DSW - 856
Designer Shoe Warehouse (Pick and Pack)

X12/V4010/856: 856 Ship Notice/Manifest

Version: 2.1 Final

Author:	**Brand Technology Services LLC, A DSW Company**
Company:	
Publication:	**9/28/2005**
Modified:	**10/13/2016**
Notes:	**Updated Author Included 856 V4010 X12**

data example

Table of Contents

856 Ship Notice/Manifest

Functional Group=SH

Purpose: 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.

Not Defined:

Pos	Id	Segment Name	Req	Max Use	Repeat	Notes	Usage
	ISA	Interchange Control Header	M	1			Must use
	GS	Functional Group Header	M	1			Must use

Heading:

Pos	Id	Segment Name	Req	Max Use	Repeat	Notes	Usage
010	ST	Transaction Set Header	M	1			Must use
020	BSN	Beginning Segment for Ship Notice	M	1			Must use

Detail:

Pos	Id	Segment Name	Req	Max Use	Repeat	Notes	Usage
LOOP ID - HL					**200000**	**C2/010L**	
010	HL	Hierarchical Level	M	1		C2/010	Must use
110	TD1	Carrier Details (Quantity and Weight)	O	20			Must use
120	TD5	Carrier Details (Routing Sequence/Transit Time)	M	12			Used
150	REF	Reference Identification	O	>1			Used
200	DTM	Date/Time Reference	M	10			Must use
200	DTM	Date/Time Reference	O	10			Used
210	FOB	F.O.B. Related Instructions	O	1			Used
LOOP ID - N1					**200**		
220	N1	Name	M	1			Used
240	N3	Address Information	O	2			Used
250	N4	Geographic Location	M	1			Used
LOOP ID - HL					**200000**	**C2/010L**	
010	HL	Hierarchical Level	M	1		C2/010	Must use
050	PRF	Purchase Order Reference	M	1			Must use
110	TD1	Carrier Details (Quantity and Weight)	O	20			Must use
LOOP ID - HL					**200000**	**C2/010L**	
010	HL	Hierarchical Level	M	1		C2/010	Must use
190	MAN	Marks and Numbers	M	>1			Used

Pos	Id	Segment Name	Req	Max Use	Repeat	Notes	Usage
LOOP ID - HL					**200000**	**C2/010L**	
010	HL	Hierarchical Level	M	1		C2/010	Must use
020	LIN	Item Identification	O	1			Must use
030	SN1	Item Detail (Shipment)	O	1			Used

Summary:

Pos	Id	Segment Name	Req	Max Use	Repeat	Notes	Usage
010	CTT	Transaction Totals	O	1		N3/010	Must use
020	SE	Transaction Set Trailer	M	1			Must use

Not Defined:

Pos	Id	Segment Name	Req	Max Use	Repeat	Notes	Usage
	GE	Functional Group Trailer	M	1			Must use
	IEA	Interchange Control Trailer	M	1			Must use

Notes:

3/010 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.

Comments:

2/010L The HL segment is the only mandatory segment within the HL loop, and by itself, the HL segment has no meaning.

2/010 The HL segment is the only mandatory segment within the HL loop, and by itself, the HL segment has no meaning.

2/010L The HL segment is the only mandatory segment within the HL loop, and by itself, the HL segment has no meaning.

2/010 The HL segment is the only mandatory segment within the HL loop, and by itself, the HL segment has no meaning.

2/010L The HL segment is the only mandatory segment within the HL loop, and by itself, the HL segment has no meaning.

2/010 The HL segment is the only mandatory segment within the HL loop, and by itself, the HL segment has no meaning.

2/010L The HL segment is the only mandatory segment within the HL loop, and by itself, the HL segment has no meaning.

2/010 The HL segment is the only mandatory segment within the HL loop, and by itself, the HL segment has no meaning.

User Note 1:

10/13/2013 Changes:
Updated LIN note to clarify UPC must be used for LIN02/03

ISA Interchange Control Header

Pos:	Max: 1
Not Defined - Mandatory	
Loop: N/A	Elements: 16

User Option (Usage): Must use

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

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
ISA01	I01	**Authorization Information Qualifier**	M	ID	2/2	Must use
		Description: Code to identify the type of information in the Authorization Information				
		CodeList Summary (Total Codes: 7, Included: 1)				
		Code Name				
		00 No Authorization Information Present (No Meaningful Information in I02)				
ISA02	I02	**Authorization Information**	M	AN	10/10	Must use
		Description: Information used for additional identification or authorization of the interchange sender or the data in the interchange; the type of information is set by the Authorization Information Qualifier (I01)				
ISA03	I03	**Security Information Qualifier**	M	ID	2/2	Must use
		Description: Code to identify the type of information in the Security Information				
		CodeList Summary (Total Codes: 2, Included: 1)				
		Code Name				
		00 No Security Information Present (No Meaningful Information in I04)				
ISA04	I04	**Security Information**	M	AN	10/10	Must use
		Description: This is used for identifying the security information about the interchange sender or the data in the interchange; the type of information is set by the Security Information Qualifier (I03)				
ISA05	I05	**Interchange ID Qualifier**	M	ID	2/2	Must use
		Description: Qualifier to designate the system/method of code structure used to designate the sender or receiver ID element being qualified				
		CodeList Summary (Total Codes: 38, Included: 4)				
		Code Name				
		01 Duns (Dun & Bradstreet)				
		08 UCC EDI Communications ID (Comm ID)				
		12 Phone (Telephone Companies)				
		ZZ Mutually Defined				
ISA06	I06	**Interchange Sender ID**	M	AN	15/15	Must use
		Description: Identification code published by the sender for other parties to use as the receiver ID to route data to them; the sender always codes this value in the sender ID element				
ISA07	I05	**Interchange ID Qualifier**	M	ID	2/2	Must use
		Description: Qualifier to designate the system/method of code structure used to designate				

