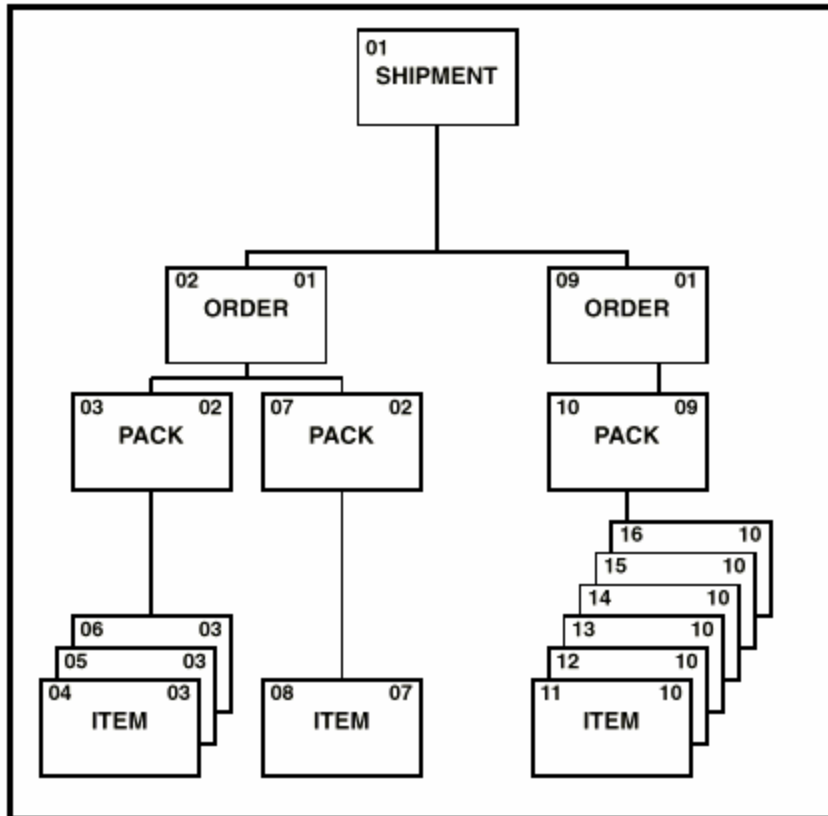
For the Standard Carton Pack Structure, the Item is between the Order level and the Tare level, i.e., the specification of the shipment containers is always within the SKU. The SKU is specified, then all of the shipping containers for the SKUs are identified. The order of the hierarchical levels are Shipment, Unit Load, Order, Item, Tare, and Pack.

Wal-Mart Stores, Inc. Confidential
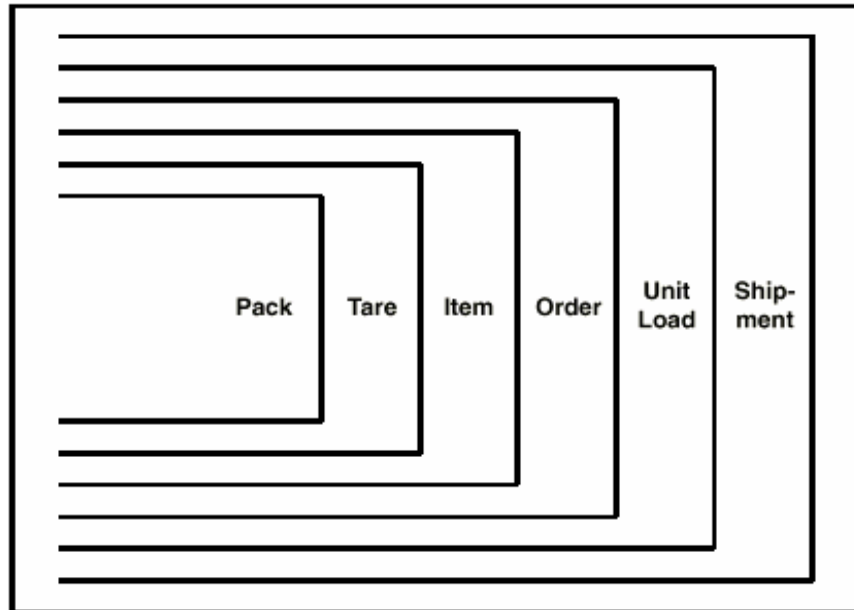
Pick and Pack Structure Example

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).

```
                        ┌──────────────┐
                        │ 01           │
                        │  SHIPMENT    │
                        └──────┬───────┘
             ┌─────────────────┴─────────────────┐
      ┌──────┴───────┐                     ┌──────┴───────┐
      │ 02       01  │                     │ 09       01  │
      │   ORDER      │                     │   ORDER      │
      └──────┬───────┘                     └──────┬───────┘
       ┌─────┴─────┐                              │
 ┌─────┴─────┐ ┌───┴───────┐              ┌───────┴──────┐
 │ 03     02 │ │ 07     02 │              │ 10       09  │
 │  PACK     │ │  PACK     │              │   PACK       │
 └─────┬─────┘ └─────┬─────┘              └──────┬───────┘
       │             │                      ┌────┴─────────────┐
       │             │                      │ 16          10   │
       │             │                    │ 15          10   │
  ┌────┴──────┐      │                   │ 14          10   │
 │ 06     03 │       │                  │ 13          10   │
 │ 05     03 │       │                 │ 12          10   │
┌┴──────────┐│  ┌────┴──────┐         ┌┴─────────────────┐
│ 04     03 ││  │ 08     07 │         │ 11          10   │
│   ITEM    ││  │   ITEM    │         │    ITEM          │
└───────────┘┘  └───────────┘         └──────────────────┘
```

