856 Ship Notice/Manifest

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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.

Heading:

<u>Pos</u>	<u>ld</u>	Segment Name	Req	Max Use	Repeat	<u>Notes</u>	<u>Usage</u>
0100	ST	Transaction Set Header	M	1			Required
0200	BSN	Beginning Segment for Ship Notice	М	1			Required

Detail:

<u>Pos</u>	<u>ld</u>	Segment Name	Req	Max Use	Repeat	<u>Notes</u>	<u>Usage</u>
LOOP ID - HL - S					200000	CN2/0100 <u>L</u>	
0200	HL	Hierarchical Level - SHIPMENT	М	1		CN2/0200	Required
1200	TD1	Carrier Details (Quantity and Weight)	0	20			Used
1300	TD5	Carrier Details (Routing Sequence/Transit Time)	0	12			Used
1600	REF	Reference Identification	0	>1			Used
3400	DTM	Date/Time Reference	0	10			Used
LOOP ID - N1					<u>200</u>		
3800	N1	Name	0	1			Used
3900	N2	Additional Name Information	0	2			Used
4000	N3	Address Information	0	2			Used
4100	N4	Geographic Location	0	1			Used
LOOP ID	- HL - O				200000		
4300	HL	Hierarchical Level - ORDER	М	1			Required
4400	PRF	Purchase Order Reference	0	1			Used
LOOP ID	- CLD				<u>200</u>	,	
4600	CLD	Load Detail	0	1			Used
4700	REF	Reference Identification	0	200			Used

Heading:

<u>Pos</u>	<u>ld</u>	Segment Name	<u>Req</u>	Max Use	<u>Repeat</u>	<u>Notes</u>	<u>Usage</u>

<u>Pos</u>	<u>ld</u>	Segment Name	<u>Req</u>	Max Use	Repeat	<u>Notes</u>	<u>Usage</u>
LOOP ID	<u>- HL - T</u>				<u>>1</u>	N1/0100L	
0200	HL	Hierarchical Level - TARE	M	1		N1/0200	Used
LOOP ID	- BS3				<u>1</u>	N1/3600L	
3700	PAL	Pallet Information	0	1		N1/3700	Used
3800	MAN	Marks and Numbers	0	10			Used

Detail:

<u>Pos</u>	<u>ld</u>	Segment Name	Req	Max Use	Repeat	<u>Notes</u>	<u>Usage</u>
0200 HL					200000		
		Hierarchical Level - PACK	М	1			Required
0300	MEA	Measurements	0	40			Used
0400	MAN	Marks and Numbers	0	>1			Used
LOOP ID	<u>- N1</u>				<u>200</u>		
3800	N1	Name	0	1			Used
3900	N2	Additional Name Information	0	2			Used
4000	N3	Address Information	0	2			Used
4100 N4		Geographic Location	0	1			Used
LOOP ID	- HL - I		-		200000		

LOOP ID	<u>- HL - I</u>		<u>200000</u>			
0600	HL	Hierarchical Level - ITEM	М	1		Required
0700	LIN	Item Identification	0	1		Used
0800	SN1	Item Detail (Shipment)	0	1		Used
0900	SLN	Subline Item Detail	0	1000		Used
1000	MEA	Measurements	0	40		Used
1100	CUR	Currency	0	1		Used

Summary:

<u>Pos</u>	<u>ld</u>	Segment Name	Req	Max Use	Repeat	<u>Notes</u>	<u>Usage</u>
0100	CTT	Transaction Totals	0	1		N3/0100	Required
0200	SE	Transaction Set Trailer	М	1			Required

Notes:

2/0100L Table 2 has 4 different HL Loop formats to define the Shipment, Order, Pack and Item Hierarchical Levels. The loop ID has been changed to reflect the HL03 Hierarchical Level Code to use with the format defined in that HL loop.

(S-shipment, O-order, P-pack, I-item)

2/0200 Table 2 has 4 different HL Loop formats to define the Shipment, Order, Pack and Item Hierarchical Levels. The loop ID has been changed to reflect the HL03 Hierarchical Level Code to use with the format defined in that HL loop. (S-shipment, O-order, P-pack, I-item)

1/0100L HL01 (Hierarchical ID Number) will be assigned sequentially within the hierarchy starting with one and incremented by one for each HL segment.

HL02 (Hierarchical Parent ID) will have the value of 0 when used at the Shipment Level.

HL03 (Hierarchical Level Code) may only contain the codes: S (Shipment Level), O (Order Level), T (Tare Level), P (Pack Level), Q (Subpack Level), and I (Item Level).

1/0200 HL01 (Hierarchical ID Number) will be assigned sequentially within the hierarchy starting with one and incremented by one for each HL segment.

HL02 (Hierarchical Parent ID) will have the value of 0 when used at the Shipment Level.

HL03 (Hierarchical Level Code) may only contain the codes: S (Shipment Level), O (Order Level), T (Tare Level), P (Pack Level), Q (Subpack Level), and I (Item Level).

1/3600L The BS3 loop may only be used at the Tare (pallet) Level.
 1/3700 The BS3 loop may only be used at the Tare (pallet) Level.
 3/0100 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:

2/0100L The HL segment is the only mandatory segment within the HL loop, and by itself, the HL segment has no meaning.

2/0200 The HL segment is the only mandatory segment within the HL loop, and by itself, the HL segment has no meaning.

ST Transaction Set Header

Pos: 0100 Max: 1 Heading - Mandatory Loop: N/A Elements: 2

User Option (Usage): Required

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

Element Summary:

<u>Ref</u>	<u>ld</u>	Element Name	<u>Req</u>	<u>Type</u>	Min/Max	<u>Usage</u>
ST01	143	Transaction Set Identifier Code	М	ID	3/3	Required
		Description: Code uniquely identifying a Tran	saction	Set		
		Code Name				
		856 X12.10 Ship Notice/Manifest				
ST02	329	Transaction Set Control Number	М	AN	4/9	Required

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: 0200 Max: 1 Heading - Mandatory Loop: N/A Elements: 7

User Option (Usage): Required

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

Element Summary:

Ref	<u>ld</u>	Element Name	Req	Type	Min/Max	<u>Usage</u>
BSN01	353	Transaction Set Purpose Code	M	ID	2/2	Required
		Description: Code identifying purpose of trans	saction	set		
		CodeName00Original05Replace07Duplicate				
BSN02	396	Shipment Identification	М	AN	2/30	Required
		Description: A unique control number assigne shipment	ed by the	e original	shipper to ide	ntify a specific
BSN03	373	Date	М	DT	8/8	Required
		Description: Date expressed as CCYYMMDD)			
BSN04	337	Time	М	TM	4/8	Required
		Description: Time expressed in 24-hour clock HHMMSSD, or HHMMSSDD, where H = hours seconds (00-59) and DD = decimal seconds; clenths (0-9) and DD = hundredths (00-99)	s (00-23), M = mi	nutes (00-59),	S = integer
BSN05	1005	Hierarchical Structure Code	0	ID	4/4	Used
		Description: Code indicating the hierarchical utilizes the HL segment to define the structure				action set that
		Code Name0001 Shipment, Order, Packaging, Item0002 Shipment, Order, Item, Packaging				
* BSN06	640	Transaction Type Code	С	ID	2/2	Not Used
		Description: Code specifying the type of trans	saction			
* BSN07	641	Status Reason Code	0	ID	3/3	Not Used
		Description: Code indicating the status reaso	n			

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.

Loop Hierarchical Level - SHIPMENT

Pos: 0100 Repeat: 200000 Mandatory

Loop: HL - Elements: N/A

User Option (Usage): Required

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

Loop Summary:

<u>Pos</u>	<u>ld</u>	Segment Name	Req	Max Use	<u>Repeat</u>	<u>Usage</u>
0200	HL	Hierarchical Level - SHIPMENT	M	1		Required
1200	TD1	Carrier Details (Quantity and Weight)	0	20		Used
1300	TD5	Carrier Details (Routing Sequence/Transit Time)	0	12		Used
1600	REF	Reference Identification	0	>1		Used
3400	DTM	Date/Time Reference	0	10		Used
3700		Loop N1	0		200	Used

HL Hierarchical Level - SHIPMENT

Pos: 0200 Max: 1 Detail - Mandatory Loop: HL - Elements: 4 S

User Option (Usage): Required

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

Element Summary:

<u>Ref</u>	<u>ld</u>	Element Name	<u>Req</u>	<u>Type</u>	Min/Max	<u>Usage</u>		
HL01	628	Hierarchical ID Number	М	AN	1/12	Required		
		Description: A unique number assigned by the a hierarchical structure	e sende	er to iden	tify a particular	data segment in		
HL02	734	Hierarchical Parent ID Number	Ο	AN	1/12	Used		
		Description: Identification number of the next higher hierarchical data segment that the data segment being described is subordinate to						
HL03	735	Hierarchical Level Code	М	ID	1/2	Required		
		Description: Code defining the characteristic of a level in a hierarchical structure						
		Code Name						
		I Item						
		O Order						
		P Pack						
		S Shipment						
		T Shipping Tare						
HL04	736	Hierarchical Child Code	0	ID	1/1	Used		

Description: Code indicating if there are hierarchical child data segments subordinate to the level being described

Code Name

Additional Subordinate HL Data Segment in This Hierarchical Structure.