Ref	Id	Element Name	Req	Type	Min/Max	Usage
		the sender or receiver ID element being qualified **CodeList Summary** (Total Codes: 38, Included: 4) **Code** **Name** 01 Duns (Dun & Bradstreet) 08 UCC EDI Communications ID (Comm ID) 12 Phone (Telephone Companies) ZZ Mutually Defined				
ISA08	I07	**Interchange Receiver ID**	M	AN	15/15	Must use
		Description: Identification code published by the receiver of the data; When sending, it is used by the sender as their sending ID, thus other parties sending to them will use this as a receiving ID to route data to them				
ISA09	I08	**Interchange Date**	M	DT	6/6	Must use
		Description: Date of the interchange				
ISA10	I09	**Interchange Time**	M	TM	4/4	Must use
		Description: Time of the interchange				
ISA11	I10	**Interchange Control Standards Identifier**	M	ID	1/1	Must use
		Description: Code to identify the agency responsible for the control standard used by the message that is enclosed by the interchange header and trailer				
ISA12	I11	**Interchange Control Version Number**	M	ID	5/5	Must use
		Description: Code specifying the version number of the interchange control segments **CodeList Summary** (Total Codes: 14, Included: 1) **Code** **Name** 00401 Draft Standards for Trial Use Approved for Publication by ASC X12 Procedures Review Board through October 1997				
ISA13	I12	**Interchange Control Number**	M	N0	9/9	Must use
		Description: A control number assigned by the interchange sender				
ISA14	I13	**Acknowledgment Requested**	M	ID	1/1	Must use
		Description: Code sent by the sender to request an interchange acknowledgment (TA1) **CodeList Summary** (Total Codes: 2, Included: 1) **Code** **Name** 0 No Acknowledgment Requested				
ISA15	I14	**Usage Indicator**	M	ID	1/1	Must use
		Description: Code to indicate whether data enclosed by this interchange envelope is test, production or information **CodeList Summary** (Total Codes: 3, Included: 2) **Code** **Name** P Production Data T Test Data				

ISA16	I15	**Component Element Separator**	M	1/1	Must use

Description: Type is not applicable; the component element separator is a delimiter and not a data element; this field provides the delimiter used to separate component data elements within a composite data structure; this value must be different than the data element separator and the segment terminator

GS Functional Group Header

Pos:	Max: 1
Not Defined - Mandatory	
Loop: N/A	Elements: 8

User Option (Usage): Must use

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

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
GS01	479	**Functional Identifier Code**	M	ID	2/2	Must use
		Description: Code identifying a group of application related transaction sets **CodeList Summary** (Total Codes: 240, Included: 1) **Code** **Name** SH Ship Notice/Manifest (856)				
GS02	142	**Application Sender's Code**	M	AN	2/15	Must use
		Description: Code identifying party sending transmission; codes agreed to by trading partners				
GS03	124	**Application Receiver's Code**	M	AN	2/15	Must use
		Description: Code identifying party receiving transmission; codes agreed to by trading partners				
GS04	373	**Date**	M	DT	8/8	Must use
		Description: Date expressed as CCYYMMDD				
GS05	337	**Time**	M	TM	4/8	Must use
		Description: Time expressed in 24-hour clock time as follows: HHMM, or HHMMSS, or HHMMSSD, or HHMMSSDD, where H = hours (00-23), M = minutes (00-59), S = integer seconds (00-59) and DD = decimal seconds; decimal seconds are expressed as follows: D = tenths (0-9) and DD = hundredths (00-99)				
GS06	28	**Group Control Number**	M	N0	1/9	Must use
		Description: Assigned number originated and maintained by the sender				
GS07	455	**Responsible Agency Code**	M	ID	1/2	Must use
		Description: Code identifying the issuer of the standard; this code is used in conjunction with Data Element 480 **CodeList Summary** (Total Codes: 2, Included: 1) **Code** **Name** X Accredited Standards Committee X12				
GS08	480	**Version / Release / Industry Identifier Code**	M	AN	1/12	Must use
		Description: Code indicating the version, release, subrelease, and industry identifier of the EDI standard being used, including the GS and GE segments; if code in DE455 in GS segment is X, then in DE 480 positions 1-3 are the version number; positions 4-6 are the release and subrelease, level of the version; and positions 7-12 are the industry or trade association identifiers (optionally assigned by user); if code in DE455 in GS segment is T, then other formats are allowed				

Ref	Id	Element Name	Req	Type	Min/Max	Usage

CodeList Summary (Total Codes: 39, Included: 1)

Code	Name
004010	Draft Standards Approved for Publication by ASC X12 Procedures Review Board through October 1997

Semantics:

1. GS04 is the group date.
2. GS05 is the group time.
3. The data interchange control number GS06 in this header must be identical to the same data element in the associated functional group trailer, GE02.