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).
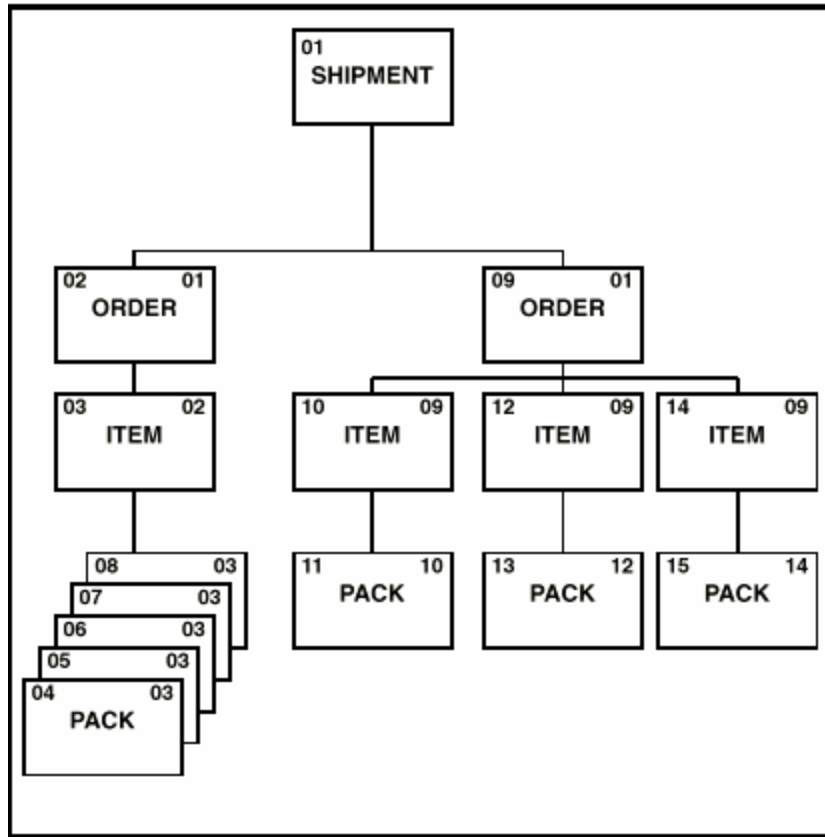
Shipments via Small Package Service Carrier

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:

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

Detail:

	Pos. No.	Seg. ID	Name	Req. Des.	Max.Use	Loop Repeat	Notes and Comments
			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:

	Pos. No.	Seg. ID	Name	Req. Des.	Max.Use	Loop Repeat	Notes and Comments
			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:

	Pos. No.	Seg. ID	Name	Req. Des.	Max.Use	Loop Repeat	Notes and Comments
			LOOP ID - HL			200000	
M	0100	HL	Hierarchical Level	M	1		
	0500	PRF	Purchase Order Reference	O	1		

	Pos. No.	Seg. ID	Name	Req. Des.	Max.Use	Loop Repeat	Notes and Comments
	0700	PID	Product/Item Description	O	200		
	1100	TD1	Carrier Details (Quantity and Weight)	O	20		
	1200	TD5	Carrier Details (Routing Sequence/Transit Time)	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:

	Pos. No.	Seg. ID	Name	Req. Des.	Max.Use	Loop Repeat	Notes and Comments
			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:

	Pos. No.	Seg. ID	Name	Req. Des.	Max.Use	Loop Repeat	Notes and Comments
			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:

	Pos. No.	Seg. ID	Name	Req. Des.	Max.Use	Loop Repeat	Notes and Comments
			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:

	Pos. No.	Seg. ID	Name	Req. Des.	Max.Use	Loop Repeat	Notes and Comments
	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 eleme nts are noted in bold text with a shaded background.**
10. <u>**Wal-Mart comments relating to segments and data elements are noted in underlined bold text with a shaded background.**</u>

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**   — 9
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 — 10
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
M	**N101**	**98**	**Entity Identifier Code**	**M**	**ID 2/3**
			Code identifying an organizational entity, a physical location, property or an individual		
			ST Ship To		
	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		
			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		
	N104	**67**	**Identification Code**	**X**	**AN 2/80**
			Code identifying a party or other code		
	N105	*706*	*Entity Relationship Code*	*O*	*ID 2/2*
			Code describing entity relationship		
	N106	*98*	*Entity Identifier Code*	*O*	*ID 2/3*
			Code identifying an organizational entity, a physical location, property or an individual		

Labels around the page: 1, 2, 3 (left of N101); 8; 4.1; 4.3; 4.2; 7; 5; 1; 6

856 Advance Ship Notice – Changes from Previous (4030) Version

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.

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

Change History

Date	Version	Description of Changes
October, 2004	0.1	Draft Version Created
December, 2004	0.2	Draft Version Published
January, 2005	1.0	Production Guide Released