TD1 Carrier Details (Quantity and Weight)

Pos: 1200 Max: 20
Detail - Optional
Loop: HL - Elements: 10
S

User Option (Usage): Used

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

<u>Ref</u> TD101	<u>ld</u> 103	Element Name Packaging Code	Req O	<u>Type</u> AN	Min/Max 3/5	<u>Usage</u> Used			
		Description: Code identifying the type of pace Packaging Material	kaging;	Part 1: Pa	ackaging Form,	Part 2:			
		User: The Book Industry uses the following code values:							
		Code Name CNT Container Description: (Gaylord)							
		CTN25 Carton, corrugated or solid PLT94 Pallet, wood UNT76 Unit, paper							
TD102	80	Lading Quantity	С	N0	1/7	Used			
		Description: Number of units (pieces) of the	lading co	ommodity	,				
TD103	23	Commodity Code Qualifier	0	ID	1/1	Used			
		Description: Code identifying the commodity	coding	system us	sed for Commo	dity Code			
		 Code Name Mutually defined. Description: The Book Industry uses 	this valu	e for insu	ırance comodity	/ codes.			
TD104	22	Commodity Code	С	AN	1/30	Used			
		Description: Code describing a commodity of	r group (of commo	odities				
TD105	79	Lading Description	0	AN	1/50	Used			
		Description: Description of an item as require	ed for ra	ting and b	oilling purposes				
TD106	187	Weight Qualifier	0	ID	1/2	Used			
		Description: Code defining the type of weigh	t						
		Code Name G Gross Weight							
TD107	81	Weight	С	R	1/10	Used			
		Description: Numeric value of weight							
TD108	355	Unit or Basis for Measurement Code	С	ID	2/2	Used			
		Description: Code specifying the units in whi which a measurement has been taken	ch a valı	ue is bein	g expressed, o	r manner in			

		CodeNameKGKilogramLBPound				
* TD109	183	Volume	С	R	1/8	Not Used
		Description: Value of volumetric measure				
* TD110	355	Unit or Basis for Measurement Code	С	ID	2/2	Not Used
		Description: Code specifying the units in w which a measurement has been taken	hich a valu	e is being e	expressed, or	manner in

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.

TD5 Carrier Details (Routing Sequence/Transit Time)

Pos: 1300 Max: 12
Detail - Optional
Loop: HL - Elements: 14
S

User Option (Usage): Used

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

Element Summary:

Ref	<u>ld</u>	Element Name	Req	<u>Type</u>	Min/Max	<u>Usage</u>		
TD501	133	Routing Sequence Code	0	ID	1/2	Used		
		Description: Code describing the relationship	of a ca	rrier to a	specific shipme	ent movement		
		Code Name B Origin/Delivery Carrier (Any Mode)						
TD502	66	Identification Code Qualifier	С	ID	1/2	Used		
		Description: Code designating the system/mo	ethod of	code str	ucture used for	Identification		
		 Code Name Standard Carrier Alpha Code (SCAC) Assigned by Seller or Seller's Agent Assigned by Buyer or Buyer's Agent 						
TD503	67	Identification Code	С	AN	2/20	Used		
		Description: Code identifying a party or other	code					
TD504	91	Transportation Method/Type Code	С	ID	1/2	Used		
		Description: Code specifying the method or type of transportation for the shipment						
		Code Name A Air C Consolidation D Parcel Post H Customer Pickup L Contract Carrier M Motor (Common Carrier) P Private Carrier T Best Way (Shippers Option) U Private Parcel Service AE Air Express						
TD505	387	Routing	С	AN	1/35	Used		
		Description: Free-form description of the routing or requested routing for shipment, or originating carrier's identity						
TD506	368	Shipment/Order Status Code	С	ID	2/2	Used		
		Description: Code indicating the status of an				ition of any		

difference between the quantity ordered and the quantity shipped for a line item or transaction

		CodeNameCCShipment Complete on (Date)CPPartial Shipment on (Date), ConsideredSSSplit Shipment	ed No Back	order			
* TD507	309	Location Qualifier	0	ID	1/2	Not Used	
		Description: Code identifying type of location	on				
* TD508	310	Location Identifier	С	AN	1/30	Not Used	
		Description: Code which identifies a specific location					
* TD509	731	Transit Direction Code	0	ID	2/2	Not Used	
		Description: The point of origin and point of direction					
TD510	732	Transit Time Direction Qualifier	0	ID	2/2	Used	
		Description: Code specifying the value of time used to measure the transit time					
		CodeNameCDCalendar Days (Includes weekends and Holidays)WDWorking Days (Excludes weekends and holidays)					
TD511	733	Transit Time	С	R	1/4	Used	
		Description: The numeric amount of transit	time				
* TD512	284	Service Level Code	С	ID	2/2	Not Used	
		Description: Code indicating the level of traby the transportation carrier	ınsportation	service o	the billing se	rvice offered	
* TD513	284	Service Level Code	С	ID	2/2	Not Used	
		Description: Code indicating the level of traby the transportation carrier	ınsportation	service o	the billing se	rvice offered	
* TD514	284	Service Level Code	0	ID	2/2	Not Used	
		Description: Code indicating the level of traby the transportation carrier	ınsportation	service o	the billing se	rvice offered	

Syntax Rules:

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

REF Reference Identification

Pos: 1600 Max: >1
Detail - Optional
Loop: HL - Elements: 4
S

User Option (Usage): Used

Purpose: To specify identifying information

<u>Ref</u> REF01	<u>ld</u> 128	Element Name Reference Identification Qualifier	<u>Req</u> M	<u>Type</u> ID	Min/Max 2/3	<u>Usage</u> Required			
	.20	Description: Code Qualifying the Reference to			2,0	rtoquilou			
		Code Name BC Buyer's Contract Number BM Bill of Lading Number CN Carrier's Reference Number (PRO/Invo CO Customer Order Number Description: This is the order number in the contract of the co	ice)		consumer.				
REF02	127	Reference Identification	С	AN	1/30	Used			
		Description: Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier							
REF03	352	Description	С	AN	1/80	Used			
		Description: A free-form description to clarify	the rela	ted data e	elements and	their content			
* REF04	C040	Reference Identifier	0	Comp		Not Used			
		Description: To identify one or more reference specified by the Reference Qualifier	e numbe	ers or ide	ntification nun	nbers as			
*	128	Reference Identification Qualifier	М	ID	2/3	Not Used			
		Description: Code Qualifying the Reference lo	dentifica	ation					
*	127	Reference Identification	М	AN	1/30	Not Used			
		Description: Reference information as defined by the Reference Identification Qualifier	d for a p	articular ⁻	Transaction S	et or as specified			
*	128	Reference Identification Qualifier	С	ID	2/3	Not Used			
		Description: Code Qualifying the Reference lo	dentifica	ation					
*	127	Reference Identification	С	AN	1/30	Not Used			
		Description: Reference information as defined by the Reference Identification Qualifier	d for a p	articular ⁻	Transaction S	et or as specified			
*	128	Reference Identification Qualifier	С	ID	2/3	Not Used			

Ref	<u>ld</u>	Element Name	<u>Req</u>	<u>Type</u>	Min/Max	<u>Usage</u>				
		Description: Code Qualifying the Reference	Description: Code Qualifying the Reference Identification							
*	127	Reference Identification	С	AN	1/30	Not Used				
		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.

DTM Date/Time Reference

Pos: 3400 Max: 10
Detail - Optional
Loop: HL - Elements: 7
S

User Option (Usage): Used

Purpose: To specify pertinent dates and times

Element Summary:

<u>Ref</u>	<u>ld</u>	Element Name	Req	<u>Type</u>	Min/Max	<u>Usage</u>				
DTM01	374	Date/Time Qualifier	M	ID	3/3	Required				
		Description: Code specifying type of date or	time, or	both date	and time					
		Code Name								
		011 Shipped								
		037 Ship Not Before								
		038 Ship No Later								
		039 Ship Week of								
		063 Do Not Deliver After	o Not Deliver After							
		064 Do Not Deliver Before	Do Not Deliver Before							
		067 Current Schedule Delivery								
		068 Current Schedule Ship	068 Current Schedule Ship							
		073 Scheduled for Delivery (Prior to and In	cluding)							
		095 Bill of Lading								
		178 Hold (as of)								
		182 Will Advise (as of)								
DTM02	373	Date	С	DT	8/8	Required				
		Description: Date expressed as CCYYMMD	D							
DTM03	337	Time	С	TM	4/8	Used				
		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 $DD = hundredths (00-99)$								

Description: 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

0

ID

2/2

Used

Code Name

Time Code

- CD Central Daylight Time
- CS Central Standard Time
- CT Central Time
- ED Eastern Daylight Time
- ES Eastern Standard Time
- ET Eastern Time
- LT Local Time
- MD Mountain Daylight Time

DTM04 623

		<u>Code</u>	<u>Name</u>				
		MS	Mountain Standard Time				
		MT	Mountain Time				
		PD	Pacific Daylight Time				
		PS	Pacific Standard Time				
		PT	Pacific Time				
DTM05	624	Centu	ry	0	N0	2/2	Required
		Descr	iption: The first two characters in the des	ignation	of the yea	r (CCYY)	
* DTM06	1250	Date T	ime Period Format Qualifier	С	ID	2/3	Not Used
		Descr	iption: Code indicating the date format, ti	me form	at, or date	and time form	nat
* DTM07	1251	Date T	ime Period	С	AN	1/35	Not Used
		Descr	iption: Expression of a date, a time, or ra	nge of d	lates, times	s or dates and	times

Syntax Rules:

- 1. P0607 If either DTM06 or DTM07 is present, then the other is required.
- 2. R020306 At least one of DTM02, DTM03 or DTM06 is required.