Comments:

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

ST Transaction Set Header

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

User Option (Usage): Must use

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

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
ST01	143	**Transaction Set Identifier Code**	M	ID	3/3	Must use
		Description: Code uniquely identifying a Transaction Set				
		CodeList Summary (Total Codes: 298, Included: 1)				
		Code **Name**				
		856 Ship Notice/Manifest				
ST02	329	**Transaction Set Control Number**	M	AN	4/9	Must use
		Description: Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set				

Semantics:

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

BSN Beginning Segment for Ship Notice

Pos: 020 **Max: 1**
Heading - Mandatory
Loop: N/A **Elements: 5**

User Option (Usage): Must use
Purpose: To transmit identifying numbers, dates, and other basic data relating to the transaction set

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
BSN01	353	**Transaction Set Purpose Code**	M	ID	2/2	Must use
		Description: Code identifying purpose of transaction set **CodeList Summary** (Total Codes: 65, Included: 1) **Code** **Name** 00 Original				
BSN02	396	**Shipment Identification**	M	AN	2/30	Must use
		Description: A unique control number assigned by the original shipper to identify a specific shipment				
BSN03	373	**Date**	M	DT	8/8	Must use
		Description: Date expressed as CCYYMMDD				
BSN04	337	**Time**	M	TM	4/8	Must use
		Description: Time expressed in 24-hour clock time as follows: HHMM, or HHMMSS, or HHMMSSD, or HHMMSSDD, where H = hours (00-23), M = minutes (00-59), S = integer seconds (00-59) and DD = decimal seconds; decimal seconds are expressed as follows: D = tenths (0-9) and DD = hundredths (00-99)				
BSN05	1005	**Hierarchical Structure Code**	M	ID	4/4	Must use
		Description: Code indicating the hierarchical application structure of a transaction set that utilizes the HL segment to define the structure of the transaction set **User Note 1:** *Pick and Pack Structure* **CodeList Summary** (Total Codes: 61, Included: 1) **Code** **Name** 0001 Shipment, Order, Packaging, Item				

Syntax Rules:

1. C0706 - If BSN07 is present, then BSN06 is required.

Semantics:

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.

EXAMPLE:

*BSN*00*13894*20050711*1653*0001*

Loop Hierarchical Level

Pos: 010	Repeat: 200000
Mandatory	
Loop: HL	Elements: N/A

User Option (Usage): Must use

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

Loop Summary:

Pos	Id	Segment Name	Req	Max Use	Repeat	Usage
010	HL	Hierarchical Level	M	1		Must use
110	TD1	Carrier Details (Quantity and Weight)	O	20		Must use
120	TD5	Carrier Details (Routing Sequence/Transit Time)	M	12		Used
150	REF	Reference Identification	O	>1		Used
200	DTM	Date/Time Reference	M	10		Must use
200	DTM	Date/Time Reference	O	10		Used
210	FOB	F.O.B. Related Instructions	O	1		Used
220		Loop N1	M		200	Used

HL Hierarchical Level

Pos: 010	Max: 1
Detail - Mandatory	
Loop: HL	Elements: 2

User Option (Usage): Must use

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

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
HL01	628	**Hierarchical ID Number**	M	AN	1/12	Must use
		Description: A unique number assigned by the sender to identify a particular data segment in a hierarchical structure				
HL03	735	**Hierarchical Level Code**	M	ID	1/2	Must use
		Description: Code defining the characteristic of a level in a hierarchical structure				
		CodeList Summary (Total Codes: 170, Included: 1)				
		Code **Name**				
		S Shipment				

Comments:

1. The HL segment is used to identify levels of detail information using a hierarchical structure, such as relating line-item data to shipment data, and packaging data to line-item data.
2. The HL segment defines a top-down/left-right ordered structure.
3. 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.
4. HL02 identifies the hierarchical ID number of the HL segment to which the current HL segment is subordinate.
5. 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.
6. HL04 indicates whether or not there are subordinate (or child) HL segments related to the current HL segment.

EXAMPLE:

*HL*1**S*

Note:

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.

