856 Ship Notice/Manifest

X12/V4010/856: 856 Ship Notice/Manifest

Version: 1.5 Final

Author: Global Exchange Services

Company: Crate & Barrel

Notes: Shipment-Order-Item-Pack

Structure

FINAL APPROVED 03-16-

2009

Crate & Barrel 1 Ver 1.5

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>	<u>Page</u>
	ISA	Interchange Control Header	М	1			Must use	10
	GS	Functional Group Header	M	1			Must use	12
010	ST	Transaction Set Header	M	1			Must use	14
020	BSN	Beginning Segment for Ship Notice	М	1			Must use	15
040	DTM	Date/Time Reference	0	10			Used	16

Detail:

Dotaii.								
<u>Pos</u>	<u>ld</u>	Segment Name	Req	Max Use	Repeat	Notes	<u>Usage</u>	Page
LOOP ID	<u> - HL</u>		_	_	200000	C2/010L	_	17
010	HL	Hierarchical Level	M	1		C2/010	Must use	18
* 020	LIN	Item Identification	0	1				N/A
* 030	SN1	Item Detail (Shipment)	0	1				N/A
* 040	SLN	Subline Item Detail	0	1000				N/A
* 050	PRF	Purchase Order Reference	0	1				N/A
* 060	PO4	Item Physical Details	0	1				N/A
* 070	PID	Product/Item Description	0	200				N/A
* 080	MEA	Measurements	0	40				N/A
* 090	PWK	Paperwork	0	25				N/A
* 100	PKG	Marking, Packaging, Loading	0	25				N/A
110	TD1	Carrier Details (Quantity and Weight)	0	20			Used	19
120	TD5	Carrier Details (Routing Sequence/Transit Time)	0	12			Used	20
130	TD3	Carrier Details (Equipment)	0	12			Used	22
* 140	TD4	Carrier Details (Special Handling, or Hazardous Materials, or Both)	0	5				N/A
* 145	TSD	Trailer Shipment Details	0	1				N/A
150	REF	Reference Identification	0	>1			Used	23
* 151	PER	Administrative Communications Contact	0	3				N/A
* LOOP I	D - LH1		_	_	<u>100</u>	_		N/A
* 152	LH1	Hazardous Identification Information	0	1				N/A

* 153	LH2	Hazardous Classification Information	0	4				N/	Ά
* 154	LH3	Hazardous Material	0	12				N/	Ά
* 4==		Shipping Name	_						, <u>a</u>
* 155	LFH	Freeform Hazardous Material Information	0	20				N/	Α
* 156	LEP	EPA Required Data	0	>1				N/	/Α
* 157	LH4	Canadian Dangerous	0	1				N/	
		Requirements		_					
* 158	LHT	Transborder Hazardous Requirements	0	3				N/	Α
* 159	LHR	Hazardous Material Identifying Reference Numbers	0	10				N/	Ά
* 160	PER	Administrative Communications Contact	0	5				N/	Ά
* 161	LHE	Empty Equipment	0	1				ll N/	/Α
101	_,,_	Hazardous Material	Ŭ	•					, ,
		Information							
* LOOP IE	- CLD	·			200	·		N/	Α
* 170	CLD	Load Detail	Ō	1		-	-	N/	
* 180	REF	Reference Identification	0	200				N/	Ά
* 185	DTP	Date or Time or Period	0	1				N/	Ά
* 190	MAN	Marks and Numbers	0	>1				N/	Ά
200	DTM	Date/Time Reference	0	10			Used		24
210	FOB	F.O.B. Related Instructions	0	1			Used	2	25
* 215	PAL	Pallet Information	0	1				N/	Ά
LOOP ID	<u>- N1</u>		_	_	<u>200</u>	_	_	2	26
220	N1	Name	0	1			Used		27
* 230	N2	Additional Name Information	0	2				N/	Ά
240	N3	Address Information	0	2			Used	2	29
250	N4	Geographic Location	0	1			Used	3	30
* 260	REF	Reference Identification	0	12				N/	Ά
270	PER	Administrative Communications Contact	0	3			Used	3	31
* 280	FOB	F.O.B. Related	0	1				N/	Ά
		Instructions							
* 290	SDQ	Destination Quantity	0	50				N/	
* 300	ETD	Excess Transportation Detail	0	1				N/	Ά
* 310	CUR	Currency	0	1				N/	Ά
* LOOP IE	•		_	_	<u>>1</u>		_	N/	
* 320	SAC	Service, Promotion, Allowance, or Charge Information	Ō	1		<u>-</u>	-	N/	Ά
* 325	CUR	Currency	0	1				N/	Ά
* 330	GF	Furnished Goods and Services	0	1				N/	
* 335	YNQ	Yes/No Question	0	10				N/	Ά
* LOOP IE				_	<u>10</u>	_	_	N/	
* 340	LM	Code Source Information	Ō	1		-		N/	Ά
* 350	LQ	Industry Code	М	100				N/	Ά
* LOOP II) - V1		-	<u>-</u>	<u>>1</u>	_	-	N/	Ά

			_					11
* 360 * 370	V1 R4	Vessel Identification Port or Terminal	0	1 >1				N/A N/A
* 380	DTM	Date/Time Reference	0	>1				N/A
LOOP ID					200000	C2/010L		33
010	HL	Hierarchical Level	M	1	200000	C2/010L	Must use	34
* 020	LIN	Item Identification	O	1		02/010	Widot doo	N/A
* 030	SN1	Item Detail (Shipment)	Ö	1				N/A
* 040	SLN	Subline Item Detail	0	1000				N/A
050	PRF	Purchase Order Reference	0	1			Used	35
* 060	PO4	Item Physical Details	0	1				N/A
* 070	PID	Product/Item Description	0	200				N/A
* 080	MEA	Measurements	0	40				N/A
* 090	PWK	Paperwork	0	25				N/A
* 100	PKG	Marking, Packaging, Loading	0	25				N/A
* 110	TD1	Carrier Details (Quantity and Weight)	0	20				N/A
* 120	TD5	Carrier Details (Routing Sequence/Transit Time)	0	12				N/A
* 130	TD3	Carrier Details (Equipment)	0	12				N/A
* 140	TD4	Carrier Details (Special Handling, or Hazardous Materials, or Both)	0	5				N/A
* 145	TSD	Trailer Shipment Details	0	1				N/A
150	REF	Reference Identification	M	>1			Must use	36
* 151	PER	Administrative	0	3				N/A
* LOOP I	D _ I U1	Communications Contact			100			∃∐ _{N/A}
* 152	LH1	Hazardous Identification	Ō	- 1	100	-		N/A
* 153	LH2	Information Hazardous Classification	0	4				N/A
* 154	LH3	Information Hazardous Material	0	12				N/A
* 155	LFH	Shipping Name Freeform Hazardous	0	20				III N/A
	LEP	Material Information						
* 156 * 157	LEP LH4	EPA Required Data Canadian Dangerous	0	>1 1				N/A N/A
* 158	LHT	Requirements Transborder Hazardous	0	3				N/A
* 159	LHR	Requirements Hazardous Material	0	10				N/A
159	LIIK	Identifying Reference Numbers	O	10				III IN/A
* 160	PER	Administrative Communications Contact	0	5				N/A
* 161	LHE	Empty Equipment Hazardous Material Information	0	1				∐ N/A
* LOOP I	D - CLD		_		200] N/A
* 170	CLD	Load Detail	Ō	1		_		N/A
* 180	REF	Reference Identification	0	200				N/A
* 185	DTP	Date or Time or Period	0	1				N/A