Loop Name

Pos: 3700 Repeat: 200 Optional

Loop: N1 Elements: N/A

User Option (Usage): Used

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

Loop Summary:

<u>Pos</u>	<u>ld</u>	Segment Name	<u>Req</u>	Max Use	Repeat	<u>Usage</u>
3800	N1	Name	0	1		Used
3900	N2	Additional Name Information	0	2		Used
4000	N3	Address Information	0	2		Used
4100	N4	Geographic Location	0	1		Used

N1 Name

Pos: 3800 Max: 1
Detail - Optional
Loop: N1 Elements: 6

User Option (Usage): Used

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

Element Summary:

	<u>Ref</u> N101	<u>ld</u> 98		nt Name Identifier Code	<u>Req</u> M	<u>Type</u> ID	<u>Min/Max</u> 2/2	<u>Usage</u> Required		
			•	iption: Code identifying an organizationa				·		
				Name Bill-to-Party Final Scheduled Destination Description: Customs duties, excise ta on whether an aircraft flight originated of these codes would be used to note those	exes, and or is dest	d use of b ined for a	onded fuels are	dependent		
			SF ST VN	Ship From Ship To Vendor						
	N102	93	Name		С	AN	1/35	Used		
			Description: Free-form name							
	N103	66	Identif	fication Code Qualifier	С	ID	1/2	Used		
			Descr Code (iption: Code designating the system/me (67)	thod of o	code struc	cture used for Id	entification		
			<u>Code</u> 1 9 15 92	9 D-U-N-S+4,D-U-N-S Number with Four Character Suffix 15 Standard Address Number (SAN)						
	N104	67	Identif	fication Code	С	AN	2/20	Used		
			Descr	iption: Code identifying a party or other	code					
*	N105	706	Entity	Relationship Code	0	ID	2/2	Not Used		
			Descr	iption: Code describing entity relationsh	ip					
*	N106	98	Entity	Identifier Code	0	ID	2/2	Not Used		
			Description: Code identifying an organizational entity, a physical location, or an individual							

Syntax Rules:

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

N2 Additional Name Information

Pos: 3900 Max: 2 Detail - Optional Loop: N1 Elements: 2

User Option (Usage): Used

Purpose: To specify additional names or those longer than 35 characters in length

Description: Free-form name

<u>Ref</u>	<u>ld</u>	Element Name	<u>Req</u>	<u>Type</u>	Min/Max	<u>Usage</u>
N201	93	Name	М	AN	1/35	Required
		Description: Free-form name				
N202	93	Name	0	AN	1/35	Used

N3 Address Information

Pos: 4000 Max: 2 Detail - Optional Loop: N1 Elements: 2

User Option (Usage): Used

Purpose: To specify the location of the named party

Ref	<u>ld</u>	Element Name	<u>Req</u>	<u>Type</u>	Min/Max	<u>Usage</u>
N301	166	Address Information	М	AN	1/35	Required
		Description: Address information				
N302	166	Address Information	0	AN	1/35	Used
		Description: Address information				

N4 Geographic Location

Pos: 4100 Max: 1
Detail - Optional
Loop: N1 Elements: 6

User Option (Usage): Used

Purpose: To specify the geographic place of the named party

Element Summary:

Ref	<u>ld</u>	Element Name	Req	<u>Type</u>	Min/Max	<u>Usage</u>		
N401	19	City Name	0	AN	2/30	Used		
		Description: Free-form text for city name						
N402	156	State or Province Code	0	ID	2/2	Used		
		Description: Code (Standard State/Province)	escription: Code (Standard State/Province) as defined by appropriate government agency					
N403	116	Postal Code	0	ID	3/15	Used		
		Description: Code defining international post (zip code for United States)	al zone	code exc	luding punctua	ation and blanks		
N404	26	Country Code	0	ID	2/3	Used		
		Description: Code identifying the country						
* N405	309	Location Qualifier	С	ID	1/2	Not Used		
		Description: Code identifying type of location	l					
* N406	310	Location Identifier	0	AN	1/30	Not Used		
		Description: Code which identifies a specific	location					

Syntax Rules:

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

Loop Hierarchical Level - ORDER

Pos: 4200 Repeat: 200000

Mandatory

Loop: HL - Elements: N/A

User Option (Usage): Required

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

Loop Summary:

<u>Pos</u>	<u>ld</u>	Segment Name	<u>Req</u>	Max Use	<u>Repeat</u>	<u>Usage</u>
4300	HL	Hierarchical Level - ORDER	M	1		Required
4400	PRF	Purchase Order Reference	0	1		Used
4500		Loop CLD	0		200	Used

HL Hierarchical Level - ORDER

Pos: 4300 Max: 1
Detail - Mandatory
Loop: HL - Elements: 4
O

User Option (Usage): Required

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

<u>Ref</u>	<u>ld</u>	Element Name	Req	<u>Type</u>	Min/Max	<u>Usage</u>
HL01	628	Hierarchical ID Number	М	AN	1/12	Required
		Description: A unique number assigned by the a hierarchical structure	e sende	r to ident	tify a particular	data segment in
HL02	734	Hierarchical Parent ID Number	0	AN	1/12	Used
		Description: Identification number of the next segment being described is subordinate to	higher h	nierarchio	cal data segme	ent that the data
HL03	735	Hierarchical Level Code	М	ID	1/2	Required
		Description: Code defining the characteristic of	of a leve	el in a hie	rarchical struc	ture
HL04	736	Hierarchical Child Code	0	ID	1/1	Used
		Description: Code indicating if there are hiera level being described	rchical o	child data	a segments sul	bordinate to the

PRF Purchase Order Reference

Pos: 4400 Max: 1
Detail - Optional
Loop: HL - Elements: 7
O

User Option (Usage): Used

Purpose: To provide reference to a specific purchase order

Element Summary:

Ref	<u>ld</u>	Element Name	Req	<u>Type</u>	Min/Max	<u>Usage</u>
PRF01	324	Purchase Order Number	М	AN	1/22	Required
		Description: Identifying number for Purchase	Order a	assigned	by the orderer	/purchaser
PRF02	328	Release Number	Ο	AN	1/30	Used
		Description: Number identifying a release ag parties involved in the transaction	ainst a F	Purchase	Order previou	sly placed by the
PRF03	327	Change Order Sequence Number	0	AN	1/8	Used
		Description: Number assigned by the ordere previously transmitted transaction set	r identify	ving a spe	ecific change o	r revision to a
PRF04	373	Date	0	DT	8/8	Used
		Description: Date expressed as CCYYMMDI)			
PRF05	350	Assigned Identification	0	AN	1/20	Used
		Description: Alphanumeric characters assign	ed for d	ifferentia	tion within a tra	ansaction set
PRF06	367	Contract Number	0	AN	1/30	Used
		Description: Contract number				
PRF07	92	Purchase Order Type Code	0	ID	2/2	Used
		Description: Code specifying the type of Purchase Order				

Semantics:

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

Loop Load Detail

Pos: 4500 Repeat: 200

Optional

Loop: CLD Elements: N/A

User Option (Usage): Used

Purpose: To specify the number of material loads shipped

Loop Summary:

<u>Pos</u>	<u>ld</u>	Segment Name	<u>Req</u>	Max Use	Repeat	<u>Usage</u>
4600	CLD	Load Detail	0	1		Used
4700	REF	Reference Identification	0	200		Used

CLD Load Detail

Pos: 4600 Max: 1 Detail - Optional Loop: CLD Elements: 5

User Option (Usage): Used

Purpose: To specify the number of material loads shipped

Element Summary:

<u>Ref</u> CLD01	<u>ld</u> 622	Element Name Number of Loads	<u>Req</u> M	Type N0	Min/Max 1/5	<u>Usage</u> Required	
		Description: Number of customer-defined loa	ads shipp	ed by the	e supplier		
CLD02	382	Number of Units Shipped	М	R	1/10	Required	
		Description: Numeric value of units shipped in manufacturer's shipping units for a line ite or transaction set					
CLD03	103	Packaging Code	0	AN	3/5	Used	
		Description: Code identifying the type of packaging; Part 1: Packaging Form, Part 2: Packaging Material					
		CodeNameCNTContainerDescription: (Gaylord)CTN25Cartons, corrugated or solidPLT94Pallet, woodUNT76Unit, paper					
* CLD04	357	Size	0	R	1/8	Not Used	
		Description: Size of supplier units in pack					
* CLD05	355	Unit or Basis for Measurement Code	Ο	ID	2/2	Not Used	
		Description: Code specifying the units in whi which a measurement has been taken	ch a valu	ue is bein	g expressed, o	or manner in	

Semantics:

1. CLD05 is used to dimension the value given in CLD04.

REF Reference Identification

Pos: 4700 Max: 200
Detail - Optional
Loop: CLD Elements: 4

User Option (Usage): Used

Purpose: To specify identifying information

Element Summary:

Ref	<u>ld</u>	Element Name	Req	<u>Type</u>	Min/Max	<u>Usage</u>	
REF01	128	Reference Identification Qualifier	M	ID	2/3	Required	
		Description: Code Qualifying the Reference le	dentifica	ation			
REF02	127	Reference Identification	С	AN	1/30	Used	
		Description: Reference information as defined by the Reference Identification Qualifier	d for a p	oarticular	Transaction S	et or as specified	
REF03	352	Description	С	AN	1/80	Used	
Description: A free-form description to clarify the related data elements and their conter						their content	
REF04	C040	Reference Identifier	0	Comp		Used	
		Description: To identify one or more reference specified by the Reference Qualifier	Description: To identify one or more reference numbers or identification numbers as specified by the Reference Qualifier				
	128	Reference Identification Qualifier	М	ID	2/3	Required	
		Description: Code Qualifying the Reference le	dentifica	ation			
	127	Reference Identification	М	AN	1/30	Required	
		Description: Reference information as defined by the Reference Identification Qualifier	d for a p	oarticular	Transaction S	et or as specified	
	128	Reference Identification Qualifier	С	ID	2/3	Used	
		Description: Code Qualifying the Reference le	dentifica	ation			
	127	Reference Identification	С	AN	1/30	Used	
		Description: Reference information as defined by the Reference Identification Qualifier	d for a p	oarticular	Transaction S	et or as specified	
	128	Reference Identification Qualifier	С	ID	2/3	Used	
		Description: Code Qualifying the Reference Identification					
	127	Reference Identification	С	AN	1/30	Used	
		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.