TD1 Carrier Details (Quantity and Weight)

Pos: 110	Max: 20
Detail - Optional	
Loop: HL	Elements: 5

User Option (Usage): Must use

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

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
TD101	103	**Packaging Code**	M	AN	3/5	Must use
		Description: 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				
		CodeList Summary (Total Codes: 148, Included: 1)				
		Code **Name**				
		CTN Carton				
		CodeList Summary (Total Codes: 55, Included: 2)				
		Code **Name**				
		25 Corrugated or Solid				
		76 Paper				
TD102	80	**Lading Quantity**	M	N0	1/7	Must use
		Description: Number of units (pieces) of the lading commodity				
		User Note 1: *Containers in the shipment as described in TD101*				
TD106	187	**Weight Qualifier**	M	ID	1/2	Must use
		Description: Code defining the type of weight				
		CodeList Summary (Total Codes: 51, Included: 1)				
		Code **Name**				
		G Gross Weight				
TD107	81	**Weight**	M	R	1/10	Must use
		Description: Numeric value of weight				
		User Note 1: *Weight of the entire shipment containers*				
TD108	355	**Unit or Basis for Measurement Code**	M	ID	2/2	Must use
		Description: Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken				
		CodeList Summary (Total Codes: 794, Included: 1)				
		Code **Name**				
		LB Pound				

Syntax Rules:

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

EXAMPLE:

*TD1*CTN25*350****G*1350.5*LB*

NOTE:
This shipment (shipment level) is used to specify total containers and gross weight of the shipment.

TD5 Carrier Details (Routing Sequence/Transit Time)

Pos: 120	Max: 12
Detail - Mandatory	
Loop: HL	Elements: 5

User Option (Usage): Used

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

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
TD501	133	**Routing Sequence Code** **Description:** Code describing the relationship of a carrier to a specific shipment movement **All valid standard codes are used. (Total Codes: 23)**	O	ID	1/2	Used
TD502	66	**Identification Code Qualifier** **Description:** Code designating the system/method of code structure used for Identification Code (67) **CodeList Summary** (Total Codes: 215, Included: 1) **Code** **Name** 2 Standard Carrier Alpha Code (SCAC)	C	ID	1/2	Must use
TD503	67	**Identification Code** **Description:** Code identifying a party or other code	C	AN	2/80	Must use
TD504	91	**Transportation Method/Type Code** **Description:** Code specifying the method or type of transportation for the shipment **All valid standard codes are used. (Total Codes: 71)**	C	ID	1/2	Used
TD505	387	**Routing** **Description:** Free-form description of the routing or requested routing for shipment, or the originating carrier's identity	C	AN	1/35	Used

Syntax Rules:

1. R0204050612 - At least one of TD502, TD504, TD505, TD506 or TD512 is required.
2. C0203 - If TD502 is present, then TD503 is required.
3. C0708 - If TD507 is present, then TD508 is required.
4. C1011 - If TD510 is present, then TD511 is required.
5. C1312 - If TD513 is present, then TD512 is required.
6. C1413 - If TD514 is present, then TD513 is required.
7. C1512 - If TD515 is present, then TD512 is required.

Semantics:

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.

EXAMPLE:

*TD5*O2*JSOD**J S OVERLAND*

Note:

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.

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.

REF Reference Identification

Pos: 150	Max: >1
Detail - Optional	
Loop: HL	Elements: 2

User Option (Usage): Used

Purpose: To specify identifying information

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
REF01	128	**Reference Identification Qualifier**	M	ID	2/3	Must use
		Description: Code qualifying the Reference Identification				
		CodeList Summary (Total Codes: 1503, Included: 3)				
		Code **Name** BM Bill of Lading Number CM Buyer's Credit Memo MB Master Bill of Lading				
REF02	127	**Reference Identification**	C	AN	1/30	Must use
		Description: Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier				

Syntax Rules:

1. R0203 - At least one of REF02 or REF03 is required.

Semantics:

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

EXAMPLE:

*REF*BM*00778962050009589*
*REF*CN*DSWU97201000*

Note:

In some cases, individual shipments with bill of lading may be grouped under a Master Bill of Lading. Under this circumstance, specifying both the bill of lading and the associated Master Bill of Lading Number will facilitate tracking. NOTE: Although both are accepted, either BM or MB is required to be present

DTM Date/Time Reference

Pos: 200	Max: 10
Detail - Mandatory	
Loop: HL	Elements: 2

User Option (Usage): Must use

Purpose: To specify pertinent dates and times

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
DTM01	374	**Date/Time Qualifier**	M	ID	3/3	Must use
		Description: Code specifying type of date or time, or both date and time				
		CodeList Summary (Total Codes: 1112, Included: 1)				
		Code **Name**				
		011 Shipped				
DTM02	373	**Date**	C	DT	8/8	Must use
		Description: Date expressed as CCYYMMDD				

Syntax Rules:

1. R020305 - At least one of DTM02, DTM03 or DTM05 is required.
2. C0403 - If DTM04 is present, then DTM03 is required.
3. P0506 - If either DTM05 or DTM06 is present, then the other is required.

EXAMPLE:

*DTM*011*20050915*
*DTM*067*20050918*

DTM Date/Time Reference

Pos: 200	Max: 10
Detail - Optional	
Loop: HL	Elements: 2

User Option (Usage): Used

Purpose: To specify pertinent dates and times

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
DTM01	374	**Date/Time Qualifier**	M	ID	3/3	Must use
		Description: Code specifying type of date or time, or both date and time				
		CodeList Summary (Total Codes: 1112, Included: 1)				
		Code **Name**				
		067 Current Schedule Delivery				
DTM02	373	**Date**	C	DT	8/8	Must use
		Description: Date expressed as CCYYMMDD				

Syntax Rules:

1. R020305 - At least one of DTM02, DTM03 or DTM05 is required.
2. C0403 - If DTM04 is present, then DTM03 is required.
3. P0506 - If either DTM05 or DTM06 is present, then the other is required.