* 190			_					
* ^^^	MAN	Marks and Numbers	0	>1				
* 200 * 210	DTM FOB	Date/Time Reference F.O.B. Related	0	10 1				
210	гов	Instructions	O	1				
* 215	PAL	Pallet Information	0	1				
* LOOP	ID - N1	· · · · · · · · · · · · · · · · · · ·		_	200	_		
* 220	N1	Name	Ō	1		-	-	
* 230	N2	Additional Name	0	2				
		Information						
* 240	N3	Address Information	0	2				
* 250	N4	Geographic Location	0	1				
* 260	REF	Reference Identification	0	12				
* 270	PER	Administrative	0	3				
* 200	FOR	Communications Contact	0	4				
* 280	FOB	F.O.B. Related Instructions	0	1				
* 290	SDQ	Destination Quantity	0	50				
* 300	ETD	Excess Transportation	0	1				
200		Detail	-	•				
* 310	CUR	Currency	0	1				
* LOOP	ID - SAC				<u>>1</u>		-	
* 320	SAC	Service, Promotion,	Ō	1				
		Allowance, or Charge						
* 00=	01.15	Information	_					
* 325	CUR	Currency	0	1				
* 330	GF	Furnished Goods and Services	0	1				
* 335	YNQ	Yes/No Question	0	10				
* LOOP		103/140 Question			10	-		
* 340	LM	Code Source Information	Ō	- 1	<u>10</u>	-	-	
			•	•				
* 350	LQ	Industry Code	M	100				
* 350		Industry Code	M	100				
LOOP	ID - V1		-	-	<u>>1</u>	_	<u>-</u>	
* LOOP	ID - V1 V1	Vessel Identification	ō	1	>1		-	
* 360 * 370	V1 R4	Vessel Identification Port or Terminal	0 0	1 >1	<u>>1</u>	_	<u>.</u>	
* 360 * 370 * 380	ID - V1 V1 R4 DTM	Vessel Identification	ō	1	>1		<u>.</u>	
* 360 * 370 * 380	ID - V1 V1 R4 DTM	Vessel Identification Port or Terminal Date/Time Reference	0 0 0	1 >1	<u>>1</u> 200000		· .	
* 360 * 370 * 380 * 380 • OOP IE	V1 R4 DTM	Vessel Identification Port or Terminal Date/Time Reference Hierarchical Level	0 0 0	1 >1 >1 >1		<u>C2/010L</u> C2/010	- Must use	
* 360 * 370 * 380 * 380 OOP II 010 020	V1 R4 DTM D- HL HL LIN	Vessel Identification Port or Terminal Date/Time Reference Hierarchical Level Item Identification	0 0 0 0	1 >1 >1 >1 1			Must use	
* 360 * 370 * 380 * 380 OOP II 010 020 030	V1 R4 DTM D-HL LIN SN1	Vessel Identification Port or Terminal Date/Time Reference Hierarchical Level Item Identification Item Detail (Shipment)	0 0 0 0	1 >1 >1 >1 1 1				
* 360 * 370 * 380 * 380 -OOP II 010 020 030 * 040	V1 R4 DTM D-HL LIN SN1 SLN	Vessel Identification Port or Terminal Date/Time Reference Hierarchical Level Item Identification Item Detail (Shipment) Subline Item Detail	0 0 0 0	1 >1 >1 >1 1 1 1 1000			Must use	
* LOOP * 360 * 370 * 380 LOOP II 010 020 030 * 040 * 050	V1 R4 DTM D-HL LIN SN1	Vessel Identification Port or Terminal Date/Time Reference Hierarchical Level Item Identification Item Detail (Shipment) Subline Item Detail Purchase Order Reference	0 0 0 0	1 >1 >1 >1 1 1			Must use	
* LOOP 10 10 10 10 10 10 10 1	V1 R4 DTM D - HL LIN SN1 SLN PRF	Vessel Identification Port or Terminal Date/Time Reference Hierarchical Level Item Identification Item Detail (Shipment) Subline Item Detail Purchase Order Reference Item Physical Details	0 0 0 0 M 0 0 0	1 >1 >1 >1 1 1 1000 1			Must use	
* LOOP * 360 * 370 * 380 LOOP II 010 020 030 * 040 * 050 * 060 * 070	V1 R4 DTM D-HL LIN SN1 SLN PRF PO4 PID	Vessel Identification Port or Terminal Date/Time Reference Hierarchical Level Item Identification Item Detail (Shipment) Subline Item Detail Purchase Order Reference Item Physical Details Product/Item Description	0 0 0 0	1 >1 >1 >1 1 1 1000 1 1 200			Must use	
* LOOP * 360 * 370 * 380 LOOP II 010 020 030 * 040 * 050 * 060 * 070 * 080	V1 R4 DTM D-HL HL LIN SN1 SLN PRF PO4 PID MEA	Vessel Identification Port or Terminal Date/Time Reference Hierarchical Level Item Identification Item Detail (Shipment) Subline Item Detail Purchase Order Reference Item Physical Details Product/Item Description Measurements	- 0 0 0 0 0 0 0 0	1 >1 >1 >1 1 1 1000 1 1 200 40			Must use	
* LOOP * 360 * 370 * 380 LOOP II 010 020 030 * 040 * 050 * 060 * 070 * 080 * 090	V1 R4 DTM D-HL LIN SN1 SLN PRF PO4 PID MEA PWK	Vessel Identification Port or Terminal Date/Time Reference Hierarchical Level Item Identification Item Detail (Shipment) Subline Item Detail Purchase Order Reference Item Physical Details Product/Item Description Measurements Paperwork	- 0 0 0 0 0 0 0 0 0	1 >1 >1 >1 1 1 1000 1 1 200 40 25			Must use	
* LOOP * 360 * 370 * 380 LOOP II 010 020 030 * 040 * 050 * 060 * 070 * 080	V1 R4 DTM D-HL HL LIN SN1 SLN PRF PO4 PID MEA	Vessel Identification Port or Terminal Date/Time Reference Hierarchical Level Item Identification Item Detail (Shipment) Subline Item Detail Purchase Order Reference Item Physical Details Product/Item Description Measurements Paperwork Marking, Packaging, Loading	- 0 0 0 0 0 0 0 0	1 >1 >1 >1 1 1 1000 1 1 200 40			Must use	
* LOOP II	V1 R4 DTM D-HL LIN SN1 SLN PRF PO4 PID MEA PWK	Vessel Identification Port or Terminal Date/Time Reference Hierarchical Level Item Identification Item Detail (Shipment) Subline Item Detail Purchase Order Reference Item Physical Details Product/Item Description Measurements Paperwork Marking, Packaging,	- 0 0 0 0 0 0 0 0 0	1 >1 >1 >1 1 1 1000 1 1 200 40 25			Must use	
* LOOP II	V1 R4 DTM D - HL LIN SN1 SLN PRF PO4 PID MEA PWK PKG	Vessel Identification Port or Terminal Date/Time Reference Hierarchical Level Item Identification Item Detail (Shipment) Subline Item Detail Purchase Order Reference Item Physical Details Product/Item Description Measurements Paperwork Marking, Packaging, Loading Carrier Details (Quantity	- 0 0 0 0 0 0 0 0 0	1 >1 >1 >1 1 1 1 1 1 1 1 1 2 1 2 1 2 5 2 5 2 5			Must use Used	
* LOOP 1	V1 R4 DTM D - HL LIN SN1 SLN PRF PO4 PID MEA PWK PKG TD1	Vessel Identification Port or Terminal Date/Time Reference Hierarchical Level Item Identification Item Detail (Shipment) Subline Item Detail Purchase Order Reference Item Physical Details Product/Item Description Measurements Paperwork Marking, Packaging, Loading Carrier Details (Quantity and Weight) Carrier Details (Routing		1			Must use Used	

		Handling, or Hazardous				
		Materials, or Both)				
* 145	TSD	Trailer Shipment Details	0	1		
* 150	REF	Reference Identification	0	>1		
* 151	PER	Administrative	0	3		
-		Communications Contact				
* LOOP I			_	<u>-</u>	<u>100</u>	
* 152	LH1	Hazardous Identification Information	0	1		
* 153	LH2	Hazardous Classification Information	0	4		
* 154	LH3	Hazardous Material Shipping Name	0	12		
* 155	LFH	Freeform Hazardous Material Information	0	20		
* 156	LEP	EPA Required Data	0	>1		
* 157	LH4	Canadian Dangerous Requirements	0	1		
* 158	LHT	Transborder Hazardous Requirements	0	3		
* 159	LHR	Hazardous Material Identifying Reference Numbers	0	10		
* 160	PER	Administrative Communications Contact	0	5		
* 161	LHE	Empty Equipment Hazardous Material Information	0	1		
* 1.000	D CI D		·		200	
* LOOP I	CLD	Load Detail	Ō	<u>-</u> 1	<u>200</u>	
* 180	REF	Reference Identification	0	200		
* 185	DTP	Date or Time or Period	0	1		
* 190	MAN	Marks and Numbers	0	 >1		
200	DTM	Date/Time Reference	Ō	10		Must use
* 210	FOB	F.O.B. Related Instructions	0	1		
* 215	PAL	Pallet Information	0	1		
* LOOP I	D - N1	•		_	<u>200</u>	
* 220	N1	Name	Ō	1		
* 230	N2	Additional Name Information	0	2		
* 240	N3	Address Information	0	2		
* 250	N4	Geographic Location	0	1		
* 260	REF	Reference Identification	0	12		
* 270	PER	Administrative Communications Contact	0	3		
* 280	FOB	F.O.B. Related Instructions	0	1		
* 290	SDQ	Destination Quantity	0	50		
* 300	ETD	Excess Transportation Detail	0	1		
* 310	CUR	Currency	0	1		
* LOOP I			_	_	<u>>1</u>	
* 320	SAC	Service, Promotion,	0	1		

* 005	OLID	0	_	4			1111
* 325 * 330	CUR GF	Currency Furnished Goods and	0	1 1			
330	GF	Services	O	1			
* 335	YNQ	Yes/No Question	0	10			
* LOOP I	•	· · · · · · · · · · · · · · · · · · ·		_	10	_	
* 340	LM	Code Source Information	Ō	1	_	<u>-</u>	- '
* 350	LQ	Industry Code	M	100			
* LOOP I	D V4						
* 360	V1	Vessel Identification	Ō	<u>-</u> 1	<u>>1</u>	-	
* 370	R4	Port or Terminal	0	>1 >1			
* 380	DTM	Date/Time Reference	0	>1			
*		Date/ Time Reference			·		
LOOP ID			-	_	<u>200000</u>	C2/010L	
010	HL	Hierarchical Level	M	1		C2/010	Must use
* 020	LIN	Item Identification	0	1			
* 030	SN1	Item Detail (Shipment)	0	1			
* 040	SLN	Subline Item Detail	0	1000			
* 050	PRF	Purchase Order Reference	0	1			
060	PO4	Item Physical Details	0	1			Used
* 070	PID	Product/Item Description	0	200			
* 080	MEA	Measurements	0	40			
* 090	PWK	Paperwork	0	25			
* 100	PKG	Marking, Packaging, Loading	0	25			
* 110	TD1	Carrier Details (Quantity and Weight)	0	20			
* 120	TD5	Carrier Details (Routing Sequence/Transit Time)	0	12			
* 130	TD3	Carrier Details (Equipment)	0	12			
* 140	TD4	Carrier Details (Special Handling, or Hazardous Materials, or Both)	0	5			
* 145	TSD	Trailer Shipment Details	0	1			
* 150	REF	Reference Identification	0	>1			
* 151	PER	Administrative	0	3			
		Communications Contact					,
LOOP I			_	_	<u>100</u>	_	
* 152	LH1	Hazardous Identification Information	0	1			
* 153	LH2	Hazardous Classification Information	0	4			
* 154	LH3	Hazardous Material Shipping Name	0	12			
* 155	LFH	Freeform Hazardous Material Information	0	20			
* 156	LEP	EPA Required Data	0	>1			
* 157	LH4	Canadian Dangerous Requirements	0	1			
* 158	LHT	Transborder Hazardous Requirements	0	3			
* 159	LHR	Hazardous Material Identifying Reference Numbers	0	10			
* 160	PER	Administrative	0	5			