Loop Hierarchical Level - TARE

Pos: 0100 Repeat: >1 Mandatory

Loop: HL - Elements: N/A

User Option (Usage): Used

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

Loop Summary:

<u>Pos</u>	<u>ld</u>	Segment Name	<u>Req</u>	Max Use	Repeat	<u>Usage</u>
0200	HL	Hierarchical Level - TARE	М	1		Used
3600		Loop BS3	0		1	Used

HL Hierarchical Level - TARE

Pos: 0200 Max: 1 Heading - Mandatory Loop: HL - Elements: 4 T

User Option (Usage): Used

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

<u>Ref</u>	<u>ld</u>	Element Name	Req	<u>Type</u>	Min/Max	<u>Usage</u>
HL01	628	Hierarchical ID Number	М	AN	1/12	Required
		Description: A unique number assigned by the a hierarchical structure	ne sende	er to iden	tify a particular	data segment in
HL02	734	Hierarchical Parent ID Number	0	AN	1/12	Used
		Description: Identification number of the next segment being described is subordinate to	higher	hierarchi	cal data segme	ent that the data
HL03	735	Hierarchical Level Code	М	ID	1/2	Required
		Description: Code defining the characteristic	of a leve	el in a hie	erarchical struc	ture
		Code Name T Shipping Tare				
HL04	736	Hierarchical Child Code	Ο	ID	1/1	Used
		Description: Code indicating if there are hieral level being described All valid standard codes are used.	archical	child data	a segments sul	bordinate to the

Loop Pallet Information

Pos: 3600 Repeat: 1
Optional

Loop: BS3 Elements: N/A

User Option (Usage): Used

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

Loop Summary:

<u>Pos</u>	<u>ld</u>	Segment Name	Req	Max Use	<u>Repeat</u>	<u>Usage</u>
3700	PAL	Pallet Information	0	1		Used
3800	MAN	Marks and Numbers	0	10		Used

PAL Pallet Information

Pos: 3700 Max: 1 Heading - Optional Loop: BS3 Elements: 15

User Option (Usage): Used

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

_	CITICITE	Odiiii	iui y .				
	<u>Ref</u> PAL01	<u>ld</u> 883	Element Name Pallet Type Code	Req O	<u>Type</u> ID	Min/Max 1/2	<u>Usage</u> Used
	-		Description: Code indicating the type of palle	et			
			Code Name4 Standard6 Wood				
*	PAL02	884	Pallet Tiers	0	N0	1/3	Not Used
			Description: The number of layers per pallet				
*	PAL03	885	Pallet Blocks	0	N0	1/3	Not Used
			Description: The number of pieces (cartons)	per laye	r on the p	oallet	
*	PAL04	356	Pack	0	N0	1/6	Not Used
			Description: Number of inner pack units per	outer pa	ck unit		
*	PAL05	395	Unit Weight	С	R	1/8	Not Used
			Description: Numeric value of weight per uni	t			
*	PAL06	355	Unit or Basis for Measurement Code	С	ID	2/2	Not Used
			Description: Code specifying the units in whi which a measurement has been taken	ch a valı	ue is bein	g expressed,	or manner in
*	PAL07	82	Length	С	R	1/8	Not Used
			Description: Largest horizontal dimension of upright position	an objed	ct measu	red when the o	object is in the
*	PAL08	189	Width	С	R	1/8	Not Used
			Description: Shorter measurement of the two object in the upright position	horizon	ital dimer	nsions measur	ed with the
*	PAL09	65	Height	С	R	1/8	Not Used
			Description: Vertical dimension of an object position	measure	d when t	he object is in	the upright
*	PAL10	355	Unit or Basis for Measurement Code	С	ID	2/2	Not Used
			Description: Code specifying the units in whi which a measurement has been taken	ch a valı	ue is bein	g expressed,	or manner in
*	PAL11	384	Gross Weight per Pack	С	R	1/9	Not Used
			Description: Numeric value of gross weight p	er pack			

	Ref	<u>ld</u>	Element Name	Req	<u>Type</u>	Min/Max	<u>Usage</u>		
*	PAL12	355	Unit or Basis for Measurement Code	С	ID	2/2	Not Used		
			Description: Code specifying the units in which which a measurement has been taken	h a valu	e is bein	g expressed, o	or manner in		
*	PAL13	385	Gross Volume per Pack	С	R	1/9	Not Used		
			Description: Numeric value of gross volume p	er pack					
*	PAL14	355	Unit or Basis for Measurement Code	С	ID	2/2	Not Used		
			Description: Code specifying the units in which a value is being expressed, or man which a measurement has been taken						
*	PAL15	399	Pallet Exchange Code	0	ID	1/1	Not Used		
			Description: Code specifying pallet exchange instructions						

Syntax Rules:

- 1. C0710 If PAL07 is present, then PAL10 is required.
- 2. C0810 If PAL08 is present, then PAL10 is required.
- 3. C0910 If PAL09 is present, then PAL10 is required.
- 4. L10070809 If PAL10 is present, then at least one of PAL07, PAL08 or PAL09 is required.
- 5. P0506 If either PAL05 or PAL06 is present, then the other is required.
- 6. P1112 If either PAL11 or PAL12 is present, then the other is required.
- 7. P1314 If either PAL13 or PAL14 is present, then the other is required.

Semantics:

- 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.

MAN Marks and Numbers

Pos: 3800 Max: 10 Heading - Optional Loop: BS3 Elements: 6

User Option (Usage): Used

Purpose: To indicate identifying marks and numbers for shipping containers

Element Summary:

	<u>Ref</u> MAN01	<u>ld</u> 88	Element Name Marks and Numbers Qualifier		Req M	Type ID	Min/Max 1/2	<u>Usage</u> Required			
			Descr	Description: Code specifying the application or source of Marks and Numbers (87)							
			Code GM MC SM SS UC	Name SSCC-18 and Application Identifier Master Carton Number Description: The identification number shipment leaving the supplier's dock Shipper Assigned Shipper Assigned Skid Number U.P.C. Shipping Container Code	of the c	outermost	(external) cor	ntainer in a			
	MAN02	87	Marks	and Numbers	M	AN	1/48	Required			
			Description: Marks and numbers used to identify a shipment or parts of a shipment								
*	MAN03	87	Marks	and Numbers	0	AN	1/48	Not Used			
			Description: Marks and numbers used to identify a shipment or parts of a shipment								
*	MAN04	88	Marks	and Numbers Qualifier	С	ID	1/2	Not Used			
			Description: Code specifying the application or source of Marks and Numbers (87)								
*	MAN05	87	Marks	and Numbers	С	AN	1/48	Not Used			
			Description: Marks and numbers used to identify a shipment or parts of a shipment								
*	MAN06	87	Marks	and Numbers	0	AN	1/48	Not Used			
			Description: Marks and numbers used to identify a shipment or parts of a shipment								

Syntax Rules:

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

Semantics:

- 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.

Loop Hierarchical Level - PACK

Pos: 0100 Repeat: 200000

Mandatory

Loop: HL - Elements: N/A

User Option (Usage): Required

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

Loop Summary:

<u>Pos</u>	<u>ld</u>	Segment Name	Req	Max Use	<u>Repeat</u>	<u>Usage</u>
0200	HL	Hierarchical Level - PACK	M	1		Required
0300	MEA	Measurements	0	40		Used
0400	MAN	Marks and Numbers	0	>1		Used
3700		Loop N1	0		200	Used

HL Hierarchical Level - PACK

Pos: 0200 Max: 1 Detail - Mandatory Loop: HL - Elements: 4 P

User Option (Usage): Required

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

<u>Ref</u>	<u>ld</u>	Element Name	Req	<u>Type</u>	Min/Max	<u>Usage</u>
HL01	628	Hierarchical ID Number	М	AN	1/12	Required
		Description: A unique number assigned by the a hierarchical structure	e sende	r to ident	tify a particular	data segment in
HL02	734	Hierarchical Parent ID Number	0	AN	1/12	Used
		Description: Identification number of the next segment being described is subordinate to	higher h	nierarchio	cal data segme	ent that the data
HL03	735	Hierarchical Level Code	М	ID	1/2	Required
		Description: Code defining the characteristic of	of a leve	el in a hie	rarchical struc	ture
HL04	736	Hierarchical Child Code	0	ID	1/1	Used
		Description: Code indicating if there are hiera level being described	rchical o	child data	a segments sul	bordinate to the

MEA Measurements

Pos: 0300 Max: 40
Detail - Optional
Loop: HL - Elements: 10
P

User Option (Usage): Used

Purpose: To specify physical measurements or counts, including dimensions, tolerances, variances, and weights(See Figures Appendix for example of use of C001)

<u>Ref</u> MEA01	<u>ld</u> 737	Element Name Measurement Reference ID Code	Req O	<u>Type</u> ID	Min/Max 2/2	<u>Usage</u> Used				
		Description: Code identifying the broad categ	ory to w	/hich a m	easurement ap	oplies				
		CodeNamePAPallet DimensionsPDPhysical DimensionsPKPackage Dimensions								
MEA02	738	Measurement Qualifier	0	ID	1/3	Used				
		Description: Code identifying a specific product or process characteristic to which a measurement applies								
		CodeNameHTHeightLNLengthSZSkid HeightWDWidthWTWeight								
MEA03	739	Measurement Value	С	R	1/20	Used				
		Description: The value of the measurement User: For all code values with the exception of decimal number. For the SZ qualifier use the in								
MEA04	C001	Composite Unit of Measure	С	Comp		Used				
		Description: To identify a composite unit of measure(See Figures Appendix for examples of use)								
	355	Unit or Basis for Measurement Code	М	ID	2/2	Required				
		Description: Code specifying the units in which which a measurement has been taken	h a valu	ue is bein	g expressed, o	or manner in				
		CodeNameCMCentimeterE5Inches,FractionActualE8Inches,DecimalActualKGKilogramLBPoundOZOunce - Av								

Ref *	<u>ld</u> 1018	Element Name Exponent	Req O	<u>Type</u> R	Min/Max 1/15	<u>Usage</u> Not Used
		Description: Power to which a unit is raised				
*	649	Multiplier	0	R	1/10	Not Used
		Description: Value to be used as a multiplier t	o obtair	n a new v	alue	
*	355	Unit or Basis for Measurement Code	0	ID	2/2	Not Used
		Description: Code specifying the units in which which a measurement has been taken	h a valu	ıe is bein	g expressed, o	or manner in
*	1018	Exponent	0	R	1/15	Not Used
		Description: Power to which a unit is raised				
*	649	Multiplier	0	R	1/10	Not Used
		Description: Value to be used as a multiplier t	o obtair	n a new v	alue	
*	355	Unit or Basis for Measurement Code	0	ID	2/2	Not Used
		Description: Code specifying the units in whic which a measurement has been taken	h a valu	ıe is bein	g expressed, (or manner in
*	1018	Exponent	0	R	1/15	Not Used
		Description: Power to which a unit is raised				
*	649	Multiplier	0	R	1/10	Not Used
		Description: Value to be used as a multiplier t	o obtair	n a new v	alue	
*	355	Unit or Basis for Measurement Code	0	ID	2/2	Not Used
		Description: Code specifying the units in which which a measurement has been taken	h a valu	ıe is bein	g expressed, o	or manner in
*	1018	Exponent	0	R	1/15	Not Used
		Description: Power to which a unit is raised				
*	649	Multiplier	0	R	1/10	Not Used
		Description: Value to be used as a multiplier t	o obtair	n a new v	ralue	
*	355	Unit or Basis for Measurement Code	0	ID	2/2	Not Used
		Description: Code specifying the units in which which a measurement has been taken	h a valu	ıe is bein	g expressed, o	or manner in
*	1018	Exponent	0	R	1/15	Not Used
		Description: Power to which a unit is raised				
*	649	Multiplier	0	R	1/10	Not Used
		Description: Value to be used as a multiplier t	o obtair	n a new v	alue	
* MEA05	740	Range Minimum	С	R	1/20	Not Used
		Description: The value specifying the minimum	m of the	measure	ement range	
* MEA06	741	Range Maximum	С	R	1/20	Not Used