EXAMPLE:

*DTM*011*20050915*
*DTM*067*20050918*

FOB F.O.B. Related Instructions

Pos: 210	Max: 1
Detail - Optional	
Loop: HL	Elements: 1

User Option (Usage): Used

Purpose: To specify transportation instructions relating to shipment

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
FOB01	146	**Shipment Method of Payment**	M	ID	2/2	Used
		Description: Code identifying payment terms for transportation charges **All valid standard codes are used. (Total Codes: 28)**				

Syntax Rules:

1. C0302 - If FOB03 is present, then FOB02 is required.
2. C0405 - If FOB04 is present, then FOB05 is required.
3. C0706 - If FOB07 is present, then FOB06 is required.
4. C0809 - If FOB08 is present, then FOB09 is required.

Semantics:

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.

EXAMPLE:

*FOB*PP*
*FOB*CC*

Loop Name

Pos: 220	Repeat: 200
Mandatory	
Loop: N1	Elements: N/A

User Option (Usage): Used

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

Loop Summary:

Pos	Id	Segment Name	Req	Max Use	Repeat	Usage
220	N1	Name	M	1		Used
240	N3	Address Information	O	2		Used
250	N4	Geographic Location	M	1		Used

N1 Name

Pos: 220	Max: 1
Detail - Mandatory	
Loop: N1	Elements: 4

User Option (Usage): Used

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

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
N101	98	**Entity Identifier Code**	M	ID	2/3	Must use
		Description: Code identifying an organizational entity, a physical location, property or an individual				
		CodeList Summary (Total Codes: 1312, Included: 2) **Code** **Name** SF Ship From ST Ship To				
N102	93	**Name**	C	AN	1/60	Used
		Description: Free-form name				
N103	66	**Identification Code Qualifier**	C	ID	1/2	Must use
		Description: Code designating the system/method of code structure used for Identification Code (67)				
		CodeList Summary (Total Codes: 215, Included: 2) **Code** **Name** 91 Assigned by Seller or Seller's Agent 92 Assigned by Buyer or Buyer's Agent				
N104	67	**Identification Code**	C	AN	2/80	Must use
		Description: Code identifying a party or other code				
		User Note 1: *This element must contain the actual DSW DC number provided in the 850/860 N104 ST loop. Current ship-to locations for DSW are 99999 and 99995.*				

Syntax Rules:

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

Comments:

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

EXAMPLE:

*N1*SF*DSWVENDOR*91*00*
*N1*ST*DSW SHOE WAREHOUSE*92*99999*

Note:

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

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

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

N3 Address Information

Pos: 240	Max: 2
Detail - Optional	
Loop: N1	Elements: 1

User Option (Usage): Used

Purpose: To specify the location of the named party

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
N301	166	**Address Information** **Description:** Address information	M	AN	1/55	Must use

EXAMPLE:

*N3*4150 EAST FIFTH STREET*

N4 Geographic Location

Pos: 250	Max: 1
Detail - Mandatory	
Loop: N1	Elements: 3

User Option (Usage): Used

Purpose: To specify the geographic place of the named party

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
N401	19	**City Name**	O	AN	2/30	Used
		Description: Free-form text for city name				
N402	156	**State or Province Code**	O	ID	2/2	Used
		Description: Code (Standard State/Province) as defined by appropriate government agency				
N403	116	**Postal Code**	O	ID	3/15	Used
		Description: Code defining international postal zone code excluding punctuation and blanks (zip code for United States)				

Syntax Rules:

1. C0605 - If N406 is present, then N405 is required.

Comments:

1. A combination of either N401 through N404, or N405 and N406 may be adequate to specify a location.
2. N402 is required only if city name (N401) is in the U.S. or Canada.

EXAMPLE:

*N4*COLUMBUS*OH*43219*

Note:

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

Loop Hierarchical Level

Pos: 010	Repeat: 200000
Mandatory	
Loop: HL	Elements: N/A

User Option (Usage): Must use

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

Loop Summary:

Pos	Id	Segment Name	Req	Max Use	Repeat	Usage
010	HL	Hierarchical Level	M	1		Must use
050	PRF	Purchase Order Reference	M	1		Must use
110	TD1	Carrier Details (Quantity and Weight)	O	20		Must use

HL Hierarchical Level

Pos: 010	Max: 1
Detail - Mandatory	
Loop: HL	Elements: 3

User Option (Usage): Must use

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

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
HL01	628	**Hierarchical ID Number**	M	AN	1/12	Must use
		Description: A unique number assigned by the sender to identify a particular data segment in a hierarchical structure				
HL02	734	**Hierarchical Parent ID Number**	O	AN	1/12	Must use
		Description: Identification number of the next higher hierarchical data segment that the data segment being described is subordinate to				
HL03	735	**Hierarchical Level Code**	M	ID	1/2	Must use
		Description: Code defining the characteristic of a level in a hierarchical structure				
		CodeList Summary (Total Codes: 170, Included: 1)				
		Code **Name**				
		O Order				

Comments:

1. The HL segment is used to identify levels of detail information using a hierarchical structure, such as relating line-item data to shipment data, and packaging data to line-item data.
2. The HL segment defines a top-down/left-right ordered structure.
3. 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.
4. HL02 identifies the hierarchical ID number of the HL segment to which the current HL segment is subordinate.
5. 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.
6. HL04 indicates whether or not there are subordinate (or child) HL segments related to the current HL segment.