*LOOP ID - CLD	* 161	LHE	Communications Contact Empty Equipment Hazardous Material Information	0	1				N/A
N/A 180 REF Reference Identification O 200 O O O O O O O O O	* LOOP I	D - CLD				200	•	,	IIIII _{N/A}
* 180 REF Reference Identification O 200 * 185 DTP Date or Time or Period O 1 190 MAN Marks and Numbers O > -1 200 DTM Date/Time Reference O 10 * 210 FOB F.O.B. Related O 1 Instructions * 215 PAL Pallet Information O 1 * 220 N1 Name O 1 * 220 N1 Name O 2 Information O 2 * 240 N3 Address Information O 1 * 250 N4 Geographic Location O 1 * 260 REF Reference Identification O 12 * 270 PER Administrative O 3 * 270 PER Administrative O 3 * 290 SDQ Destination Quantity O 50 * 300 ETD Excess Transportation O 1 * 210 PID SAC * 320 SAC Service, Promotion, Allowance, or Charge Information * 325 CUR Currency O 1 * 330 GF Furnished Goods and O 1 * 330 SAC Service, Promotion, Allowance, or Charge Information * 335 YNQ Yes/No Question O 1 * 330 LQ Industry Code M 100 * 100 PID - VI * 330 V1 Vessel Identification O 1 * 340 V1		_	Load Detail	Ō	1		-		IIII N/A
* 185 DTP Date or Time or Period O 1 190 MAN Marks and Numbers O >1 190 MAN Marks and Numbers O >1 190 MAN Marks and Numbers O >1 200 DTM Date/Time Reference O 10 10 *210 FOB F.O.B. Related O 1 Instructions * 215 PAL Pallet Information O 1 * 220 N1 Name O 1 * 220 N1 Name O 1 * 230 N2 Additional Name O 2 Information * 240 N3 Address Information O 2 * 250 N4 Geographic Location O 1 * 250 N4 Geographic Location O 1 * 270 PER Administrative O 3 * 270 PER Administrative O 3 * 270 Communications Contact * 280 FOB F.O.B. Related O 1 * 1 Instructions * 290 SDQ Destination Quantity O 50 * 300 ETD Excess Transportation O 1 * 250 SAC Service, Promotion, Allowance, or Charge Information * 330 SAC Service, Promotion, Allowance, or Charge Information * 335 YNQ Yes/No Question O 1 * 335 YNQ Yes/No Question O 1 * 340 LM Code Source Information O 1 * 340 LM Code Source Information O 1 * 350 LQ Industry Code M 100 * 10 * 10 * 10 * 10 * 10 * 10 * 1			Reference Identification	0	200				IIII N/A
*200 DTM Date/Time Reference O 10 *210 FOB F.O.B. Related O 1 Instructions *215 PAL Pallet Information O 1 *200 N1 Name O 1 *220 N1 Name O 2 Information *240 N3 Address Information O 1 *250 N4 Geographic Location O 1 *260 REF Reference Identification O 12 *270 PER Administrative O 3 *270 PER Administrative O 3 *280 FOB F.O.B. Related O 1 Instructions *290 SDQ Destination Quantity O 50 *300 ETD Excess Transportation O 1 *290 SDQ Destination Quantity O 50 *300 ETD Excess Transportation O 1 *310 CUR Currency O 1 *325 CUR Currency O 1 *330 GF Furnished Goods and O 1 *330 GF Furnished Goods and O 1 *3310 FURNISHED FOR Services *332 YNO Yes/No Question O 10 **LOOP ID-LM** *340 LM Code Source Information O 1 *350 LQ Industry Code M 100 **LOOP ID-LM** *340 LM Code Source Information O 1 *350 V1 Vessel Identification O 1 *360 V1 Vessel Identification O 1 *370 R4 Port or Terminal O >1		DTP	Date or Time or Period	0	1				N/A
* 210 FOB F.O.B. Related Instructions * 215 PAL Pallet Information O 1 * LOOP ID - N1 * 220 N1 Name O 1 * 220 N1 Name O 2 Information * 240 N3 Additional Name Information * 240 N3 Address Information O 2 * 250 N4 Geographic Location O 1 * 260 REF Reference Identification O 12 * 270 PER Administrative O 3 Communications Contact * 280 FOB F.O.B. Related O 1 Instructions * 290 SDQ Destination Quantity O 50 * 300 ETD Excess Transportation O 1 * 240 N3 N/A N/A * 250 N4 Geographic Location O 12 * 270 PER Administrative O 3 Lompinications Contact Oction O 1 * 290 SDQ Destination Quantity O 50 * 300 ETD Excess Transportation O 1 Detail * 310 CUR Currency O 1 * LOOP ID - SAC * 320 SAC Service, Promotion, O 1 Allowance, or Charge Information * 325 CUR Currency O 1 * 330 GF Furnished Goods and O 1 Services * 331 YNQ Yes/No Question O 10 * LOOP ID - LM * 340 LM Code Source Information O 1 * 341 LM Code Source Information O 1 * 343 LQ Industry Code M 100 * LOOP ID - V1 * 360 V1 Vessel Identification O 1 * 370 R4 Port or Terminal O > 1	190	MAN	Marks and Numbers	0	>1			Used	49
Instructions	* 200	DTM	Date/Time Reference	0	10				N/A
* 215 PAL Pallet Information O 1 * LOOP ID - N1 * LOOP ID - N1 * 220 N1 Name O 1 * 230 N2 Additional Name O 2 Information * 240 N3 Address Information O 2 * 250 N4 Geographic Location O 1 * 250 N4 Geographic Location O 12 * 270 PER Administrative O 3 Communications Contact * 280 FOB F.O.B. Related O 1 Instructions * 290 SDQ Destination Quantity O 50 * 300 ETD Excess Transportation O 1 * 310 CUR Currency O 1 * 320 SAC Service, Promotion, Allowance, or Charge Information * 325 CUR Currency O 1 * 330 GF Furnished Goods and O 1 * 330 GF Furnished Goods and O 1 * 331 CUR Currency O 1 * 332 SAC Service Promotion O 1 * 333 GF Furnished Goods and O 1 * 334 LM Code Source Information O 1 * 4 335 YNQ Yes/No Question O 10 * LOOP ID - LM	* 210	FOB		0	1				N/A
*LOOP ID - N1 * 220 N1 Name									
* 220 N1 Name	-	•	Pallet Information	0	1		<u>.</u>		1
* 230 N2 Additional Name Information * 240 N3 Address Information O 2 * 250 N4 Geographic Location O 1 * 260 REF Reference Identification O 12 * 270 PER Administrative O 3 Communications Contact * 280 FOB F.O.B. Related O 1 Instructions * 290 SDQ Destination Quantity O 50 * 300 ETD Excess Transportation O 1 Detail * 310 CUR Currency O 1 * LOOP ID - SAC * 325 CUR Currency O 1 * 330 GF Furnished Goods and O 1 Services * 331 YNQ Yes/No Question O 10 * LOOP ID - LM * 340 LM Code Source Information O 1 * 340 LQ Industry Code M 100 * LOOP ID - V1 * 360 V1 Vessel Identification O 1 * N/A * N/A * 370 R4 Port or Terminal O > 1				_	<u>-</u>	<u>200</u>	_		11111
Information 1	-			_					
* 250 N4 Geographic Location O 1 * 260 REF Reference Identification O 12 * 270 PER Administrative O 3 Communications Contact * 280 FOB F.O.B. Related O 1 Instructions * 290 SDQ Destination Quantity O 50 * 300 ETD Excess Transportation O 1 Detail * 310 CUR Currency O 1 * 1 LOOP ID - SAC * 320 SAC Service, Promotion, Allowance, or Charge Information Information * 325 CUR Currency O 1 * 330 GF Furnished Goods and O 1 Services * 335 YNQ Yes/No Question O 10 * LOOP ID - LM * 340 LM Code Source Information O 1 * 350 LQ Industry Code M 100 * LOOP ID - V1 * 360 V1 Vessel Identification O 1 * N/A * 370 R4 Port or Terminal O > 1	* 230		Information						
* 260 REF Reference Identification O 12 * 270 PER Administrative O 3 Communications Contact * 280 FOB F.O.B. Related O 1 Instructions * 290 SDQ Destination Quantity O 50 * 300 ETD Excess Transportation O 1 Detail * 310 CUR Currency O 1 * 320 SAC Service, Promotion, Allowance, or Charge Information * 325 CUR Currency O 1 * 330 GF Furnished Goods and O 1 Services * 335 YNQ Yes/No Question O 10 * LOOP ID - LM * 340 LM Code Source Information O 1 * 350 LQ Industry Code M 100 * LOOP ID - V1 * 360 V1 Vessel Identification O 1 * 370 R4 Port or Terminal O > 1	_	-		_					11111
* 270 PER Administrative Communications Contact * 280 FOB F.O.B. Related O 1 Instructions * 290 SDQ Destination Quantity O 50 N/A * 300 ETD Excess Transportation O 1 Detail * 310 CUR Currency O 1 N/A * 100PID-SAC * 320 SAC Service, Promotion, Allowance, or Charge Information N/A * 330 GF Furnished Goods and O 1 Services * 335 YNQ Yes/No Question O 10 * LOOP ID-LM * 340 LM Code Source Information O 1 Services * 340 LQ Industry Code M 100 * LOOP ID-V1 * 360 V1 Vessel Identification O 1 * 370 R4 Port or Terminal O > 1			.						1 1 1 1 1
* 280 FOB F.O.B. Related O									
Instructions	* 270	PER		0	3				N/A
* 300 ETD Excess Transportation O 1 Detail * 310 CUR Currency O 1 * LOOP ID - SAC * 320 SAC Service, Promotion, O 1 Allowance, or Charge Information * 325 CUR Currency O 1 * 330 GF Furnished Goods and O 1 Services * 335 YNQ Yes/No Question O 10 * LOOP ID - LM * 340 LM Code Source Information O 1 * 350 LQ Industry Code M 100 * LOOP ID - V1 * 360 V1 Vessel Identification O 1 * 370 R4 Port or Terminal O >1	* 280	FOB		0	1				N/A
N/A	* 290	SDQ	Destination Quantity	0	50				N/A
* LOOP ID - SAC	* 300	ETD		0	1				N/A
* 320 SAC Service, Promotion, O 1 Allowance, or Charge Information * 325 CUR Currency O 1 * 330 GF Furnished Goods and O 1 Services * 335 YNQ Yes/No Question O 10 * LOOP ID - LM	* 310	CUR	Currency	0	1				N/A
Allowance, or Charge Information * 325		D - SAC		_	_	<u>>1</u>	_	.	N/A
* 330 GF Furnished Goods and O 1 Services * 335 YNQ Yes/No Question O 10 * LOOP ID - LM * 340 LM Code Source Information O 1 * 350 LQ Industry Code M 100 * LOOP ID - V1 * 360 V1 Vessel Identification O 1 * 370 R4 Port or Terminal O >1	* 320	SAC	Allowance, or Charge	0	1				N/A
Services			<u> </u>						<u>, </u>
* LOOP ID - LM 10 * 340 LM Code Source Information O 1 N/A * 350 LQ Industry Code M 100 N/A * LOOP ID - V1 ≥1 N/A * 360 V1 Vessel Identification O 1 N/A * 370 R4 Port or Terminal O >1 N/A	* 330	GF		0	·				N/A
* 340 LM Code Source Information O 1 * 350 LQ Industry Code M 100 * LOOP ID - V1 * 360 V1 Vessel Identification O 1 * 370 R4 Port or Terminal O >1 N/A		•	Yes/No Question	0	10				1
* 350 LQ Industry Code M 100 * LOOP ID - V1				_	_	<u>10</u>	_	-	1111
* LOOP ID - V1 * 360 V1 Vessel Identification O 1 * 370 R4 Port or Terminal O >1 N/A				_	-				
* 360 V1 Vessel Identification O 1	* 350	LQ	Industry Code	M	100				N/A
* 360 V1 Vessel Identification O 1	* LOOP I	D - V1				>1	•		IIII _{N/A}
* 370 R4 Port or Terminal O >1 N/A			Vessel Identification	Ō	1	<u></u>	_	<u>-</u>	11111
									1 1 1 1 1
									1 1 1 1 1