	Ref	<u>ld</u>	Element Name Description: The value specifying the maximu	Req m of the	Type measur	Min/Max rement range	<u>Usage</u>
*	MEA07	935	Measurement Significance Code	0	ID	2/2	Not Used
			Description: Code used to benchmark, qualify	or furth	er define	e a measureme	nt value
*	MEA08	936	Measurement Attribute Code	С	ID	2/2	Not Used
			Description: Code used to express an attribute value cannot be determined	e respor	nse wher	n a numeric me	asurement
*	MEA09	752	Surface/Layer/Position Code	0	ID	2/2	Not Used
			Description: Code indicating the product surfa	ce, laye	r or posi	tion that is beir	g described
*	MEA10	1373	Measurement Method or Device	0	ID	2/4	Not Used
	Description: The method or device used to record the measurement						

The method of device does to record the r

Syntax Rules:

- 1. C0504 If MEA05 is present, then MEA04 is required.
- 2. C0604 If MEA06 is present, then MEA04 is required.
- 3. E0803 Only one of MEA08 or MEA03 may be present.
- 4. L07030506 If MEA07 is present, then at least one of MEA03, MEA05 or MEA06 is required.
- 5. R03050608 At least one of MEA03, MEA05, MEA06 or MEA08 is required.

Semantics:

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

MAN Marks and Numbers

Pos: 0400 Max: >1 Detail - Optional Loop: HL - Elements: 6 P

User Option (Usage): Used

Purpose: To indicate identifying marks and numbers for shipping containers

Element Summary:

<u>Ref</u>	<u>ld</u>	Eleme	ent Name	Req	<u>Type</u>	Min/Max	<u>Usage</u>			
MAN01	88	Marks	s and Numbers Qualifier	М	ID	1/2	Required			
		Descr	ription: Code specifying the application of	or sourc	r source of Marks and Numbers (87)					
		<u>Code</u>	<u>Name</u>							
		CA	Shipper-Assigned Case Number							
			Description: Number identifying unit sa	hipped						
		GM	JCC/EAN-128 Serial Shipping Container Code Format							
		MC	Master Carton Number	cription: The identification number of the outermost (external) container in a						
			Description: The identification number shipment leaving the supplier's dock							
		SM	Shipper Assigned							
		SS	Shipper Assigned Skid Number							
		UC	U.P.C. Shipping Container Code							
MAN02	87	Marks	s and Numbers	М	AN	1/48	Required			
		Descr	ription: Marks and numbers used to ider	ntify a sh	nipment c	or parts of a sh	ipment			
MAN03	87	Marks	s and Numbers	Ο	AN	1/48	Used			
		Description: Marks and numbers used to identify a shipment or parts of a shipment								
		User:	Use the Book Industry Guidelines for Sh	nipping (Containe	Codes and S	ymbols.			
* MAN04	88	Marks	s and Numbers Qualifier	С	ID	1/2	Not Used			
		Descr	ription: Code specifying the application of	or sourc	e of Mark	s and Number	rs (87)			
* MAN05	87	Marks	s and Numbers	С	AN	1/48	Not Used			
		Descr	ription: Marks and numbers used to ider	ntify a sh	nipment c	or parts of a sh	ipment			
* MAN06	87	Marks	s and Numbers	0	AN	1/48	Not Used			
		Description: Marks and numbers used to identify a shipment or parts of a shipment								

Syntax Rules:

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



Loop Name

Pos: 3700 Repeat: 200 Optional

Loop: N1 Elements: N/A

User Option (Usage): Used

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

Loop Summary:

<u>Pos</u>	<u>ld</u>	Segment Name	<u>Req</u>	Max Use	Repeat	<u>Usage</u>
3800	N1	Name	0	1		Used
3900	N2	Additional Name Information	0	2		Used
4000	N3	Address Information	0	2		Used
4100	N4	Geographic Location	0	1		Used

N1 Name

Pos: 3800 Max: 1 Detail - Optional Loop: N1 Elements: 6

User Option (Usage): Used

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

Element Summary:

Ref	<u>ld</u>	Element Name	Req	<u>Type</u>	Min/Max	<u>Usage</u>		
N101	98	Entity Identifier Code	M	ID	2/2	Required		
		Description: Code identifying an organization	tional entity,	a physic	cal location, or	an individual		
		Code Name BT Bill-to-Party FS Final Scheduled Destination Description: Customs duties, excise on whether an aircraft flight originate.						
		these codes would be used to note SF Ship From ST Ship To VN Vendor			ar momator.	arroodstri,		
N102	93	Name	С	AN	1/35	Used		
		Description: Free-form name						
N103	66	Identification Code Qualifier	С	ID	1/2	Used		
		Description: Code designating the system Code (67)	n/method of	code stru	ucture used for	r Identification		
		 Code Name D-U-N-S Number, Dun & Bradstreet D-U-N-S+4, D-U-N-S Number with F Standard Address Number (SAN) Assigned by Buyer or Buyer's Agen 	– N-S Number,Dun & Bradstreet N-S+4,D-U-N-S Number with Four Character Suffix dard Address Number (SAN)					
N104	67	Identification Code	С	AN	2/20	Used		
		Description: Code identifying a party or ot	her code					
* N105	706	Entity Relationship Code	0	ID	2/2	Not Used		
		Description: Code describing entity relation	onship					
* N106	98	Entity Identifier Code	0	ID	2/2	Not Used		
		Description: Code identifying an organizational entity, a physical location, or an individual						

Syntax Rules:

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

N2 Additional Name Information

Pos: 3900 Max: 2
Detail - Optional
Loop: N1 Elements: 2

User Option (Usage): Used

Purpose: To specify additional names or those longer than 35 characters in length

Description: Free-form name

Ref	<u>ld</u>	Element Name	<u>Req</u>	<u>Type</u>	Min/Max	<u>Usage</u>
N201	93	Name	M	AN	1/35	Required
		Description: Free-form name				
N202	93	Name	0	AN	1/35	Used

N3 Address Information

Pos: 4000 Max: 2
Detail - Optional
Loop: N1 Elements: 2

User Option (Usage): Used

Purpose: To specify the location of the named party

Ref	<u>ld</u>	Element Name	<u>Req</u>	<u>Type</u>	Min/Max	<u>Usage</u>
N301	166	Address Information	М	AN	1/35	Required
		Description: Address information				
N302	166	Address Information	0	AN	1/35	Used
		Description: Address information				

N4 Geographic Location

Pos: 4100 Max: 1
Detail - Optional
Loop: N1 Elements: 6

User Option (Usage): Used

Purpose: To specify the geographic place of the named party

Element Summary:

<u>Ref</u>	<u>ld</u>	Element Name	Req	<u>Type</u>	Min/Max	<u>Usage</u>		
N401	19	City Name	0	AN	2/30	Used		
		Description: Free-form text for city name						
N402	156	State or Province Code	0	ID	2/2	Used		
		Description: Code (Standard State/Province) as defined by appropriate government agency						
N403	116	Postal Code	0	ID	3/15	Used		
		Description: Code defining international posta (zip code for United States)	al zone (code exc	luding punctua	ation and blanks		
N404	26	Country Code	0	ID	2/3	Used		
		Description: Code identifying the country						
* N405	309	Location Qualifier	С	ID	1/2	Not Used		
		Description: Code identifying type of location						
* N406	310	Location Identifier	0	AN	1/30	Not Used		
		Description: Code which identifies a specific	location					

Syntax Rules:

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

Loop Hierarchical Level - ITEM

Pos: 0500 Repeat: 200000 Mandatory Loop: HL - Elements: N/A

User Option (Usage): Required

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

Loop Summary:

<u>Pos</u>	<u>ld</u>	Segment Name	Req	Max Use	<u>Repeat</u>	<u>Usage</u>
0600	HL	Hierarchical Level - ITEM	M	1		Required
0700	LIN	Item Identification	0	1		Used
0800	SN1	Item Detail (Shipment)	0	1		Used
0900	SLN	Subline Item Detail	0	1000		Used
1000	MEA	Measurements	0	40		Used
1100	CUR	Currency	0	1		Used

HL Hierarchical Level - ITEM

Pos: 0600 Max: 1 Detail - Mandatory Loop: HL - Elements: 4 I

User Option (Usage): Required

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

<u>Ref</u>	<u>ld</u>	Element Name	Req	<u>Type</u>	Min/Max	<u>Usage</u>
HL01	628	Hierarchical ID Number	М	AN	1/12	Required
		Description: A unique number assigned by the a hierarchical structure	e sende	r to ident	tify a particular	data segment in
HL02	734	Hierarchical Parent ID Number	0	AN	1/12	Used
		Description: Identification number of the next segment being described is subordinate to	higher h	nierarchio	cal data segme	ent that the data
HL03	735	Hierarchical Level Code	М	ID	1/2	Required
		Description: Code defining the characteristic of	of a leve	el in a hie	rarchical struc	ture
HL04	736	Hierarchical Child Code	0	ID	1/1	Used
		Description: Code indicating if there are hiera level being described	rchical o	child data	a segments sul	bordinate to the

LIN Item Identification

Pos: 0700 Max: 1 Detail - Optional Loop: HL - Elements: 31

User Option (Usage): Used

Purpose: To specify basic item identification data

Element Summary:

Ref	<u>ld</u>	Element Name	Req	<u>Type</u>	Min/Max	<u>Usage</u>
LIN01	350	Assigned Identification	0	AN	1/20	Used
		Description: Alphanumeric characters assign	ed for d	ifferentiat	ion within a tra	insaction set
LIN02	235	Product/Service ID Qualifier	М	ID	2/2	Required

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

Product/Service ID (234)							
Code Name							
B1	Volume Set						
B2	Library of Congress Code						
B3	Edition Code						
B4	Binding Code						
B5	Title Code						
B6	Author Code						
B7	Publisher Code						
CB	Buyer's Catalog Number						
CG	Commodity Grouping						
EN	European Article Number (EAN) (2-5-5-1)						
	User:						

ISBN-13

GC Grade Code

Description: When using a qualifier value of GC then data element 234 should be one of the following values:

00 General Condition New or Used

01 New Condition Only

02 Used, Good Condition Only

03 Used, Poor Condition

04 Used, Any Condition

05 No Marked Complimentary Copies

IB International Standard Book Number (ISBN)

User: ISBN-10

RP

Replaced Part Number

Description: This is used when a different ISBN or UPC is shipped. This is the ISBN or UPC from the original order.