EXAMPLE:

*HL*2*1*0*

Note:

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.

PRF Purchase Order Reference

Pos: 050	Max: 1
Detail - Mandatory	
Loop: HL	Elements: 2

User Option (Usage): Must use

Purpose: To provide reference to a specific purchase order

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
PRF01	324	**Purchase Order Number**	M	AN	1/22	Must use
		Description: Identifying number for Purchase Order assigned by the orderer/purchaser				
PRF04	373	**Date**	O	DT	8/8	Used
		Description: Date expressed as CCYYMMDD				

Semantics:

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

EXAMPLE:

*PRF*90191***20050411*

TD1 Carrier Details (Quantity and Weight)

Pos: 110	Max: 20
Detail - Optional	
Loop: HL	Elements: 5

User Option (Usage): Must use

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

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
TD101	103	**Packaging Code**	O	AN	3/5	Must use
		Description: 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				
		CodeList Summary (Total Codes: 148, Included: 1)				
		Code **Name**				
		CTN Carton				
		CodeList Summary (Total Codes: 55, Included: 2)				
		Code **Name**				
		25 Corrugated or Solid				
		76 Paper				
TD102	80	**Lading Quantity**	C	N0	1/7	Must use
		Description: Number of units (pieces) of the lading commodity				
TD106	187	**Weight Qualifier**	O	ID	1/2	Must use
		Description: Code defining the type of weight				
		CodeList Summary (Total Codes: 51, Included: 1)				
		Code **Name**				
		G Gross Weight				
TD107	81	**Weight**	C	R	1/10	Must use
		Description: Numeric value of weight				
		User Note 1: *Weight of the entire order containers.*				
TD108	355	**Unit or Basis for Measurement Code**	C	ID	2/2	Must use
		Description: Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken				
		CodeList Summary (Total Codes: 794, Included: 1)				
		Code **Name**				
		LB Pound				

Syntax Rules:

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

EXAMPLE:

*TD1*CTN25*275****G*7975*LB*

Note:

The segment (order level) is used to specify total containers and gross weight of the order.

Loop Hierarchical Level

Pos: 010	Repeat: 200000
Mandatory	
Loop: HL	Elements: N/A

User Option (Usage): Must use

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

Loop Summary:

Pos	Id	Segment Name	Req	Max Use	Repeat	Usage
010	HL	Hierarchical Level	M	1		Must use
190	MAN	Marks and Numbers	M	>1		Used

HL Hierarchical Level

Pos: 010	Max: 1
Detail - Mandatory	
Loop: HL	Elements: 3

User Option (Usage): Must use

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

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
HL01	628	**Hierarchical ID Number**	M	AN	1/12	Must use
		Description: A unique number assigned by the sender to identify a particular data segment in a hierarchical structure				
HL02	734	**Hierarchical Parent ID Number**	O	AN	1/12	Must use
		Description: Identification number of the next higher hierarchical data segment that the data segment being described is subordinate to				
HL03	735	**Hierarchical Level Code**	M	ID	1/2	Must use
		Description: Code defining the characteristic of a level in a hierarchical structure				
		CodeList Summary (Total Codes: 170, Included: 1)				
		Code **Name**				
		P Pack				

Comments:

1. The HL segment is used to identify levels of detail information using a hierarchical structure, such as relating line-item data to shipment data, and packaging data to line-item data.
2. The HL segment defines a top-down/left-right ordered structure.
3. 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.
4. HL02 identifies the hierarchical ID number of the HL segment to which the current HL segment is subordinate.
5. 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.
6. HL04 indicates whether or not there are subordinate (or child) HL segments related to the current HL segment.

EXAMPLE:

*HL*3*2*P*

Note:

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.

MAN Marks and Numbers

Pos: 190	Max: >1
Detail - Mandatory	
Loop: HL	Elements: 2

User Option (Usage): Used

Purpose: To indicate identifying marks and numbers for shipping containers

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
MAN01	88	**Marks and Numbers Qualifier**	M	ID	1/2	Must use
		Description: Code specifying the application or source of Marks and Numbers (87)				
		CodeList Summary (Total Codes: 20, Included: 1)				
		Code **Name**				
		GM SSCC-18 and Application Identifier				
MAN02	87	**Marks and Numbers**	M	AN	1/48	Must use
		Description: Marks and numbers used to identify a shipment or parts of a shipment				

Syntax Rules:

1. P0405 - If either MAN04 or MAN05 is present, then the other is required.
2. C0605 - If MAN06 is present, then MAN05 is required.

Semantics:

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.
3. 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.

