856 Advanced Ship Notice

Functional Group SH

This Draft Standard for Trial Use contains the format and establishes the data contents of the Ship Notice 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.

Heading

	POS. NO.	SEG. ID	NAME	REQ. DES.	MAX USE	LOOP REPEAT
Required	010	ST	Transaction Set	M	1	
		501	Header			
Required	020	BSN	Beginning Segment for Ship Notice	M	1	

Detail

	POS. NO.	SEG. ID	NAME	REQ. DES.	MAX USE	LOOP REPEAT
			LOOP ID - HLS			200000
Required	010	HL	Hierarchical Level –	M	1	
			Shipment			
Required	120	TD5	Carrier Details (Routing Sequence/Transit Time	M	12	
Required	150	REF	Reference Identification	M	>1	
Required	200	DTM	Date/Time Reference	M	10	
			LOOP ID – N1			200
Required	220	N1	Name	M	1	
			LOOP ID – HLO			200000
Required	010	HL	Hierarchical Level – Order	M	1	
Required	050	PRF	Purchase Order Reference	M	1	
			LOOP ID - N1			200
Required	220	N1	Name	M	1	
Required	240	N3	Address Information	0	1	
Required	250	N4	Geographic Location	0	1	
			LOOP ID - HLP			200000
Required	010	HL	Hierarchical Level -	M	1	
			Pack	_		
Required	060	PO4	Item Physical Details	0	1	
Required	190	MAN	Marks and Numbers	M	1	
			LOOP ID – HLI			200000
Required	010	HL	Hierarchical Level –	M	1	
Daniel I	000	1.181	Item		4	
Required	020	LIN	Item Identification	M	7	
Required	030	SN1	Item Detail (Shipment)	M	1	

Summary

	POS. NO.	SEG. ID	NAME	REQ. DES.	MAX USE	LOOP REPEAT
Required	010	CTT	Transaction Totals	М	1	
Required	020	SE	Transaction Set Totals	M	1	·

Business Example of an 810 Document:

EDI Transmission Data	Explanation
ST*856*5970~	856 is the Transaction Set Identifier Code
	for Ship Notice Transaction Set.
	5970 is the transaction set control
	number.
BSN*00*S002579128*20040401~	00 is the transaction set purpose code for original
	S005666869 is the shipment ID number
	20040401 is the date
HL*1**S~	1 indicates the first level of the hierarchy
	S is the hierarchal level code for shipment
TD5*B*2*INDUPSCR4562~	B is the routing sequence code
	2 is the identification code qualifier for standard
	carrier
	alpha code (SCAC)
	INDUPSCR4562 is the identification code
REF*BM*INDUPSCR4562~	BM and CN are the reference identification qualifiers
REF*CN*05759259~	for the reference codes that follow them
DTM*011*20040401~	011 is the date qualifier for date shipped
	20040401 is the date referenced by DTM01
N1*ST*STORE_NAME*09*0229457420123~	ST, Ship To, precedes the free-form name
	of the recipient, STORE_NAME
	09 is the code for the recipient's DUNS+4
	number and precedes that number,
111 *0*4*0	0229457420123
HL*2*1*O~	2 indicates the second level of the hierarchy
	1 indicates the hierarchal parent level
DDC*050 0702052 0554	O is the hierarchal level code for order
PRF*059-0783653-0551~	059-0783653-0551 is the purchase order number
N1*BY**92*0551~	BY is the entity identifier code for buying party
	92 indicates the code is buyer assigned
NO*400 MECT CEREET	0551 is the identification code 123 WEST STREET is the street address
N3*123 WEST STREET~	
N4*BOSTON*MA*02135~	of the recipient BOSTON is the city name of the recipient
144 BOSTON WA 02133~	MA is the state code
	02135 is the zip code
HL*3*2*P~	3 indicates the second level of the hierarchy
NL 3 2 F~	2 indicates the second level of the fileratchy
	P is the hierarchal level code for pack
PO4*1*12*EA~	1 is the number of inner containers
104 1 12 LA~	12 is the size of the supplier units in the pack
	EA is the unit or basis of measurement code for
	each
MAN*GM*00097803160058765944~	GM is the marks and numbers qualifier for UCC-128
MAN 6M 00037000100030703344	format code, 00097803160058765944 which follows
HL*4*3*I~	4 indicates the second level of the hierarchy
⊓L 4 3 I~	
	3 indicates the hierarchial parent level
LIN**CB*059050474*IB*0736400117~	I is the hierarchial level code for item
LIN" CD"U39U3U4/4"IB"U/364UU11/~	CB is the product ID qualifier for buyer's catalog #
	IB is the product ID qualifier for ISBN