Code Name

RU Run Number **Description:** This represents the print number for the title. SK Stock Keeping Unit (SKU) IJK U.P.C./EAN Shipping Container Code (1-2-5-5-1) Description: A 14-digit code that uniquely identifies the manufacturer's shipping unit, including the packaging indicator and check digit; the first digit is the packaging indicator, the next two digits are the number system characters, the next five digits are the manufacturer ID number, the second five digits are the item code, and the final digit is the check digit User: UCC/EAN-14 UP U.P.C. Consumer Package Code (1-5-5-1) LIN03 234 **Product/Service ID** ΑN 1/40 Required Description: Identifying number for a product or service LIN04 235 **Product/Service ID Qualifier** 2/2 Used Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234) User: Refer to code list specified in 'LIN02' for usage. LIN05 234 **Product/Service ID** ΑN 1/40 Used **Description:** Identifying number for a product or service LIN06 235 **Product/Service ID Qualifier** С ID 2/2 Used **Description:** Code identifying the type/source of the descriptive number used in Product/Service ID (234) **User:** Refer to code list specified in 'LIN02' for usage. С 1/40 LIN07 234 **Product/Service ID** ΑN Used **Description:** Identifying number for a product or service LIN08 235 Product/Service ID Qualifier С ID 2/2 Used Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234) User: Refer to code list specified in 'LIN02' for usage. LIN09 234 **Product/Service ID** С ΑN 1/40 Used Description: Identifying number for a product or service LIN10 235 **Product/Service ID Qualifier** C ID 2/2 Used **Description:** Code identifying the type/source of the descriptive number used in Product/Service ID (234) User: Refer to code list specified in 'LIN02' for usage. 1/40 LIN11 234 **Product/Service ID** ΑN Used **Description:** Identifying number for a product or service LIN12 235 **Product/Service ID Qualifier** ID 2/2 Used **Description:** Code identifying the type/source of the descriptive number used in

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<u>Ref</u>	<u>ld</u>	Element Name Product/Service ID (234) User: Refer to code list specified in 'LIN02' for	Req	<u>Type</u>	Min/Max	<u>Usage</u>			
LIN13	234	Product/Service ID	C	AN	1/40	Used			
		Description: Identifying number for a product or service							
LIN14	235	Product/Service ID Qualifier	С	ID	2/2	Used			
		Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234)							
	004	User: Refer to code list specified in 'LIN02' for			1/10				
LIN15	234	Product/Service ID	С	AN	1/40	Used			
		Description: Identifying number for a product							
LIN16	235	Product/Service ID Qualifier	С	ID	2/2	Used			
		Description: Code identifying the type/source Product/Service ID (234) User: Refer to code list specified in 'LIN02' for			e number used	in			
LIN17	234	Product/Service ID	С	AN	1/40	Used			
		Description: Identifying number for a product or service							
LIN18	235	Product/Service ID Qualifier	С	ID	2/2	Used			
		Description: Code identifying the type/source Product/Service ID (234)	of the o	descriptiv	e number used	in			
	User: Refer to code list specified in 'LIN02' for usage.								
LIN19	234	Product/Service ID	С	AN	1/40	Used			
		Description: Identifying number for a product	or servi	ice					
LIN20	235	Product/Service ID Qualifier	С	ID	2/2	Used			
		Description: Code identifying the type/source Product/Service ID (234)			e number used	in			
LINIOA	004	User: Refer to code list specified in 'LIN02' for	-		4/40	Head			
LIN21	234	Product/Service ID	C	AN	1/40	Used			
LINIOO	225	Description: Identifying number for a product			0/0	Haad			
LIN22	235	Product/Service ID Qualifier	C	ID 	2/2	Used .			
		Description: Code identifying the type/source Product/Service ID (234) User: Refer to code list specified in 'LIN02' for		•	e number used	in			
LIN23	234	Product/Service ID	C	AN	1/40	Used			
2120	201	Description: Identifying number for a product			., .0	2000			
LIN24	235	Product/Service ID Qualifier	C	ID	2/2	Used			
		Description: Code identifying the type/source Product/Service ID (234)							
		User: Refer to code list specified in 'LIN02' for	r usage.						

Ref	<u>ld</u>	Element Name	Req	<u>Type</u>	Min/Max	<u>Usage</u>				
LIN25	234	Product/Service ID	С	AN	1/40	Used				
		Description: Identifying number for a product or service								
LIN26	235	Product/Service ID Qualifier	С	ID	2/2	Used				
		Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234)								
		User: Refer to code list specified in 'LIN02' for	usage.							
LIN27	234	Product/Service ID	С	AN	1/40	Used				
	Description: Identifying number for a product or service									
LIN28	235	Product/Service ID Qualifier	С	ID	2/2	Used				
Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234)										
		User: Refer to code list specified in 'LIN02' for	usage.							
LIN29	234	Product/Service ID	С	AN	1/40	Used				
		Description: Identifying number for a product	or servi	ce						
LIN30	235	Product/Service ID Qualifier	С	ID	2/2	Used				
		Description: Code identifying the type/source Product/Service ID (234)	e of the descriptive number used in							
	User: Refer to code list specified in 'LIN02' for usage.									
LIN31	234	Product/Service ID	С	AN	1/40	Used				
	Description: Identifying number for a product or service									

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.
- P1817 If either LIN16 or LIN17 is present, then the other is required.
 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.
- 9. 1 2021 Il ettilei Liivzo oi Liivzi 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.
- 11. 1 2420 Il citilor Eliver di Eliver la present, tilori tile ottler la 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

SN1 Item Detail (Shipment)

Pos: 0800 Max: 1
Detail - Optional
Loop: HL - Elements: 8
I

User Option (Usage): Used

Purpose: To specify line-item detail relative to shipment

Element Summary:

Ref SN101	<u>ld</u> 350	Element Name Assigned Identification	Req O	<u>Type</u> AN	Min/Max 1/20	<u>Usage</u> Used				
		Description: Alphanumeric characters assign	ned for di	fferentiat	tion within a tra	ansaction set				
SN102	382	Number of Units Shipped	М	R	1/10	Required				
		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	М	ID	2/2	Required				
		Description: Code specifying the units in which a measurement has been taken	ich a valu	ue is bein	g expressed,	or manner in				
		CodeNameCHContainerCTCartonEAEachDescription: For non-book items.PLPallet/Unit LoadSTSetUNUnit								
SN104	646	Quantity Shipped to Date	0	R	1/9	Used				
		Description: Number of units shipped to date)							
SN105	330	Quantity Ordered	С	R	1/9	Used				
		Description: Quantity ordered								
SN106	355	Unit or Basis for Measurement Code	С	ID	2/2	Used				
		Description: Code specifying the units in which a measurement has been taken			g expressed,	or manner in				
		User: Refer to code list specified in 'SN103' for	or usage.	•						
* SN107	728	Returnable Container Load Make-Up Code	0	ID	1/2	Not Used				
		Description: Code identifying the load make-	up of the	e returnat	ole containers	in the shipment				
* SN108	668	Line Item Status Code	0	ID	2/2	Not Used				
Description: Code specifying the action taken by the seller on a line item reque buyer					quested by the					

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.

SLN Subline Item Detail

Pos: 0900 Max: 1000 Detail - Optional Loop: HL - Elements: 28 I

User Option (Usage): Used

Purpose: To specify product subline detail item data

<u>Ref</u> SLN01	<u>ld</u> 350	Element Name Assigned Identification	<u>Req</u> M	<u>Type</u> AN	Min/Max 1/20	<u>Usage</u> Required		
		Description: Alphanumeric characters assign	ed for d	ifferentiat	tion within a tra	ansaction set		
SLN02	350	Assigned Identification	0	AN	1/20	Used		
		Description: Alphanumeric characters assign	ed for d	ifferentiat	tion within a tra	ansaction set		
SLN03	662	Relationship Code	М	ID	1/1	Required		
		Description: Code indicating the relationship	cription: Code indicating the relationship between entities					
		Code Name I Included						
SLN04	380	Quantity	М	R	1/15	Required		
		Description: Numeric value of quantity						
SLN05	C001	Composite Unit of Measure	М	Comp		Required		
		Description: To identify a composite unit of measure(See Figures Appendix for examples of use)						
	355	Unit or Basis for Measurement Code	М	ID	2/2	Required		
		Description: Code specifying the units in which a measurement has been taken	ch a valı	ue is bein	g expressed, o	or manner in		
		CodeNameCHContainerCTCartonEAEachPLPallet/Unit LoadSTSetUNUnit						
*	1018	Exponent	0	R	1/15	Not Used		
		Description: Power to which a unit is raised						
*	649	Multiplier	0	R	1/10	Not Used		
		Description: Value to be used as a multiplier	to obtaiı	n a new v	/alue			
*	355	Unit or Basis for Measurement Code	0	ID	2/2	Not Used		
		Description: Code specifying the units in which a measurement has been taken	ch a valı	ue is bein	g expressed, o	or manner in		