EXAMPLE:

*MAN*GM*00000778965237761602*

Loop Hierarchical Level

Pos: 010	Repeat: 200000
Mandatory	
Loop: HL	Elements: N/A

User Option (Usage): Must use

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

Loop Summary:

Pos	Id	Segment Name	Req	Max Use	Repeat	Usage
010	HL	Hierarchical Level	M	1		Must use
020	LIN	Item Identification	O	1		Must use
030	SN1	Item Detail (Shipment)	O	1		Used

HL Hierarchical Level

Pos: 010	Max: 1
Detail - Mandatory	
Loop: HL	Elements: 3

User Option (Usage): Must use

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

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
HL01	628	**Hierarchical ID Number**	M	AN	1/12	Must use
		Description: A unique number assigned by the sender to identify a particular data segment in a hierarchical structure				
HL02	734	**Hierarchical Parent ID Number**	O	AN	1/12	Must use
		Description: Identification number of the next higher hierarchical data segment that the data segment being described is subordinate to				
HL03	735	**Hierarchical Level Code**	M	ID	1/2	Must use
		Description: Code defining the characteristic of a level in a hierarchical structure				
		CodeList Summary (Total Codes: 170, Included: 1)				
		Code **Name**				
		I Item				

Comments:

1. The HL segment is used to identify levels of detail information using a hierarchical structure, such as relating line-item data to shipment data, and packaging data to line-item data.
2. The HL segment defines a top-down/left-right ordered structure.
3. 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.
4. HL02 identifies the hierarchical ID number of the HL segment to which the current HL segment is subordinate.
5. 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.
6. HL04 indicates whether or not there are subordinate (or child) HL segments related to the current HL segment.

EXAMPLE:

*HL*4*3*I*

Note:

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.

LIN Item Identification

Pos: 020	Max: 1
Detail - Optional	
Loop: HL	Elements: 10

User Option (Usage): Must use

Purpose: To specify basic item identification data

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
LIN02	235	**Product/Service ID Qualifier**	M	ID	2/2	Must use
		Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234)				
		CodeList Summary (Total Codes: 477, Included: 1) **Code** **Name** UP U.P.C. Consumer Package Code (1-5-5-1)				
LIN03	234	**Product/Service ID**	M	AN	1/48	Must use
		Description: Identifying number for a product or service				
LIN10	235	**Product/Service ID Qualifier**	M	ID	2/2	Must use
		Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234)				
		CodeList Summary (Total Codes: 477, Included: 1) **Code** **Name** VC Vendor's (Seller's) Catalog Number				
LIN11	234	**Product/Service ID**	M	AN	1/48	Must use
		Description: Identifying number for a product or service				
LIN12	235	**Product/Service ID Qualifier**	O	ID	2/2	Used
		Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234)				
		CodeList Summary (Total Codes: 477, Included: 1) **Code** **Name** CM National Retail Merchants Association Color Code				
LIN13	234	**Product/Service ID**	O	AN	1/48	Used
		Description: Identifying number for a product or service				
LIN14	235	**Product/Service ID Qualifier**	O	ID	2/2	Used
		Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234)				
		CodeList Summary (Total Codes: 477, Included: 1) **Code** **Name** SM National Retail Merchants Association Size Code				
LIN15	234	**Product/Service ID**	O	AN	1/48	Used

Ref	Id	Element Name	Req	Type	Min/Max	Usage
		Description: Identifying number for a product or service				
LIN16	235	**Product/Service ID Qualifier**	O	ID	2/2	Used
		Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234)				
		CodeList Summary (Total Codes: 477, Included: 1) **Code** **Name** JP Package Type Code				
LIN17	234	**Product/Service ID**	O	AN	1/48	Used
		Description: Identifying number for a product or service				
		User Note 1: *DSW 4-6 digit prepack code*				

Syntax Rules:

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

Semantics:

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.

EXAMPLE:

*LIN**UP*018463533DSW*******VC*J564VEN*

Note:

The LIN02/03 (UPC number) and the LIN10/11 (vendor item number) are Mandatory and must be sent in the ASN.

SN1 Item Detail (Shipment)

Pos: 030	Max: 1
Detail - Optional	
Loop: HL	Elements: 2

User Option (Usage): Used

Purpose: To specify line-item detail relative to shipment

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
SN102	382	**Number of Units Shipped**	M	R	1/10	Must use
		Description: Numeric value of units shipped in manufacturer's shipping units for a line item or transaction set				
SN103	355	**Unit or Basis for Measurement Code**	M	ID	2/2	Must use
		Description: Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken				
		CodeList Summary (Total Codes: 794, Included: 2)				
		Code **Name**				
		CA Case				
		EA Each				

Syntax Rules:

1. P0506 - If either SN105 or SN106 is present, then the other is required.

Semantics:

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

Comments:

1. SN103 defines the unit of measurement for both SN102 and SN104.

EXAMPLE:

*SN1**1*EA*

CTT Transaction Totals

Pos: 010	Max: 1
Summary - Optional	
Loop: N/A	Elements: 1

User Option (Usage): Must use

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

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
CTT01	354	**Number of Line Items**	M	N0	1/6	Must use
		Description: Total number of line items in the transaction set				

Syntax Rules:

1. P0304 - If either CTT03 or CTT04 is present, then the other is required.
2. P0506 - If either CTT05 or CTT06 is present, then the other is required.