SN1*7*8*EA~	7 is the assigned identification number 8 is the number of units shipped and EA is the unit or basis of measurement code
LIN**CB*059050474*IB*0736400117~	CB is the product ID qualifier for buyer's catalog # IB is the product ID qualifier for ISBN
CTT*1~	1 is the number of line items in the ship notice,
SE*22*5970~	22 is the total number of segments included in the ship notice, including ST and SE segments 5970 is the identifying set control number matching ST02 segment

Segment: ST Transaction Set Header

Position: 010 Level: Heading

Loop:

Usage: Mandatory

Max Use: 1

Purpose: To indicate the start of a transaction set and to assign a control number. **Semantic:** 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).

Data Element Summary:

	Ref. Des.	Data Element	Name		Attributes	Min/Max Length
Required	ST01	143	Transaction Set Header Identifier Code uniquely identifying a Transaction 856 Ship Notice/Manifest	M/Z Set	ID	3/3
Required	ST02	329	Transaction Set Control Number Identifying control number that must be functional group assigned by the original			4/9 on set

Segment: BSN Beginning Segment for Ship Notice

Position: 020

Loop: Level: Heading Mandatory Usage:

Max Use:

To transmit identifying numbers, dates, and other basic data relating to the transaction set **1.** If BSN07 is present, then BSN06 is required. Purpose:

Syntax:

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

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

3. BSN06 is limited to shipment related codes.

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

Ref. Des.	Data Element	Name	A	ttributes	Min/Max Length
BSN01	353	Transaction Set Purpose Code	M	ID	2/2
		Code identifying purpose of transaction :	set		
		0 Original			
BSN02	396	Shipment Information	M	AN	2/30
		A unique control number assigned by the	e original sh	ipper to identify a	specific
		shipment. This must be a unique number can be used to identify the shipment and			
		packing slip to the printed packing slip de	ocument sei	nt with the goods.	
BSN03	373	Date	M	DT	8/8
		Date expressed as CCYYMMDD			
BSN04	337	Time	M	TM	4/8
		Time expressed in 24-hour clock time as	follows: HF	HMM, or HHMMSS	, or
		HHMMSSD, or HHMMSSDD, where H =	hours (00-2	23), M = minutes (00-59), S =
		integer seconds (00-59) and DD = decim	nal seconds;	decimal seconds	are
		expressed as follows: D = tenths (0-9) as	nd DD = hur	ndredths (00-99)	
BSN05	1005	Hierarchical Structure Code	M	ID	4/4
		Code indicating the hierarchical application	ion structure	of a transaction s	et that
		utilizes the HL segment to define the stru	ucture of the	transaction set.	

Segment: HL Hierarchical Level – Shipment

Position: 010

Loop: HLS Mandatory

Level: Detail Usage: Mandatory

Max Use:

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

segments
Syntax:
Semantic:
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.

Data Element Summary:

Ref. D	Data				Min/Max		
Des. E	Element	Name		Attributes	Length		
HL01 6	528	Hierarchical ID Number	M	AN	1/12		
		A unique number assigned by the sende a hierarchical structure.	r to identi	fy a particular d	ata segment in		
HL02 7	734	Hierarchical Parent ID Number	0	AN	1/12		
		Identification number of the next higher hierarchical data segment that the data segment being described is subordinate to.					
HL03 7	735	Hierarchical Level Code	M	ID	1/2		
		Code defining the characteristic of a leve S Shipment	el in a hier	archical structu	re		

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

Position: 120
Loop: HLS M
Level: Detail
Usage: Mandatory
Max Use: 12

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

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

If TD502 is present, then TD503 is required.
 If TD507 is present, then TD508 is required.
 If TD510 is present, then TD511 is required.
 If TD513 is present, then TD512 is required.
 If TD514 is present, then TD513 is required.
 If TD515 is present, then TD512 is required.

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

Comments: 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.