Ref *	<u>ld</u> 1018	Element Name Exponent	Req O	<u>Type</u> R	Min/Max 1/15	<u>Usage</u> Not Used			
		Description: Power to which a unit is raised							
*	649	Multiplier	0	R	1/10	Not Used			
		Description: Value to be used as a multiplier to obtain a new value							
*	355	Unit or Basis for Measurement Code	0	ID	2/2	Not Used			
		Description: Code specifying the units in whic which a measurement has been taken	iption: Code specifying the units in which a value is being expressed, or manner in a measurement has been taken						
*	1018	Exponent	0	R	1/15	Not Used			
		Description: Power to which a unit is raised							
*	649	Multiplier	0	R	1/10	Not Used			
		Description: Value to be used as a multiplier t	o obtair	n a new v	alue				
*	355	Unit or Basis for Measurement Code	0	ID	2/2	Not Used			
		Description: Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken							
*	1018	Exponent	0	R	1/15	Not Used			
		Description: Power to which a unit is raised							
*	649	Multiplier	0	R	1/10	Not Used			
		Description: Value to be used as a multiplier t	o obtair	n a new v	alue				
*	355	Unit or Basis for Measurement Code	0	ID	2/2	Not Used			
		Description: Code specifying the units in whic which a measurement has been taken	h a valu	ıe is bein	g expressed,	or manner in			
*	1018	Exponent	0	R	1/15	Not Used			
		Description: Power to which a unit is raised							
*	649	Multiplier	0	R	1/10	Not Used			
		Description: Value to be used as a multiplier t	o obtair	n a new v	alue				
SLN06	212	Unit Price	С	R	1/17	Used			
		Description: Price per unit of product, service,	commo	odity, etc					
SLN07	639	Basis of Unit Price Code	0	ID	2/2	Used			
		Description: Code identifying the type of unit p	orice for	an item					
* SLN08	662	Relationship Code	0	ID	1/1	Not Used			
		Description: Code indicating the relationship be	etweer	entities					
* SLN09	235	Product/Service ID Qualifier	С	ID	2/2	Not Used			
		Description: Code identifying the type/source Product/Service ID (234)	of the d	escriptiv	e number used	d in			
* SLN10	234	Product/Service ID	С	AN	1/40	Not Used			

Ref	<u>ld</u>	Element Name Description: Identifying number for a product	Req or servi	<u>Type</u> ce	Min/Max	<u>Usage</u>		
* SLN11	235	Product/Service ID Qualifier	С	ID	2/2	Not Used		
		Description: Code identifying the type/source Product/Service ID (234)	of the c	lescriptiv	e number used	d in		
* SLN12	234	Product/Service ID	С	AN	1/40	Not Used		
		Description: Identifying number for a product	or servi	ce				
* SLN13	235	Product/Service ID Qualifier	С	ID	2/2	Not Used		
		Description: Code identifying the type/source Product/Service ID (234)	of the c	lescriptiv	e number used	d in		
* SLN14	234	Product/Service ID	С	AN	1/40	Not Used		
		Description: Identifying number for a product	or servi	ce				
* SLN15	235	Product/Service ID Qualifier	С	ID	2/2	Not Used		
		Description: Code identifying the type/source Product/Service ID (234)	Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234)					
* SLN16	234	Product/Service ID	С	AN	1/40	Not Used		
		Description: Identifying number for a product	or servi	ce				
* SLN17	235	Product/Service ID Qualifier	С	ID	2/2	Not Used		
		Description: Code identifying the type/source Product/Service ID (234)	of the d	lescriptiv	e number used	d in		
* SLN18	234	Product/Service ID	С	AN	1/40	Not Used		
		Description: Identifying number for a product	or servi	ce				
* SLN19	235	Product/Service ID Qualifier	С	ID	2/2	Not Used		
		Description: Code identifying the type/source Product/Service ID (234)	of the c	lescriptiv	e number used	d in		
* SLN20	234	Product/Service ID	С	AN	1/40	Not Used		
		Description: Identifying number for a product	or servi	ce				
* SLN21	235	Product/Service ID Qualifier	С	ID	2/2	Not Used		
		Description: Code identifying the type/source Product/Service ID (234)	of the c	lescriptiv	e number used	d in		
* SLN22	234	Product/Service ID	С	AN	1/40	Not Used		
		Description: Identifying number for a product	or servi	ce				
* SLN23	235	Product/Service ID Qualifier	С	ID	2/2	Not Used		
		Description: Code identifying the type/source Product/Service ID (234)	of the o	lescriptiv	e number used	d in		
* SLN24	234	Product/Service ID	С	AN	1/40	Not Used		
		Description: Identifying number for a product	or servi	ce				
* SLN25	235	Product/Service ID Qualifier	С	ID	2/2	Not Used		

	<u>Ref</u>	<u>ld</u>	Element Name	Req	<u>Type</u>	Min/Max	<u>Usage</u>		
			Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234)						
*	SLN26	234	Product/Service ID	С	AN	1/40	Not Used		
			Description: Identifying number for a product of	Description: Identifying number for a product or service					
*	SLN27	235	Product/Service ID Qualifier	С	ID	2/2	Not Used		
	Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234)						n		
*	SLN28	234	Product/Service ID	С	AN	1/40	Not Used		
			Description: Identifying number for a product or service						

Syntax Rules:

- 1. C0706 If SLN07 is present, then SLN06 is required.
- 2. C0806 If SLN08 is present, then SLN06 is required.
- 3. P0910 If either SLN09 or SLN10 is present, then the other is required.
- 4. P1112 If either SLN11 or SLN12 is present, then the other is required.
- 5. P1314 If either SLN13 or SLN14 is present, then the other is required.
- 6. P1516 If either SLN15 or SLN16 is present, then the other is required.
- 7. P1718 If either SLN17 or SLN18 is present, then the other is required.
- 8. P1920 If either SLN19 or SLN20 is present, then the other is required.
- 9. P2122 If either SLN21 or SLN22 is present, then the other is required.
- 10. P2324 If either SLN23 or SLN24 is present, then the other is required.
- 11. P2526 If either SLN25 or SLN26 is present, then the other is required.
- 12. P2728 If either SLN27 or SLN28 is present, then the other is required.

Semantics:

- 1. SLN01 is the identifying number for the subline item.
- 2. SLN02 is the identifying number for the subline level. The subline level is analogous to the level code used in a bill of materials.
- 3. SLN03 is the configuration code indicating the relationship of the subline item to the baseline item.
- 4. SLN08 is a code indicating the relationship of the price or amount to the associated segment.

MEA Measurements

Pos: 1000 Max: 40
Detail - Optional
Loop: HL - Elements: 10
I

User Option (Usage): Used

Purpose: To specify physical measurements or counts, including dimensions, tolerances, variances, and weights(See Figures Appendix for example of use of C001)

<u>Ref</u> MEA01	<u>ld</u> 737	Element Name Measurement Reference ID Code	Req O	<u>Type</u> ID	Min/Max 2/2	<u>Usage</u> Used			
		Description: Code identifying the broad categ	_						
		CodeNamePAPallet DimensionsPDPhysical DimensionsPKPackage Dimensions							
MEA02	738	Measurement Qualifier	0	ID	1/3	Used			
		Description: Code identifying a specific product or process characteristic to which a measurement applies							
		CodeNameHTHeightLNLengthSZSkid HeightWDWidthWTWeight							
MEA03	739	Measurement Value	С	R	1/20	Used			
		Description: The value of the measurement User: For all code values with the exception of decimal number. For the SZ qualifier use the it							
MEA04	C001	Composite Unit of Measure	С	Comp		Used			
		Description: To identify a composite unit of muse)	easure(See Figu	res Appendix f	for examples of			
	355	Unit or Basis for Measurement Code	М	ID	2/2	Required			
		Description: Code specifying the units in which which a measurement has been taken	h a valı	ue is bein	g expressed, o	or manner in			
		CodeNameCMCentimeterE5Inches,FractionActualE8Inches,DecimalActualKGKilogramLBPoundOZOunce - Av							

*	<u>Ref</u>	<u>ld</u> 1018	Element Name Exponent	Req O	<u>Type</u> R	Min/Max 1/15	<u>Usage</u> Not Used			
			Description: Power to which a unit is raised							
*		649	Multiplier	0	R	1/10	Not Used			
			Description: Value to be used as a multiplier to obtain a new value							
*		355	Unit or Basis for Measurement Code	0	ID	2/2	Not Used			
			Description: Code specifying the units in which which a measurement has been taken	Description: Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken						
*		1018	Exponent	0	R	1/15	Not Used			
			Description: Power to which a unit is raised							
*		649	Multiplier	0	R	1/10	Not Used			
			Description: Value to be used as a multiplier t	o obtair	n a new v	alue /				
*		355	Unit or Basis for Measurement Code	0	ID	2/2	Not Used			
			Description: Code specifying the units in which which a measurement has been taken	Description: Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken						
*		1018	Exponent	0	R	1/15	Not Used			
			Description: Power to which a unit is raised							
*		649	Multiplier	Ο	R	1/10	Not Used			
			Description: Value to be used as a multiplier t	o obtair	n a new v	alue /				
*		355	Unit or Basis for Measurement Code	0	ID	2/2	Not Used			
			Description: Code specifying the units in which which a measurement has been taken	h a valu	ıe is bein	g expressed,	or manner in			
*		1018	Exponent	0	R	1/15	Not Used			
			Description: Power to which a unit is raised							
*		649	Multiplier	0	R	1/10	Not Used			
			Description: Value to be used as a multiplier t	o obtair	n a new v	alue /				
*		355	Unit or Basis for Measurement Code	0	ID	2/2	Not Used			
			Description: Code specifying the units in which which a measurement has been taken	h a valu	ıe is bein	g expressed,	or manner in			
*		1018	Exponent	0	R	1/15	Not Used			
			Description: Power to which a unit is raised							
*		649	Multiplier	0	R	1/10	Not Used			
			Description: Value to be used as a multiplier t	o obtair	n a new v	alue /				
	MEA05	740	Range Minimum	С	R	1/20	Used			
			Description: The value specifying the minimum	m of the	measur	ement range				
	MEA06	741	Range Maximum	С	R	1/20	Used			

	<u>Ref</u>	<u>ld</u>	Element Name	Req	<u>Type</u>	Min/Max	<u>Usage</u>
			Description: The value specifying the maximu	m of the	measur	ement range	
*	MEA07	935	Measurement Significance Code	0	ID	2/2	Not Used
			Description: Code used to benchmark, qualify	or furth	er define	e a measureme	nt value
*	MEA08	936	Measurement Attribute Code	С	ID	2/2	Not Used
			Description: Code used to express an attribute value cannot be determined	e respor	nse wher	n a numeric me	asurement
*	MEA09	752	Surface/Layer/Position Code	0	ID	2/2	Not Used
			Description: Code indicating the product surfa	ice, laye	r or posi	tion that is beir	g described
*	MEA10	1373	Measurement Method or Device	0	ID	2/4	Not Used
			Description: The method or device used to red	cord the	measur	ement	

Syntax Rules:

- 1. C0504 If MEA05 is present, then MEA04 is required.
- 2. C0604 If MEA06 is present, then MEA04 is required.
- 3. E0803 Only one of MEA08 or MEA03 may be present.
- 4. L07030506 If MEA07 is present, then at least one of MEA03, MEA05 or MEA06 is required.
- 5. R03050608 At least one of MEA03, MEA05, MEA06 or MEA08 is required.