Summary:

<u>Pos</u>	<u>ld</u>	Segment Name	Req	Max Use	Repeat	<u>Notes</u>	<u>Usage</u>	<u>Page</u>
010	CTT	Transaction Totals	0	1		N3/010	Used	51
020	SE	Transaction Set Trailer	M	1			Must use	52
	GE	Functional Group Trailer	M	1			Must use	53
	IEA	Interchange Control	M	1			Must use	54
		Trailer						

Notes:

3/010 Number of line items (CTT01) is the accumulation of the number of HL segments. If used, hash total (CTT02) is the sum of the value of units shipped (SN102) for each SN1 segment.

Comments:

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

Buyer Usage:

Outlines Shipment/Order/Item/Pack (SOIP) Structure. A separate guideline will be provided for Shipment/Order/Pack/Item (SOPI).

Change Log:

03-03-2009 v 1.5

Added element TD506 (within the TD5 loop within the HL1 segment) to contain a 'CD' if the shipment is being consolidated by someone other than the vendor.

Added N3 and N4 segments (within the N1 loop within the HL1 segment) to send additional address information for a Stuffer, Consolidator, Manufacturer and Booking Party (ZZ).

The Stuffer, code 'LG', is mandatory for all international shipments to the U.S. arriving by ocean. This is necessary to provide US Customs with an ISF (Importer Security Filing) document 24 hours prior to the goods being loaded onto an ocean vessel.

Added following codes to element N101:

MF, LG, CS, ZZ

Crate & Barrel 9 Ver 1.5

ISA Interchange Control Header

Pos: Max: 1 Heading - Mandatory Loop: N/A Elements: 16

User Option (Usage): Must use

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

Element Summary:

Ref ISA01	<u>ld</u> 101	Element Na Authorization	<u>me</u> on Information Qualifier	Req M	Type ID	Min/Max 2/2	<u>Usage</u> Must use
			: Code to identify the type of informulated codes are used.	mation in	n the Auth	norization Infor	mation
ISA02	102	Authorization	on Information	М	AN	10/10	Must use
		sender or the	: Information used for additional ic e data in the interchange; the type Qualifier (I01)				
ISA03	103	Security Info	ormation Qualifier	М	ID	2/2	Must use
			: Code to identify the type of informulated codes are used.	mation in	n the Sec	urity Informatio	on
ISA04	104	Security Info	ormation	М	AN	10/10	Must use
			: This is used for identifying the se the interchange; the type of infor s)				
ISA05	105	Interchange	ID Qualifier	М	ID	2/2	Must use
		sender or red	 Qualifier to designate the system ceiver ID element being qualified ndard codes are used. 	n/method	d of code	structure used	I to designate the
ISA06	106	Interchange	Sender ID	М	AN	15/15	Must use
			: Identification code published by tata to them; the sender always co				
ISA07	105	Interchange	ID Qualifier	М	ID	2/2	Must use
			: Qualifier to designate the system ceiver ID element being qualified	n/method	d of code	structure used	I to designate the
		Code 12 ZZ	Name Phone (Telephone Companies) Buyer Usage: "12" is the Production ID Quali Mutually Defined Buyer Usage: "ZZ" is the Test ID Qualifier	ifier			
ISA08	107	Interchange	Receiver ID	М	AN	15/15	Must use
		by the sende	e: 8472722888 - Production ID				
ISA09	108	Interchange	Date	М	DT	6/6	Must use

		Description: Date of the interchange				
ISA10	109	Interchange Time	М	TM	4/4	Must use
		Description: Time of the interchange				
ISA11	I10	Interchange Control Standards Identifier	М	ID	1/1	Must use
		Description: Code to identify the agency resp message that is enclosed by the interchange hall valid standard codes are used.			ntrol standar	d used by the
ISA12	l11	Interchange Control Version Number	М	ID	5/5	Must use
		Description: Code specifying the version num All valid standard codes are used.	nber of th	ne intercha	ange control	segments
ISA13	l12	Interchange Control Number	М	N0	9/9	Must use
		Description: A control number assigned by th	e interch	nange sen	der	
ISA14	I13	Acknowledgment Requested	М	ID	1/1	Must use
		Description: Code sent by the sender to requipe All valid standard codes are used.	est an ir	nterchange	e acknowled	gment (TA1)
ISA15	l14	Usage Indicator	М	ID	1/1	Must use
		Description: Code to indicate whether data er production or information All valid standard codes are used.	nclosed	by this int	erchange en	velope is test,
ISA16	l15	Component Element Separator	М		1/1	Must use
		Description: Type is not applicable; the comp data element; this field provides the delimiter u				

Example:

ISA^00^ ^00^ ^01^123456789 ^12^8472722888 ^070602^1339^U^00401^000000310^0^P^|

the segment terminator

a composite data structure; this value must be different than the data element separator and

GS Functional Group Header

Pos: Max: 1 Heading - Mandatory Loop: N/A Elements: 8

User Option (Usage): Must use

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

Element Summary:

Element	t Sumr	nary:				
Ref	<u>ld</u>	Element Name	Req	Type	Min/Max	<u>Usage</u>
GS01	479	Functional Identifier Code	M	ID	2/2	Must use
		Description: Code identifying a group of	application re	elated tra	nsaction sets	
		CodeNameSHShip Notice/Manifest (856)				
GS02	142	Application Sender's Code	М	AN	2/15	Must use
		Description: Code identifying party send	ling transmiss	sion; code	es agreed to by	y trading partners
GS03	124	Application Receiver's Code	М	AN	2/15	Must use
		Description: Code identifying party recepartners	_		_	
		Buyer Usage: You should return the GS	ID as sent in	the origin	nal 850 GS02	element.
		It is possible for you to receive multiple IL purchase order will belong to only one G.		ge of pure	chase orders f	rom us. Each
		Here are the possible GS IDs:				
		"CRATEDOMES" - Crate and Barrel Don "CRATEDOMREP" - Crate and Barrel Do "EUROMDESIG" - Crate and Barrel Inter "EUROMDESAGT" - Crate and Barrel Inter "CRATECUST" - Crate and Barrel Custo.	omestic Rep national ternational Ag	gent		
		"CB2DOMES" - CB2 Domestic "CB2DOMREP" - CB2 Domestic Rep "CB2INTL" - CB2 International "CB2INTLAGT" - CB2 International Age	nt			
		"CRATECANADA" - Crate and Barrel Ca "CRATECANREP" - Crate and Barrel Ca				
		"LONODDOMES" - Land of Nod Domest "LONODDOMREP" - Land of Nod Domes "LONODMBRK" - Land of Nod Internation "LONODMBAGT" - Land of Nod Internati "LONODCUST" - Land of Nod Custom	stic Rep nal			
GS04	373	Date	М	DT	8/8	Must use
		Description: Date expressed as CCYYN	MDD			
GS05	337	Time	М	TM	4/8	Must use
		Description: Time expressed in 24-hour HHMMSSD, or HHMMSSDD, where H = seconds (00-59) and DD = decimal secor tenths (0-9) and DD = hundredths (00-99)	hours (00-23) nds; decimal s), M = mii	nutes (00-59),	S = integer
GS06	28	Group Control Number	М	N0	1/9	Must use

Description: Assigned number originated and maintained by the sender

GS07 455 Responsible Agency Code M ID 1/2 Must use

Description: Code identifying the issuer of the standard; this code is used in conjunction with Data Element 480

All valid standard codes are used.