Data Element Summary:

Ref.	Data				Min/Max
Des.	Element	Name		Attributes	Length
TD501	133	Routing Sequence Code	М	ID	1/2
TD502	66	Code describing the relationship of a calldentification Code Qualifier	rrier t	o a specific shipment mov	vement 1/2
		Code designating the system/method of Code (67)	code	e structure used for Identif	ication
TD503	67	Identification Code Code identifying a party or other code	М	AN	2/80

Segment: REF Reference Identification

Position: 150
Loop: HLS
Level: Detail
Usage: Mandatory

Max Use: >1

Purpose: To specify identifying information

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

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

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

Data Element Summary:

Re:		ata Iement	Name		Attributes	Min/Max Length
RE	F01 12	28	Reference Identification Qualifier	М	ID	2/3
			Code qualifying the Reference Identifica	ation		
RE	EF02 12	27	Reference Identification	M	AN	1/30
			Reference information as defined for a p by the Reference Identification Qualifier		r Transaction Set	or as specified

Segment: DTM Date/Time Reference

Position: 200
Loop: HLS M
Level: Detail
Usage: Mandatory

Max Use: 10

Purpose: To specify pertinent dates and times

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

Ref.	Data				Min/Max
Des.	Element	Name		Attributes	Length
DTM01	374	Date/Time Qualifier	M	ID	3/3
		Code specifying type of date or tim	ne, or both dat	e and time	
DTM02	373	Date	M	DT	8/8
		Date expressed as CCYYMMDD			

N1 Name Segment: Position: 220

Loop: N1 Level: Detail Usage: Mandatory

Max Use:

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

Syntax:

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

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

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.

Ref. Des.	Data Element	Name		Attributes	Min/Max Length		
N101	98	Entity Identifier Code	M	ID	2/3		
		Code identifying an organizational entity individual ST Ship To	, a physic	al location, propert	y or an		
N102	93	Name	М	AN	1/60		
		Free-form name			.,		
N103	66	Identification Code Qualifier	M	ID	1/2		
		Code designating the system/method of code structure used for Identification Code (67) 92 Assigned by Buyer or Buyer's Agent					
N104	67	Identification Code	M	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 form 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.					

Segment: HL Hierarchical Level – Order

Position: 010
Loop: HLO
Level: Detail
Usage: Mandatory

Max Use:

Purpose:

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

segments

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.

Ref. Des.	Data Element	Name		Attributes	Min/Max Length
HL0	1 628	Hierarchical ID Number	М	AN	1/12
		A unique number assigned by the sea hierarchical structure	ender to ide	entify a particular da	ata segment in
HL0	2 734	Hierarchical Parent ID Number	M	AN	1/12
		Identification number of the next high segment being described is subording		nical data segment	that the data
HL0	3 735	Hierarchical Level Code	M	ID	1/2
		Code defining the characteristic of a O Order	level in a h	nierarchical structur	е

Segment: PRF Purchase Order Reference

Position: 050
Loop: HLO
Level: Detail
Usage: Mandatory

Max Use:

Purpose: To provide reference to a specific purchase order

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

Data Element Summary:

Ref. Des.	Data Element	Name		Attributes	Min/Max <u>Length</u>
 PRF01	324	Purchase Order Number	М	AN	1/22
		Identifying number for Purchase Order a Retailer's original purchase order numb	_	d by the orderer/pu	rchaser
PRF02	328	Release Number	0	AN	1/30
		Number identifying a release against a parties involved in the transaction	Purchas	se Order previously	placed by the
PRF03	327	Change Order Sequence Number	0	AN	1/8
		Number assigned by the orderer identify previously transmitted transaction set	ying a s	pecific change or re	evision to a
PRF04	373	Date Date expressed as CCYYMMDD Retailer's original purchase order date	0	DT	8/8

Segment: N1 Name
Position: 220
Loop: N1 M
Level: Detail
Usage: Mandatory

Max Use:

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

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

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.

Ref. Des.	Data Element	Name		Attributes	Min/Max Length
N101	98	Entity Identifier Code	M	ID	2/3
		Code identifying an organizational elindividual	ntity, a phy	sical location, prop	erty or an
		BY Buying Party (Purchaser)			
N102	93	Name	X	AN	1/60
		Free-form name			
N103	66	Identification Code Qualifier	M	ID	1/2
		Code designating the system/metho Code (67)	d of code s	tructure used for Id	lentification
		92 Assigned by Buyer or Buyer's	Agent		
N104	67	Identification Code	M	AN	2/80
		Code identifying a party or other cod	le		
		This is the location code as defined number, e.g. DUNS, or it may be as location refers to a store, warehouse codes are used to alleviate the need	by N103. T signed by e e, distribution	either the buyer or s on center, plant, etc	seller. The c. Location

Segment: N3 Address Information

Position: 240
Loop: N1
Level: Detail
Usage: Optional
Max Use: 1

Purpose: To specify the location of the named party

Data Element Summary:

Ref. Data				Min/Max
Des. Element	Name		Attributes	<u>Length</u>
N301 166	Address Information Address information	М	AN	1/55
N302 166	Address Information Address information	0	AN	1/55

Segment: N4 Geographic Location

Position: 250
Loop: N1
Level: Detail
Usage: Optional

Max Use: 1

Purpose: To specify the geographic place of the named party

Syntax: 1. 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.