Semantics:

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

CUR Currency

Pos: 1100 Max: 1 Detail - Optional Loop: HL - Elements: 21

User Option (Usage): Used

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

	Ref	<u>ld</u>	Elem	ent Name	Req	<u>Type</u>	Min/Max	<u>Usage</u>
	CUR01	98	Entity	/ Identifier Code	M	ID	2/2	Required
			Desc	ription: Code identifying an organization	al entity,	a physic	cal location, or	an individual
			Code BY SE	Name Buying Party (Purchaser) Selling Party				
	CUR02	100	Curre	ency Code	M	ID	3/3	Required
			Desc	ription: Code (Standard ISO) for country	in whos	se curren	cy the charges	s are specified
*	CUR03	280	Exch	ange Rate	0	R	4/10	Not Used
				ription: Value to be used as a multiplier one currency to another	conversi	on factor	r to convert mo	onetary value
*	CUR04	98	Entity	/ Identifier Code	0	ID	2/2	Not Used
			Desc	ription: Code identifying an organizationa	al entity,	a physic	cal location, or	an individual
*	CUR05	100	Curre	ency Code	0	ID	3/3	Not Used
			Desc	ription: Code (Standard ISO) for country	in whos	se curren	cy the charges	s are specified
*	CUR06	669	Curre	ency Market/Exchange Code	0	ID	3/3	Not Used
			Desc	ription: Code identifying the market upor	which	the curre	ncy exchange	rate is based
*	CUR07	374	Date/	Time Qualifier	С	ID	3/3	Not Used
			Desc	ription: Code specifying type of date or ti	me, or l	ooth date	and time	
*	CUR08	373	Date		0	DT	6/6	Not Used
			Desc	ription: Date (YYMMDD)				
*	CUR09	337	Time		0	TM	4/8	Not Used
			HHMI secon	ription: Time expressed in 24-hour clock MSSD, or HHMMSSDD, where H = hours ids (00-59) and DD = decimal seconds; ds (0-9) and DD = hundredths (00-99)	(00-23)), M = mi	nutes (00-59),	S = integer
*	CUR10	374	Date/	Time Qualifier	С	ID	3/3	Not Used
			Desc	ription: Code specifying type of date or ti	me, or l	ooth date	and time	
*	CUR11	373	Date		С	DT	6/6	Not Used
			Desc	ription: Date (YYMMDD)				
*	CUR12	337	Time		С	TM	4/8	Not Used

	Ref	<u>ld</u>	Element Name	Req	<u>Type</u>	Min/Max	<u>Usage</u>
			Description: Time expressed in 24-hour clock HHMMSSD, or HHMMSSDD, where H = hours seconds (00-59) and DD = decimal seconds; detenths (0-9) and DD = hundredths (00-99)	(00-23)	, M = mir	nutes (00-59), S	S = integer
*	CUR13	374	Date/Time Qualifier	С	ID	3/3	Not Used
			Description: Code specifying type of date or ti	me, or b	ooth date	and time	
*	CUR14	373	Date	С	DT	6/6	Not Used
			Description: Date (YYMMDD)				
*	CUR15	337	Time	С	TM	4/8	Not Used
			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)				
*	CUR16	374	Date/Time Qualifier	С	ID	3/3	Not Used
			Description: Code specifying type of date or ti	me, or b	ooth date	and time	
*	CUR17	373	Date	С	DT	6/6	Not Used
			Description: Date (YYMMDD)				
*	CUR18	337	Time	С	TM	4/8	Not Used
			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)				
*	CUR19	374	Date/Time Qualifier	С	ID	3/3	Not Used
			Description: Code specifying type of date or time, or both date and time				
*	CUR20	373	Date	С	DT	6/6	Not Used
			Description: Date (YYMMDD)				
*	CUR21	337	Time	С	TM	4/8	Not Used
		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 = intege					

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)

Syntax Rules:

- 1. C0807 If CUR08 is present, then CUR07 is required.
- 2. C0907 If CUR09 is present, then CUR07 is required.
- 3. C1110 If CUR11 is present, then CUR10 is required.
- 4. C1210 If CUR12 is present, then CUR10 is required.
- 5. C1413 If CUR14 is present, then CUR13 is required.
- 6. C1513 If CUR15 is present, then CUR13 is required.
- 7. C1716 If CUR17 is present, then CUR16 is required.
- 8. C1816 If CUR18 is present, then CUR16 is required.
- 9. C2019 If CUR20 is present, then CUR19 is required.

- 10. C2119 If CUR21 is present, then CUR19 is required.
- 11. L101112 If CUR10 is present, then at least one of CUR11 or CUR12 is required.
- 12. L131415 If CUR13 is present, then at least one of CUR14 or CUR15 is required.
- 13. L161718 If CUR16 is present, then at least one of CUR17 or CUR18 is required.
- 14. L192021 If CUR19 is present, then at least one of CUR20 or CUR21 is required.

CTT Transaction Totals

Pos: 0100 Max: 1 Summary - Optional Loop: N/A Elements: 7

User Option (Usage): Required

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

Element Summary:

<u>Re</u> CT	<u>f</u> T01	<u>ld</u> 354	Element Name Number of Line Items	Req M	Type N0	Min/Max 1/6	<u>Usage</u> Required	
			Description: Total number of line items in the	ransac	tion set			
СТ	T02	347	Hash Total	0	R	1/10	Used	
			Description: 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. 1.8 Third occurrence of value being hashed 1855 Hash total prior to truthree-digit field.	ing has	hed. 18.0	01 Fourth occເ	urrence of value	
* CT	T03	81	Weight	С	R	1/10	Not Used	
			Description: Numeric value of weight					
* CT	T04	355	Unit or Basis for Measurement Code	С	ID	2/2	Not Used	
			Description: Code specifying the units in which which a measurement has been taken	h a valu	e is bein	g expressed, o	or manner in	
* CT	T05	183	Volume	С	R	1/8	Not Used	
			Description: Value of volumetric measure					
* CT	T06	355	Unit or Basis for Measurement Code	С	ID	2/2	Not Used	
			Description: Code specifying the units in which which a measurement has been taken	n a valu	e is bein	g expressed, o	or manner in	
* CT	T07	352	Description	0	AN	1/80	Not Used	
			Description: A free-form description to clarify t	he relat	ed data	elements and	their content	

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.

SE Transaction Set Trailer

Pos: 0200 Max: 1 Summary - Mandatory Loop: N/A Elements: 2

User Option (Usage): Required

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	<u>ld</u>	Element Name	Req	<u>Type</u>	Min/Max	<u>Usage</u>
SE01	96	Number of Included Segments	М	N0	1/10	Required
		Description: Total number of segments include segments	ded in a	transacti	on set includin	g ST and SE
SE02	329	Transaction Set Control Number	М	AN	4/9	Required
		Description: Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set				action set

Comments:

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

Appendix

All Included Elements in All Included Segments

<u>ld</u>	<u>Elements</u>	Used in Segments
C001	Composite Unit of Measure	MEA, SLN
C040	Reference Identifier	REF
19	City Name	N4
22	Commodity Code	TD1
23	Commodity Code Qualifier	TD1
26	Country Code	N4
66	Identification Code Qualifier	N1, TD5
67	Identification Code	N1, TD5
79	Lading Description	TD1
80	Lading Quantity	TD1
81	Weight	TD1
87	Marks and Numbers	MAN
88	Marks and Numbers Qualifier	MAN
91	Transportation Method/Type Code	TD5
92	Purchase Order Type Code	PRF
93	Name	N1, N2
96	Number of Included Segments	SE
98	Entity Identifier Code	CUR, N1
100	Currency Code	CUR
103	Packaging Code	CLD, TD1
116	Postal Code	N4
127	Reference Identification	REF
128	Reference Identification Qualifier	REF
133	Routing Sequence Code	TD5
143	Transaction Set Identifier Code	ST
156	State or Province Code	N4
166	Address Information	N3
187	Weight Qualifier	TD1
212	Unit Price	SLN
234	Product/Service ID	LIN
235	Product/Service ID Qualifier	LIN
324	Purchase Order Number	PRF
327	Change Order Sequence Number	PRF
328	Release Number	PRF
329	Transaction Set Control Number	SE, ST
330	Quantity Ordered	SN1
337	Time	BSN, DTM
347	Hash Total	CTT
350	Assigned Identification	LIN, PRF, SLN, SN1
352	Description	REF
353	Transaction Set Purpose Code	BSN

<u>ld</u>	<u>Elements</u>	Used in Segments
354	Number of Line Items	CTT
355	Unit or Basis for Measurement Code	MEA, SLN, SN1, TD1
367	Contract Number	PRF
368	Shipment/Order Status Code	TD5
373	Date	BSN, DTM, PRF
374	Date/Time Qualifier	DTM
380	Quantity	SLN
382	Number of Units Shipped	CLD, SN1
387	Routing	TD5
396	Shipment Identification	BSN
622	Number of Loads	CLD
623	Time Code	DTM
624	Century	DTM
628	Hierarchical ID Number	HL
639	Basis of Unit Price Code	SLN
646	Quantity Shipped to Date	SN1
662	Relationship Code	SLN
732	Transit Time Direction Qualifier	TD5
733	Transit Time	TD5
734	Hierarchical Parent ID Number	HL
735	Hierarchical Level Code	HL
736	Hierarchical Child Code	HL
737	Measurement Reference ID Code	MEA
738	Measurement Qualifier	MEA
739	Measurement Value	MEA
740	Range Minimum	MEA
741	Range Maximum	MEA
883	Pallet Type Code	PAL
1005	Hierarchical Structure Code	BSN