GS08 480 Version / Release / Industry Identifier Code M AN 1/12 Must use

Description: Code indicating the version, release, subrelease, and industry identifier of the EDI standard being used, including the GS and GE segments; if code in DE455 in GS segment is X, then in DE 480 positions 1-3 are the version number; positions 4-6 are the release and subrelease, level of the version; and positions 7-12 are the industry or trade association identifiers (optionally assigned by user); if code in DE455 in GS segment is T, then other formats are allowed

CodeName004010Draft Standards Approved for Publication by ASC X12 Procedures Review
Board through October 1997

Semantics:

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

Comments:

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

Example:

GS^SH^123456789^CRATEDOMES^070602^1339^101^X^004010

ST Transaction Set Header

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

User Option (Usage): Must use

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

Element Summary:

Ref	<u>ld</u>	Element Name	Req	<u>Type</u>	Min/Max	<u>Usage</u>
ST01	143	Transaction Set Identifier Code	M	ID	3/3	Must use
		Description: Code uniquely identifying a Translational All valid standard codes are used.	ansaction	Set		
ST02	329	Transaction Set Control Number	М	AN	4/9	Must use
		Description: Identifying control number that	must be i	unique wi	thin the transa	ction 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).

Example:

ST^856^1234

BSN Beginning Segment for Ship Notice

Pos: 020 Max: 1 Heading - Mandatory Loop: N/A Elements: 4

User Option (Usage): Must use

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

Element Summary:

<u>Ref</u> BSN01	<u>ld</u> 353	Element Name Transaction Set Purpose Code	<u>Req</u> M	Type ID	Min/Max 2/2	<u>Usage</u> Must use
		Description: Code identifying purpose of trans	saction s	set		
		CodeName00Original				
BSN02	396	Shipment Identification	М	AN	2/30	Must use
		Description: A unique control number assigne shipment	ed by the	e original	shipper to iden	tify a specific
BSN03	373	Date	М	DT	8/8	Must use
		Description: Date expressed as CCYYMMDD				
BSN04	337	Time	М	TM	4/8	Must use
		Description: Time expressed in 24-hour clock HHMMSSD, or HHMMSSDD, where H = hours seconds (00-59) and DD = decimal seconds; d tenths (0-9) and DD = hundredths (00-99) Buyer Usage: Use date format HHMMSSDD	(00-23)), M = mir	nutes (00-59), \$	S = integer

Syntax Rules:

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

Semantics:

- 1. BSN03 is the date the shipment transaction set is created.
- 2. BSN04 is the time the shipment transaction set is created.
- 3. BSN06 is limited to shipment related codes.

Comments:

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

Example:

BSN^00^81307151^20070305^06321115

Date/Time Reference DTM

Pos: 040 Max: 10 **Heading - Optional** Loop: N/A Elements: 3

User Option (Usage): Used

Purpose: To specify pertinent dates and times

Element Summary:

Ref DTM01	<u>ld</u> 374	Element National Date/Time Control		<u>Req</u> M	Type ID	Min/Max 3/3	<u>Usage</u> Must use
		Description	: Code specifying type of date or ti	ime, or b	ooth date	and time	
		<u>Code</u> 011	<u>Name</u> Shipped				
DTM02	373	Date		Χ	DT	8/8	Must use
		Description	: Date expressed as CCYYMMDD)			
DTM03	337	Time		Χ	TM	4/8	Used
		•	: Time expressed in 24-hour clock or HHMMSSDD, where H = hours			,	,

seconds (00-59) and DD = decimal seconds; decimal seconds are expressed as follows: D = tenths (0-9) and DD = hundredths (00-99)

Buyer Usage: Recommended if DTM_01 = "011"

Syntax Rules:

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

Buyer Usage:

Buyer requires DTM Segment with DTM_01 = "011".

Example:

DTM^011^20070305^06150422

Loop Hierarchical Level

Pos: 010 Repeat: 200000 Mandatory

Loop: HL Elements: N/A

User Option (Usage): Must use

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

Loop Summary:

Pos	<u>ld</u>	Segment Name	Req	Max Use	Repeat	<u>Usage</u>
010	HL	Hierarchical Level	M	1		Must use
110	TD1	Carrier Details (Quantity and Weight)	0	20		Used
120	TD5	Carrier Details (Routing Sequence/Transit Time)	0	12		Used
130	TD3	Carrier Details (Equipment)	0	12		Used
150	REF	Reference Identification	0	>1		Used
200	DTM	Date/Time Reference	0	10		Used
210	FOB	F.O.B. Related Instructions	0	1		Used
220		Loop N1	0		200	Used
010		Loop HL	M		200000	Must use

Example:

HL^1^S

TD1^CTN90^8

TD5^^2^ZCSU^M^CENTRAL STATES TRUCKING^CD

TD3^TL^DOLT^2398734223^^^^0012002348703719

REF^BM^ZPUD5498754

REF^IRN^Importer Ref Ltr of Credit

DTM^161^20070308

FOB^DF^KL^Saratoga, NY^^^PB^Naperville, IL

N1^ST^CRATE and BARREL^92^191

N1^SF^PANS FOR THE WORLD^92^999999

PER^IC^Joe in Shipping^TE^1-999-555-1212

N1^LG^PANS FOR THE WORLD

N3^1758 Mockingbird Lane^17th Ave west Hwy

N4^Northbrook^IL^60062^US

N1^MF^PANS R US

N3^1701 18th Street^Highview Terrace

N4^Northbrook^IL^60062^US

N1^MF^Bobs Pans

N3^1855 North Lake^Hwy 15

N4^Northbrook^IL^60062^US

N1^CS^Consolidators R US

N3^2101 Oak Street

N4^Northbrook^IL^60062^US

N1^ZZ^Freight Bookers R US

N3^2101 80th Street^Industrial Park

N4^Northbrook^IL^60062^US

HI Hierarchical Level

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

User Option (Usage): Must use

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

Element Summary:

Ref HL01	<u>ld</u> 628	Element Nar Hierarchical		Req M	Type AN	Min/Max 1/12	<u>Usage</u> Must use
		Description: a hierarchical	A unique number assigned by th I structure	e sende	r to ident	ify a particular	data segment in
HL02	734	Hierarchical	Parent ID Number	0	AN	1/12	Used
		•	Identification number of the next ng described is subordinate to	higher h	nierarchio	al data segme	ent that the data
HL03	735	Hierarchical	Level Code	М	ID	1/2	Must use
		Description:	Code defining the characteristic	of a leve	el in a hie	rarchical struc	ture
		<u>Code</u> S	Name Shipment				

Comments:

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

Example:

HL^1^\S

Used

TD1 Carrier Details (Quantity and Weight)

Pos: 110 Max: 20 Detail - Optional Loop: HL Elements: 2

User Option (Usage): Used

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

Element Summary:

Ref	<u>ld</u>	Element Name	Req	<u>Type</u>	Min/Max	<u>Usage</u>
TD101	103	Packaging Code	Ο	AN	3/5	Used

Description: Code identifying the type of packaging; Part 1: Packaging Form, Part 2: Packaging Material; if the Data Element is used, then Part 1 is always required

<u>Code</u>	<u>Name</u>
BAG90	Bag, Standard
BAL90	Bale, Standard
CRT90	Crate, Standard
CTN90	Carton, Standard
PLT90	Pallet, Standard
TRY90	Tray, Standard
WRP90	Wrapped, Standard

TD102 80 Lading Quantity X N0 1/7

Description: Number of units (pieces) of the lading commodity

Buyer Usage: Total Number of shipping units (e.g. cartons or bags) for the shipment.

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.

Buyer Usage:

Only one TD1 segment should be sent at the Shipment level.

Example:

There are eight cartons for this ASN:

TD1^CTN90^8

--- or ---

There are 10 bags (e.g. rugs) for this ASN: TD1^BAG90^10

Carrier Details (Routing TD5 Sequence/Transit Time)

Pos: 120 Max: 12 **Detail - Optional** Loop: HL Elements: 5

User Option (Usage): Used

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

Flement Summary:

_16111611	Juilli	ıııaı y.					
<u>Ref</u> TD502	<u>ld</u> 66	Element Notes Element Notes Element Notes Element Element	<u>Name</u> tion Code Qualifier	Req X	Type ID	Min/Max 1/2	<u>Usage</u> Used
		Description Code (67)	on: Code designating the system/	method of	code stru	cture used for	Identification
		Code 2	Name Standard Carrier Alpha Code	(SCAC)			
TD503	67	Identificat	tion Code	X	AN	2/80	Used
		Description	on: Code identifying a party or oth	ner code			
TD504	91	Transport	tation Method/Type Code	X	ID	1/2	Used
		Description	on: Code specifying the method of	r type of tra	ansportat	ion for the ship	ment
		<u>Code</u>	<u>Name</u>				
		Α	Air				
		M	Motor (Common Carrier)				
		_	_ ` ′				

Α	Air
М	Motor (Common Carrier)
0	Containerized Ocean
R	Rail
Т	Best Way (Shippers Option)
U	Private Parcel Service
AE	Air Express
LT	Less Than Trailer Load (LTL)

_) RR

Roadrailer

Description: Used for shipments that travel by roadrailer, i.e., a multimodal

rail/highway trailer

ZZ Mutually defined

TD505 387 Routing Χ ΑN 1/35 Used

Description: Free-form description of the routing or requested routing for shipment, or the

originating carrier's identity Buyer Usage: Carrier Name

TD506 368 **Shipment/Order Status Code** Х ID

Description: Code indicating the status of an order or shipment or the disposition of any

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

Code Name

CD Consolidated Freight

Buyer Usage:

Send this code if another company is going to place your product into the final container - it is going to be consolidated with other shipments. It is very important to notify us of this condition if it is an international shipment to the U.S. being made via an ocean vessel.

2/2

Used

Syntax Rules:

- 1. R0204050612 At least one of TD502, TD504, TD505, TD506 or TD512 is required.
- 2. C0203 If TD502 is present, then TD503 is required.
- 3. C0708 If TD507 is present, then TD508 is required.

- 4. C1011 If TD510 is present, then TD511 is required.
- 5. C1312 If TD513 is present, then TD512 is required.
- 6. C1413 If TD514 is present, then TD513 is required.
- 7. C1512 If TD515 is present, then TD512 is required.