Data Element Summary:

	Data Element	Name		Attributes	Min/Max Length
N401	19	City Name	М	AN	2/30
		Free-form text for city name			
N402	156	State or Province Code	M	ID	2/2
		Code (Standard State/Province) as defin	ned by a	appropriate governn	nent agency
N403	116	Postal Code	0	i D	3/15
		Code defining international postal zone (zip code for United States)	code ex	cluding punctuation	and blanks
N404	26	Country Code	0	ID	2/3
		Code identifying the country			

Segment: HL Hierarchical Level – Order

Position: 010
Loop: HLO
Level: Detail
Usage: Mandatory

Max Use: 1

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

segments

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. 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.

2. HL02 identifies the hierarchical ID number of the HL segment to which the current HL

segment is subordinate.

- **3.** 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.
- **4.** HL04 indicates whether or not there are subordinate (or child) HL segments related to the current HL segment.

Data Element Summary:

 Ref. Des.	Data Element	Name		Attributes	Min/Max Length
HL01	628	Hierarchical ID Number	М	AN	1/12
		A unique number assigned by the send a hierarchical structure	der to ide	ntify a particular da	ta segment in
HL02	734	Hierarchical Parent ID Number	M	AN	1/12
		Identification number of the next higher segment being described is subordinated.		nical data segment	that the data
HL03	735	Hierarchical Level Code	M	ID	1/2
		Code defining the characteristic of a le P Pack	vel in a h	ierarchical structure	Э

Segment: PO4 Item Physical Details

Position: 60
Loop: HLP
Level: Detail
Usage: Optional

Max Use: 1

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

Syntax: 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:

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.
 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 pack (PO401) /size (PO402) measure which indicates the quantity in the inner pack unit. 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.

	Ref. Des.	Data Element	Name		Attributes	Min/Max Length
1	PO401	356	Pack	0	N0	1/6
			The number of inner containers, or num containers, per outer container The number of inner cartons or the num are no inner packs.			
F	PO402	357	Size	Χ	R	1/8
	PO403	355	Size of supplier units in pack Unit or Basis for Measurement Code	x	ID	2/2

		Code specifying the units in which a va	lue is bein	g expressed, or	manner in
PO404	402	which a measurement has been taken	X	AN	3/5
PO404	103	Packaging Code	X	AN	3/3
		Code identifying the type of packaging			
		Part 1: Packaging Form	□		4 :1
		Part 2: Packaging Material; if the Data	Element is	s used, then Part	i is always
PO405	187	required Weight Qualifier	0	ID	1/2
FU403	101	Code defining the type of weight	U	טו	1/2
PO406	384	Gross Weight per Pack	X	R	1/9
F 0400	304	Numeric value of gross weight per pack		N	1/3
PO407	355	Unit or Basis for Measurement Code		ID	2/2
1 0407	333	Code specifying the units in which a va			
		which a measurement has been taken	iue is bein	ig expressed, or i	manner m
PO408	385	Gross Volume per Pack	X	R	1/9
1 0 400	000	Numeric value of gross volume per pac			1,75
PO409	355	Unit or Basis for Measurement Code		ID	2/2
		Code specifying the units in which a va		a expressed, or i	
		which a measurement has been taken		9	
PO410	82	Length	Χ	R	1/8
		Largest horizontal dimension of an obje	ect measu	red when the obj	ect is in the
		upright position		·	
PO411	189	Width	Χ	R	1/8
		Shorter measurement of the two horizo	ntal dimer	nsions measured	with the object
		in the upright position			
PO412	65	Height	Χ	R	1/8
		Vertical dimension of an object measur	ed when t	he object is in the	e upright
		position			
PO413	355	Unit or Basis for Measurement Code		ID	2/2
		Code specifying the units in which a va	lue is bein	g expressed, or i	manner in
DO 44 1	040	which a measurement has been taken	_	110	410
PO414	810	Inner Pack	0	N0	1/6
		The number of eaches per inner contain	ner		

Segment: MAN Marks and Numbers

Position: 190
Loop: HLP
Level: Detail
Usage: Mandatory

Max Use:

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

2. If MAN06 is present, then MAN05 is required.

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

numbers assigned to the same physical container.

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

range and MAN03 is the ending number of that range.

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

range, and MAN06 is the ending number of that range.

Comments: 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. 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.