Comments:

1. This segment is intended to provide hash totals to validate transaction completeness and correctness.

EXAMPLE:

*CTT*100*

SE Transaction Set Trailer

Pos: 020	Max: 1
Summary - Mandatory	
Loop: N/A	Elements: 2

User Option (Usage): Must use

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)

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
SE01	96	**Number of Included Segments**	M	N0	1/10	Must use
		Description: Total number of segments included in a transaction set including ST and SE segments				
SE02	329	**Transaction Set Control Number**	M	AN	4/9	Must use
		Description: Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set				
		User Note 1: *This must be the same number as is in the ST segment (ST02) for the transaction set.*				

Comments:

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

GE Functional Group Trailer

Pos:	Max: 1
Not Defined - Mandatory	
Loop: N/A	Elements: 2

User Option (Usage): Must use

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

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
GE01	97	**Number of Transaction Sets Included**	M	N0	1/6	Must use
		Description: Total number of transaction sets included in the functional group or interchange (transmission) group terminated by the trailer containing this data element				
GE02	28	**Group Control Number**	M	N0	1/9	Must use
		Description: Assigned number originated and maintained by the sender				

Semantics:

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

Comments:

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

IEA Interchange Control Trailer

Pos:	Max: 1
Not Defined - Mandatory	
Loop: N/A	Elements: 2

User Option (Usage): Must use

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

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
IEA01	I16	**Number of Included Functional Groups**	M	N0	1/5	Must use
		Description: A count of the number of functional groups included in an interchange				
IEA02	I12	**Interchange Control Number**	M	N0	9/9	Must use
		Description: A control number assigned by the interchange sender				

EXAMPLE:

V4010 856 DATA EXAMPLE:

*ISA*00* *00* *ZZ*0000000000 *ZZ*137885864T *060317*1432*U*00401*000000014*0*T*>*
*GS*SH*0000000000*137885864T*20060317*1432*1000011*X*004010*
*ST*856*0001*
*BSN*00*9767*20060317*1432*0001*
*HL*1**S*
*TD1*CTN25*2****G*10*LB*
*TD5*O*2*RDWY*M*ROADWAY*
*REF*BM*00630160317143205*
*REF*MB*00630160317143205*
*REF*CN*1321564*
*DTM*011*20060314*
*DTM*067*20060317*
*FOB*PP*
*N1*ST**92*99999*
*N3*4150 EAST FIFTH AVENUE*
*N4*COLUMBUS*OH*43219*
*N1*SF*Vendor*92*00000000000*
*N3*1234 Anywhere Ave*
*N4*Columbus*OH*43209*
*HL*2*1*O*
*PRF*1111***20060223*
*TD1*CTN25*2****G*10*LB*
*REF*IV*02ZDW*
*HL*3*2*P*
*MAN*GM*00000630160001004812*
*HL*4*3*I*
*LIN**UP*123456789012***CM*011*SM*50305*VC*VENDNUM*
*SN1**1*EA*
*HL*5*3*I*
*LIN**UP*234567890123***CM*011*SM*50345*VC*VENDNUM*
*SN1**2*EA*
*HL*6*3*I*
*LIN**UP*345678901234***CM*011*SM*50385*VC*VENDNUM*
*SN1**2*EA*
*HL*7*3*I*
*LIN**UP*456789012345***CM*011*SM*50425*VC*VENDNUM*
*SN1**2*EA*
*HL*8*3*I*

*LIN**UP*678901234567***CM*011*SM*50465*VC*VENDNUM*
*SN1**2*EA*
*HL*9*3*I*
*LIN**UP*789012345678***CM*011*SM*50505*VC*VENDNUM*
*SN1**2*EA*
*HL*10*3*I*
*LIN**UP*890123456789***CM*011*SM*50545*VC*VENDNUM*
*SN1**1*EA*
*HL*11*2*P*
*MAN*GM*00000630160001004829*
*HL*12*11*I*
*LIN**UP*123456789012***CM*100*SM*50305*VC*VENDNUM*
*SN1**1*EA*
*HL*13*11*I*
*LIN**UP*234567890123***CM*100*SM*50345*VC*VENDNUM*
*SN1**2*EA*
*HL*14*11*I*
*LIN**UP*345678901234***CM*100*SM*50385*VC*VENDNUM*
*SN1**2*EA*
*HL*15*11*I*
*LIN**UP*456789012345***CM*100*SM*50425*VC*VENDNUM*
*SN1**2*EA*
*HL*16*11*I*
*LIN**UP*678901234567***CM*100*SM*50465*VC*VENDNUM*
*SN1**2*EA*
*HL*17*11*I*
*LIN**UP*789012345678***CM*100*SM*50505*VC*VENDNUM*
*SN1**1*EA*
*HL*18*11*I*
*LIN**UP*890123456789***CM*100*SM*50545*VC*VENDNUM*
*SN1**1*EA*
*HL*11*2*P*
*MAN*GM*00000630160001004830*
*HL*12*11*I*
*LIN**UP*890123456789***CM*100*SM*50305*VC*VENDNUM*
*SN1**2*EA*
*CTT*18*
*SE*69*0001*
*GE*1*1000011*
*IEA*1*000000014*