Semantics:

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

Comments:

1. When specifying a routing sequence to be used for the shipment movement in lieu of specifying each carrier within the movement, use TD502 to identify the party responsible for defining the routing sequence, and use TD503 to identify the actual routing sequence, specified by the party identified in TD502.

Example:

TD5^^2^ZCSU^M^CENTRAL STATES TRUCKING^CD

TD3 Carrier Details (Equipment)

Pos: 130 Max: 12 Detail - Optional Loop: HL Elements: 4

User Option (Usage): Used

Purpose: To specify transportation details relating to the equipment used by the carrier

Element Summary:

<u>Ref</u> TD301	<u>ld</u> 40	Element Name Equipment Description Code		Type ID	Min/Max 2/2	<u>Usage</u> Used
		Description: Code identifying type of equipme	nt used	for shipn	nent	
		CodeNameAFAir Freight (Break Bulk)TLTrailer (not otherwise specified)VEVessel, Ocean				
TD302	206	Equipment Initial	0	AN	1/4	Used
		Description: Prefix or alphabetic part of an eq	uipment	unit's ide	entifying numbe	er
TD303	207	Equipment Number	Χ	AN	1/10	Used
		Description: Sequencing or serial part of an e form for equipment number is preferred)	quipme	nt unit's id	dentifying numb	per (pure numeric
TD309	225	Seal Number	0	AN	2/15	Used
		Description: Unique number on seal used to o	close a s	shipment		

Syntax Rules:

- 1. E0110 Only one of TD301 or TD310 may be present.
- 2. C0203 If TD302 is present, then TD303 is required.
- 3. C0405 If TD304 is present, then TD305 is required.
- 4. P0506 If either TD305 or TD306 is present, then the other is required.

Example:

TD3^TL^DOLT^2398734223^^^^012002348703719

REF Reference Identification

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

User Option (Usage): Used

Purpose: To specify identifying information

Element Summary:

RefIdElement NameReqTypeMin/MaxUsageREF01128Reference Identification QualifierMID2/3Must use

Description: Code qualifying the Reference Identification

Code Name

2I Tracking Number

Buyer Usage:

Any standard or proprietary carrier reference number other than the Bill of

Lading Number (use code BM) or the PRO number (use code CN).

BM Bill of Lading Number

Buyer Usage:

Bill of Lading Number is required by buyer.

CN Carrier's Reference Number (PRO/Invoice)

TF Transfer Number

IRN Importer's Reference Number to Letter of Credit

Description: Letter of credit reference number issued by buyer; cross-

references the bank's letter of credit number, once assigned

REF02 127 Reference Identification

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.

Buyer Usage:

Buyer requires REF segment with REF_01 = "BM". Others are optional.

Example:

REF^BM^ZPUD5498754 REF^IRN^SVB00IS

DTM Date/Time Reference

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

User Option (Usage): Used

Purpose: To specify pertinent dates and times

Element Summary:

 Ref
 Id
 Element Name
 Req
 Type
 Min/Max
 Usage

 DTM01
 374
 Date/Time Qualifier
 M
 ID
 3/3
 Must use

Description: Code specifying type of date or time, or both date and time

Code Name

161 Loaded on Vessel

Buyer Usage:

Date that goods are loaded at the Port of Loading or on a domestic truck.

DTM02 373 **Date** X DT 8/8 Used

Description: Date expressed as CCYYMMDD

Syntax Rules:

1. R020305 - At least one of DTM02, DTM03 or DTM05 is required.

2. C0403 - If DTM04 is present, then DTM03 is required.

3. P0506 - If either DTM05 or DTM06 is present, then the other is required.

Example:

DTM^161^20070308

FOB F.O.B. Related Instructions

Pos: 210 Max: 1
Detail - Optional
Loop: HL Elements: 5

User Option (Usage): Used

Purpose: To specify transportation instructions relating to shipment

Element Summary:

<u>ld</u>			Req	<u>Type</u>	Min/Max	<u>Usage</u>
146	Shipment M	lethod of Payment	М	ID	2/2	Must use
	Description	: Code identifying payment terms t	for trans	portation	charges	
	<u>Code</u> DF	Name Defined by Buyer and Seller				
309	Location Q	ualifier	Χ	ID	1/2	Used
	Description	: Code identifying type of location				
	<u>Code</u> KL	<u>Name</u> Port of Loading				
352	Description		0	AN	1/80	Used
	Description	: A free-form description to clarify	the relat	ed data	elements and t	heir content
309	Location Q	ualifier	Χ	ID	1/2	Used
	Description	: Code identifying type of location				
	<u>Code</u> PB	Name Port of Discharge Description: Port where shipme	ent is ur	nloaded		
352	Description		0	AN	1/80	Used
	Description	: A free-form description to clarify	the relat	ed data	elements and t	heir content
	309 352 309	146 Shipment N Description Code DF 309 Location Qu Description Code KL 352 Description Description Code PB 352 Description	146 Shipment Method of Payment Description: Code identifying payment terms Code DF Defined by Buyer and Seller 309 Location Qualifier Description: Code identifying type of location Code Name KL Port of Loading 352 Description Description: A free-form description to clarify Location Qualifier Description: Code identifying type of location Code Name PB Port of Discharge Description: Port where shipmed 352 Description	146 Shipment Method of Payment M Description: Code identifying payment terms for trans Code Name DF Defined by Buyer and Seller 309 Location Qualifier X Description: Code identifying type of location Code Name KL Port of Loading 352 Description: A free-form description to clarify the related to the second seco	146 Shipment Method of Payment M ID Description: Code identifying payment terms for transportation Code Name DF Defined by Buyer and Seller 309 Location Qualifier X ID Description: Code identifying type of location Code Name KL Port of Loading 352 Description: A free-form description to clarify the related data of the description: Code identifying type of location Description: Code identifying type of location Code Name Description: Code identifying type of location Code Name PB Port of Discharge Description: Port where shipment is unloaded 352 Description O AN	Description: Code identifying payment terms for transportation charges Code Name DF Defined by Buyer and Seller 309 Location Qualifier X ID 1/2 Description: Code identifying type of location Code Name KL Port of Loading 352 Description: A free-form description to clarify the related data elements and to the companient of the code identifying type of location Description: Code identifying type of location Code Name PB Port of Discharge Description: Port where shipment is unloaded

Syntax Rules:

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

Semantics:

- 1. FOB01 indicates which party will pay the carrier.
- 2. FOB02 is the code specifying transportation responsibility location.
- 3. FOB06 is the code specifying the title passage location.
- 4. FOB08 is the code specifying the point at which the risk of loss transfers. This may be different than the location specified in FOB02/FOB03 and FOB06/FOB07.

Example:

International Shipment Example:

FOB^DF^KL^HAMBURG, GERMANY^^^PB^New Jersey, NJ

Domestic Shipment Example:

FOB^DF^KL^Saratoga, NY^^^PB^Naperville, IL

Loop Name

Pos: 220 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	Req	Max Use	Repeat	<u>Usage</u>
220	N1	Name	0	1		Used
240	N3	Address Information	0	2		Used
250	N4	Geographic Location	0	1		Used
270	PER	Administrative Communications Contact	0	3		Used

Example:

N1^ST^CRATE and BARREL^92^191

N1^SF^PANS FOR THE WORLD^92^999999

PER^IC^Joe in Shipping^TE^1-999-555-1212

N1^LG^PANS FOR THE WORLD

N3^1758 Mockingbird Lane^17th Ave west Hwy

N4^Northbrook^IL^60062^US

N1^MF^PANS R US

N3^1701 18th Street^Highview Terrace

N4^Northbrook^IL^60062^US

N1^MF^Bobs Pans

N3^1855 North Lake^Hwy 15

N4^Northbrook^IL^60062^US

N1^CS^Consolidators R US

N3^2101 Oak Street

N4^Northbrook^IL^60062^US

N1^ZZ^Freight Bookers R US

N3^2101 80th Street^Industrial Park

N4^Northbrook^IL^60062^US

N1 Name

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

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	Element Nar Entity Identi		Req M	Type ID	Min/Max 2/3	<u>Usage</u> Must use		
		Description : individual	: Code identifying an organizational entity, a physical location, property or an						
		<u>Code</u> CS	Name Consolidator						
			Buyer Usage: This is the name and address of the consolidator of your shipment.						
		LG	Location of Goods Buyer Usage: "LG" is required for all shipment Shipment (Air shipments are eximation). This should include the name of	kcluded	as well as	s truck or rail fro	om Canada or		
			where the container was loaded company/location.	d. This	could be	either your facto	ory or another		
		MF	Manufacturer of Goods Buyer Usage: This would be the name and address of who the final manufacturer of product is.						
		SF ST ZZ	Ship From Ship To Mutually Defined Buyer Usage:						
			Used to define the name and a and address of who booked the				ompany name		
N102	93	Name		Х	AN	1/60	Used		
		Description	: Free-form name						
N103	66	Identificatio	n Code Qualifier	X	ID	1/2	Used		
		Description: Code (67)	: Code designating the system/me	thod of	code strud	cture used for lo	dentification		
		<u>Code</u> 92	Name Assigned by Buyer or Buyer's Ag	jent					
N104	67	Identificatio	n Code	Χ	AN	2/80	Used		
Description: Code identifying a party or other code Buyer Usage: When N1_01 = ST the buyer's warehouse number is sent in N1_04. This must match N1_04 from the original PO 850 where N1_01 = "ST" within the N1 310)) When N1_01 = SF the suppliers internal code for the ship from location is sent in N1_01.					e N1 loop (Pos:				
		0			J		• . •		

Syntax Rules:

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

Comments:

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

Example:

N1^ST^CRATE and BARREL^92^191 N1^SF^PANS FOR THE WORLD^92^999999 N1^MF^PANS R US N3^1701 18th Street^Highview Terrace N4^Northbrook^IL^60062^US N1^MF^Bobs Pans N3^1855 North Lake^Hwy 15 N4^Northbrook^IL^60062^US

We only expect one entry for the ST (Ship To) and SF (Ship From).