Ref. Data				Min/Max
Des. Elem	ent Name		Attributes	<u>Length</u>
MAN01 88	Marks and Numbers Qualifier	М	ID	1/2
	Code specifying the application of	r source of Mai	rks and Numbers	(87)
MAN02 87	Marks and Numbers	M	AN	1/48
	Marks and numbers used to ident	ify a shipment	or parts of a shir	ment

Segment: **HL** Hierarchical Level – Item

Position: 010
Loop: HLI
Level: Detail
Usage: Mandatory

Max Use:

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

segments

Comments: 1. To identify dependencies among and the content of hierarchically related groups of data

segments 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.

Ref. Des.	Data Element	Name			Attributes	Min/Max Length
HL01	628	Hierarchical ID Number	М	AN	1/12	
		A unique number assigned by thierarchical structure	he sender	to identify a part	ticular data segment i	n a
HL02	734	Hierarchical Parent ID Number	er M	AN	1/12	
		Identification number of the nex being described is subordinate		erarchical data s	segment that the data	segment
HL03	735	Hierarchical Level Code	М	ID	1/2	
		Code defining the characteristic	of a level	in a hierarchical	structure	

Segment: LIN Item Identification

Position: 20
Loop: HLI
Level: Detail
Usage: Mandatory

Max Use: 1

Purpose: To specify basic item identification data

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

If either LIN06 or LIN07 is present, then the other is required.
 If either LIN08 or LIN09 is present, then the other is required.
 If either LIN10 or LIN11 is present, then the other is required.
 If either LIN12 or LIN13 is present, then the other is required.
 If either LIN14 or LIN15 is present, then the other is required.
 If either LIN16 or LIN17 is present, then the other is required.
 If either LIN18 or LIN19 is present, then the other is required.
 If either LIN20 or LIN21 is present, then the other is required.
 If either LIN22 or LIN23 is present, then the other is required.
 If either LIN24 or LIN25 is present, then the other is required.
 If either LIN26 or LIN27 is present, then the other is required.
 If either LIN28 or LIN29 is present, then the other is required.

Semantic: 1. LIN01 is the line item identification

Comments: 1. LIN02 through LIN31 provide for fifteen different product/service IDs for each item.

14. If either LIN30 or LIN31 is present, then the other is required.

For example: Case, Color, Drawing No., U.P.C. No., ISBN No., Model No., or SKU.

Data Element Summary:

	Ref.	Data					Min/Max
	Des.	Element	Name			Attributes	Length
•	LIN01	350	Assigned Identification	0	AN	1/20	<u>.</u>
			Alphanumeric characters assign	ned for diff	ferentiation withi	n a transaction set	
	LIN02	235	Product/Service ID Qualifier	M	ID	2/2	
			Code identifying the type/source	of the de	escriptive numbe	r used in Product/Ser	vice ID (234)
			EN European Article Number	(EAN) (2-	-5-5-1)		
			UP U.P.C. Consumer Package	Code (1	-5-5-1)		
	LIN03	234	Product/Service ID	M	AN	1/48	
			Identifying number for a product	or servic	e		

Segment: SN1 Item Detail (Shipment)

Position: 030
Loop: HLI
Level: Detail
Usage: Mandatory

Max Use:

Purpose: To specify line-item detail relative to shipment

Syntax: 1. If either SN105 or SN106 is present, then the other is required.

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

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

Ref.	Data				Min/Max
Des.	Element	Name		Attributes	<u>Length</u>
SN10 ²	350	Assigned Identification	0	AN	1/20
		Alphanumeric characters assigned fo	r different	iation within a trans	action set
SN102	382	Number of Units Shipped	M	R	1/10
		Numeric value of units shipped in ma transaction set	nufacture	r's shipping units fo	r a line item or
SN103	355	Unit or Basis for Measurement Cod	le M	ID	2/2
		Code specifying the units in which a which a measurement has been taken		eing expressed, or r	manner in

Segment: CTT Transaction Totals

Position: 010

Loop:

Level: Summary Usage: Mandatory

Max Use: 1

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

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

and correctness.

Data Element Summary:

 Ref. Des.	Data Element	Name		Attributes	Min/Max <u>Length</u>	
CTT01	354	Number of Line Items	М	N0	1/6	
		Total number of line items in the transaction set				

Segment: SE Transaction Set Trailer

Position: 020

Loop:

Level: Summary Usage: Mandatory

Max 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)

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

Ref. Data Des. Elemen	t Name		Attributes	Min/Max Length		
SE01 96	Number of Included Segments	М	N0	1/10		
	Total number of segments included in a transaction set including ST and S segments					
SE02 329	Transaction Set Control Number	M	AN	4/9		
	Identifying control number that must be functional group assigned by the origing this must be the same as in the ST states.	nator for a	r a transaction set			