There can be multiple addresses for the other types.

For example:

You should send all manufactures for the products being shipped. If you are sending two items and they are manufactured by two different companies then we would expect two MF entries.

The Manufacturer is the most likely party type to have multiple entries but the others are set up to handle this scenario if it is needed.

N3 Address Information

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

User Option (Usage): Used

Purpose: To specify the location of the named party

Element Summary:

 Ref
 Id
 Element Name
 Req
 Type
 Min/Max
 Usage

 N301
 166
 Address Information
 M
 AN
 1/55
 Must use

Description: Address information

Buyer Usage: Only the First 30 characters should be used - any characters after that will be

ignored.

N302 166 Address Information O AN 1/55 Used

Description: Address information

Buyer Usage: Only the First 30 characters should be used - any characters after that will be

ignored.

Example:

N1^MF^PANS R US N3^1701 18th Street^Highview Terrace N4^Northbrook^IL^60062^US N1^MF^Bobs Pans N3^1855 North Lake^Hwy 15 N4^Northbrook^IL^60062^US

N4 Geographic Location

Pos: 250 Max: 1 Detail - Optional Loop: N1 Elements: 4

User Option (Usage): Used

Purpose: To specify the geographic place of the named party

Element Summary:

Ref	<u>ld</u>	Element Name	Req	Type	Min/Max	<u>Usage</u>
N401	19	City Name	0	AN	2/30	Used
		Description: Free-form text for city name				
		Buyer Usage: Only the first 35 characters sho ignored.	uld be ι	used - an	y characters aft	er 35 will be
N402	156	State or Province Code	0	ID	2/2	Used
		Description: Code (Standard State/Province)	as defin	ed by ap	propriate gover	nment agency
		Buyer Usage:				
		This should either be a US state code or Coun	try Sub-	Entity co	de. Valid value	es are found at:
		http://www.unece.org/cefact/locode/service/sui	blocat.h	tm		
		Only 2 characters for a Country Sub-Entity coccode is 3 characters.	de can b	e sent. L	eave blank if y	our sub-country
N403	116	Postal Code	0	ID	3/15	Used
		Description: Code defining international posta (zip code for United States)	al zone d	code excl	uding punctuati	ion and blanks
N404	26	Country Code	0	ID	2/3	Used
		Description: Code identifying the country				
		Buyer Usage: The international Standards On	ganizati	on (ISO)	2 alpha country	code.

Syntax Rules:

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

Comments:

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

Example:

N1^MF^PANS R US N3^1701 18th Street^Highview Terrace N4^Northbrook^IL^60062^US N1^MF^Bobs Pans N3^1855 North Lake^Hwy 15 N4^Northbrook^IL^60062^US

PER Administrative Communications Contact

Pos: 270 Max: 3 Detail - Optional Loop: N1 Elements: 8

User Option (Usage): Used

Purpose: To identify a person or office to whom administrative communications should be directed

Element Summary:

<u>Ref</u> PER01	<u>ld</u> 366	Element Na Contact Fu	<u>me</u> nction Code	Req M	Type ID	Min/Max 2/2	<u>Usage</u> Must use	
		Description: Code identifying the major duty or responsibility of the person or group named						
		<u>Code</u> IC	Name Information Contact					
PER02	93	Name		0	AN	1/60	Used	
		Description	: Free-form name					
PER03	365	Communic	ation Number Qualifier	Χ	ID	2/2	Used	
		Description: Code identifying the type of communication number						
		<u>Code</u> EM FX TE	Name Electronic Mail Facsimile Telephone					
PER04	364	Communic	ation Number	Χ	AN	1/80	Used	
		Description applicable	: Complete communications num	ber includ	ding cour	ntry or area coo	de when	
PER05	365	Communic	ation Number Qualifier	Χ	ID	2/2	Used	
		Description: Code identifying the type of communication number						
		<u>Code</u> EM FX TE	Name Electronic Mail Facsimile Telephone					
PER06	364	Communic	ation Number	Χ	AN	1/80	Used	
		Description applicable	: Complete communications num	ber includ	ding cour	ntry or area coo	de when	
PER07	365	Communic	ation Number Qualifier	Χ	ID	2/2	Used	
		Description: Code identifying the type of communication number						
		<u>Code</u> EM FX TE	Name Electronic Mail Facsimile Telephone					
PER08	364	Communic	ation Number	Χ	AN	1/80	Used	
		Description applicable	: Complete communications num	ber includ	ding cour	ntry or area coo	de when	

Syntax Rules:

- 1. P0304 If either PER03 or PER04 is present, then the other is required.
- 2. P0506 If either PER05 or PER06 is present, then the other is required.

3. P0708 - If either PER07 or PER08 is present, then the other is required.

Buyer Usage:

Shipping Department contact is advised when N101 = "SF" and Not Used when N101 = "ST".

Example:

PER^IC^Joe in Shipping^TE^1-999-555-1212

Loop Hierarchical Level

Pos: 010 Repeat: 2000000 Mandatory

Loop: HL Elements: N/A

User Option (Usage): Must use

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

Loop Summary:

<u>Pos</u>	<u>ld</u>	Segment Name	Req	Max Use	Repeat	<u>Usage</u>
010	HL	Hierarchical Level	M	1		Must use
050	PRF	Purchase Order Reference	0	1		Used
150	REF	Reference Identification	M	>1		Must use
010		Loop HL	M		200000	Must use

Example:

HL^2^1^O PRF^2414657 REF^IA^999999

HI Hierarchical Level

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

User Option (Usage): Must use

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

Element Summary:

<u>Ref</u> HL01	<u>ld</u> 628	Element Name Hierarchical ID Number	Req M	Type AN	Min/Max 1/12	<u>Usage</u> Must use
		Description: A unique number assigned by the a hierarchical structure	ne sende	r to ident	ify 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	t higher h	nierarchio	al data segme	ent that the data
HL03	735	Hierarchical Level Code	М	ID	1/2	Must use
		Description: Code defining the characteristic	of a leve	el in a hie	rarchical struc	ture
		Code Name O Order				

Comments:

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

Example:

HL^2^1^0

PRF Purchase Order Reference

Pos: 050 Max: 1 Detail - Optional Loop: HL Elements: 1

User Option (Usage): Used

Purpose: To provide reference to a specific purchase order

Element Summary:

RefIdElement NameReqTypeMin/MaxUsagePRF01324Purchase Order NumberMAN1/22Must use

Description: Identifying number for Purchase Order assigned by the orderer/purchaser

Buyer Usage: Must match BEG03 of corresponding 850 Purchase Order

Semantics:

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

Example:

PRF^8884657

REF Reference Identification

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

User Option (Usage): Must use

Purpose: To specify identifying information

Element Summary:

Ref	<u>ld</u>	Element Name	<u>Req</u>	<u>Type</u>	Min/Max	<u>Usage</u>
REF01	128	Reference Identification Qualifier	М	ID	2/3	Must use

Description: Code qualifying the Reference Identification

Code Name

IA Internal Vendor Number

REF02 127 Reference Identification M AN 1/30 Must use

Description: Reference information as defined for a particular Transaction Set or as specified

by the Reference Identification Qualifier

Syntax Rules:

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

Semantics:

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

Example:

Buyer requires this be sent. It must match what was sent in the original 850 transaction element REF_02 where REF_01 = "IA"

REF^IA^1234567

Loop Hierarchical Level

Pos: 010 Repeat: 2000000 Mandatory

Loop: HL Elements: N/A

User Option (Usage): Must use

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

Loop Summary:

<u>Pos</u>	<u>ld</u>	Segment Name	Req	Max Use	Repeat	<u>Usage</u>
010	HL	Hierarchical Level	M	1		Must use
020	LIN	Item Identification	0	1		Must use
030	SN1	Item Detail (Shipment)	0	1		Used
110	TD1	Carrier Details (Quantity and Weight)	0	20		Used
120	TD5	Carrier Details (Routing Sequence/Transit Time)	0	12		Used
200	DTM	Date/Time Reference	0	10		Must use
010		Loop HL	M		200000	Must use

Example:

HL^3^2^I LIN^^PL^1^IN^576050 SN1^805^EA TD1^CTN90^8^^^G^2500^LB TD1^CTN90^8^^^N^2220^LB TD1^PLT90^2 TD5^^^CC DTM^068^20070305

HL Hierarchical Level

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

User Option (Usage): Must use

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

Element Summary:

<u>Ref</u> HL01	<u>ld</u> 628	Element Name Hierarchical ID Number	Req M	Type AN	Min/Max 1/12	<u>Usage</u> Must use		
		Description: A unique number assigned by the a hierarchical structure	ne sende	r to ident	ify 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	al data segme	ent that the data		
HL03	735	Hierarchical Level Code	М	ID	1/2	Must use		
		Description: Code defining the characteristic of a level in a hierarchical structure						
		Code Name						

Comments:

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

Example:

HL^3^2^I

LIN Item Identification

Pos: 020 Max: 1 Detail - Optional Loop: HL Elements: 6

User Option (Usage): Must use

Purpose: To specify basic item identification data

Element Summary:

 Ref
 Id
 Element Name
 Req
 Type
 Min/Max
 Usage

 LIN02
 235
 Product/Service ID Qualifier
 M
 ID
 2/2
 Must use

Description: Code identifying the type/source of the descriptive number used in

Product/Service ID (234)

Code Name

PL Purchaser's Order Line Number

Buyer Usage:

Original PO Line Item Number required by Buyer. Must match PO1_01 from

850.

LIN03 234 Product/Service ID M AN 1/48 Must use

Description: Identifying number for a product or service

LIN04 235 Product/Service ID Qualifier X ID 2/2 Must use

Description: Code identifying the type/source of the descriptive number used in

Product/Service ID (234)

Code Name

IN Buyer's Item Number

Buyer Usage:

6 digit SKU number

LIN05 234 Product/Service ID X AN 1/48 Must use

Description: Identifying number for a product or service

LIN06 235 Product/Service ID Qualifier X ID 2/2 Used

Description: Code identifying the type/source of the descriptive number used in

Product/Service ID (234)

Code Name

VN Vendor's (Seller's) Item Number

LIN07 234 Product/Service ID X AN 1/48 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.

8. P1819 - If either LIN18 or LIN19 is present, then the other is required.

9. P2021 - If either LIN20 or LIN21 is present, then the other is required.

10. P2223 - If either LIN22 or LIN23 is present, then the other is required.

11. P2425 - If either LIN24 or LIN25 is present, then the other is required.

12. P2627 - If either LIN26 or LIN27 is present, then the other is required.

- 13. P2829 If either LIN28 or LIN29 is present, then the other is required.
- 14. P3031 If either LIN30 or LIN31 is present, then the other is required.

Semantics:

1. LIN01 is the line item identification

Comments:

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

Example:

LIN^^PL^1^IN^576050^VN^7618-AZ

SN1 Item Detail (Shipment)

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

User Option (Usage): Used

Purpose: To specify line-item detail relative to shipment

Element Summary:

Ref SN102	<u>ld</u> 382	Element Name Number of Units Shipped	Req M	<u>Type</u> R	Min/Max 1/10	<u>Usage</u> Must use
SN 102	302	Number of Offics Shipped	IVI	K	1/10	wust use
		Description: Numeric value of units shipped in transaction set	n manuf	acturer's	shipping units t	for a line item or
SN103	355	Unit or Basis for Measurement Code	М	ID	2/2	Must use
	Description: Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken					
		Code Name				

Syntax Rules:

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

Each

Semantics:

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

EΑ

Comments:

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

Example:

SN1^^805^EA

TD1 Carrier Details (Quantity and Weight)

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

User Option (Usage): Used

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

Element Summary:

Eiemeni	Sumr	nary:						
<u>Ref</u> TD101	<u>ld</u> 103	Element National Packaging (Req O	Type AN	Min/Max 3/5	<u>Usage</u> Used	
			: Code identifying the type of pack laterial; if the Data Element is use	kaging; Part 1: Packaging Form, Part 2: ed, then Part 1 is always required				
		Code BAG90 BAL90 CRT90 CTN90 PLT90 TRY90 WRP90	Name Bag, Standard Bale, Standard Crate, Standard Carton, Standard Pallet, Standard Tray, Standard Wrapped, Standard					
TD102	80	Lading Qua	ntity	Χ	N0	1/7	Used	
		Description: Number of units (pieces) of the lading commodity						
TD106	187	Weight Qua	lifier	0	ID	1/2	Used	
		Description	: Code defining the type of weight					
		<u>Code</u> G N	Name Gross Weight Actual Net Weight					
TD107	81	Weight		Χ	R	1/10	Used	
		Description	: Numeric value of weight					
TD108	355	Unit or Basi	s for Measurement Code	Χ	ID	2/2	Used	
		Description: Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken					manner in	
		<u>Code</u> KG	<u>Name</u> Kilogram					

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.

Pound

5. P0910 - If either TD109 or TD110 is present, then the other is required.

Buyer Usage:

TD1 segment can occur up to 3 times.

LB

Buyer requires both Gross and Net weight. For the non-pallet shipping unit (e.g. carton, bag, etc.), send one occurrence with TD106 = "G" and the second with TD106 = "N". Weight Unit of Measure must be the same for both.

If applicable, a third TD1 segment may be sent to report the number of pallets (TD101 = "PLT90"); weight is not reported on this occurrence.

Example:

TD1^CTN90^9^^^G^2500^LB TD1^CTN90^9^^^N^2220^LB

TD5 Carrier Details (Routing Sequence/Transit Time)

Pos: 120 Max: 12 Detail - Optional Loop: HL Elements: 1

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>
TD506	368	Shipment/Order Status Code	X	ID	2/2	Used

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

Code Name

CC Shipment Complete on (Date)

Buyer Usage:

Indicates final shipment for Line Item.

Syntax Rules:

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

Semantics:

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

Comments:

1. When specifying a routing sequence to be used for the shipment movement in lieu of specifying each carrier within the movement, use TD502 to identify the party responsible for defining the routing sequence, and use TD503 to identify the actual routing sequence, specified by the party identified in TD502.

Buyer Usage:

Only send segment if TD5_06 = "CC".

This segment will indicate final shipment for Line Item.

Example:

TD5^^^^CC

DTM Date/Time Reference

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

User Option (Usage): Must use

Purpose: To specify pertinent dates and times

Element Summary:

 Ref
 Id
 Element Name
 Req
 Type
 Min/Max
 Usage

 DTM01
 374
 Date/Time Qualifier
 M
 ID
 3/3
 Must use

Description: Code specifying type of date or time, or both date and time

Code Name

068 Current Schedule Ship

Buyer Usage:

Required by buyer. Current scheduled shipment date from the most recent

purchase order acknowledgment.

DTM02 373 Date X DT 8/8 Must use

Description: Date expressed as CCYYMMDD

Syntax Rules:

1. R020305 - At least one of DTM02, DTM03 or DTM05 is required.

2. C0403 - If DTM04 is present, then DTM03 is required.

3. P0506 - If either DTM05 or DTM06 is present, then the other is required.

Buyer Usage:

A DTM segment with the most recent PO acknowledgment date is required by the buyer.

Example:

DTM^068^20070305

Loop Hierarchical Level

Pos: 010 Repeat: 200000

Mandatory Loop: HL Elements: N/A

User Option (Usage): Must use

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

Loop Summary:

<u>Pos</u>	<u>ld</u>	Segment Name	Req	Max Use	Repeat	<u>Usage</u>
010	HL	Hierarchical Level	M	1		Must use
060	PO4	Item Physical Details	0	1		Used
190	MAN	Marks and Numbers	0	>1		Used

Example:

This depicts a range of cartons/containers on a pallet:

HL^4^3^P

PO4^100

MAN^W^0000074860075232455

MAN^GM^00000340860075232495^00000340860075232557

OR

Individual carton/containers on a pallet

HL^4^3^P PO4^100

MAN^W^000074860075232455

MAN^GM^00000340860075322495

MAN^GM^00000340860075322502

MAN^GM^00000340860075322546

MAN^GM^00000340860075332557

HI Hierarchical Level

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

User Option (Usage): Must use

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

Element Summary:

Ref HL01	<u>ld</u> 628	Element Name Hierarchical ID Number	Req M	Type AN	Min/Max 1/12	<u>Usage</u> Must use
		Description: A unique number assigned by th a hierarchical structure	e sende	r to ident	ify 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	al data segme	nt that the data
HL03	735	Hierarchical Level Code	М	ID	1/2	Must use
		Description: Code defining the characteristic	of a leve	l in a hie	rarchical struct	ture
		Code Name P Pack				

Comments:

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

Example:

HL^4^3^P

PO4 Item Physical Details

Pos: 060 Max: 1
Detail - Optional
Loop: HL Elements: 1

User Option (Usage): Used

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

Element Summary:

<u>Ref</u>	<u>ld</u>	Element Name	Req	<u>Type</u>	Min/Max	<u>Usage</u>
PO401	356	Pack	0	N0	1/6	Used

Description: The number of inner containers, or number of eaches if there are no inner

containers, per outer container

Buyer Usage: Quantity per carton/container and applies to all containers referenced in the

following MAN segment(s) for this pack level.

If a container is sent with a different container quantity, a new Pack level should be created.

Syntax Rules:

- 1. P0203 If either PO402 or PO403 is present, then the other is required.
- 2. C0506 If PO405 is present, then PO406 is required.
- 3. P0607 If either PO406 or PO407 is present, then the other is required.
- 4. P0809 If either PO408 or PO409 is present, then the other is required.
- 5. C1013 If PO410 is present, then PO413 is required.
- 6. C1113 If PO411 is present, then PO413 is required.
- 7. C1213 If PO412 is present, then PO413 is required.
- 8. L13101112 If PO413 is present, then at least one of PO410, PO411 or PO412 is required.
- 9. C1716 If PO417 is present, then PO416 is required.
- 10. C1804 If PO418 is present, then PO404 is required.

Semantics:

- 1. PO415 is used to indicate the relative layer of this package or range of packages within the layers of packaging. Relative Position 1 (value R1) is the innermost package.
- 2. PO416 is the package identifier or the beginning package identifier in a range of identifiers.
- 3. PO417 is the ending package identifier in a range of identifiers.
- 4. PO418 is the number of packages in this layer.

Comments:

- 1. PO403 The "Unit or Basis for Measure Code" in this segment position is for purposes of defining the 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.

Example:

PO4^100

MAN Marks and Numbers

Pos: 190 Max: >1 Detail - Optional Loop: HL Elements: 3

User Option (Usage): Used

Purpose: To indicate identifying marks and numbers for shipping containers

Element Summary:

RefIdElement NameReqTypeMin/MaxUsageMAN0188Marks and Numbers QualifierMID1/2Must use

Description: Code specifying the application or source of Marks and Numbers (87)

Code Name

W Pallet Number

Buyer Usage:

If carton/containers are palletized:

UCC/EAN-128 Serial Shipping Container

Code (SSCC-18) for the pallet

GM SSCC-18 and Application Identifier

Buyer Usage:

UCC/EAN-128 Serial Shipping Container Code (SSCC-18) for each carton/container.

MAN02 87 Marks and Numbers M AN 1/48 Must use

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

MAN03 87 Marks and Numbers O AN 1/48 Used

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

Syntax Rules:

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

Semantics:

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

Comments:

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

Example:

This depicts a range of cartons/containers on a pallet:

MAN^W^01100014480000001656 MAN^GM^00000340860075232455^00000340860075232488 This depicts two cartons/containers that are not palletized:

MAN^GM^00000340860075322495 MAN^GM^00000340860075322502

CTT Transaction Totals

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

User Option (Usage): Used

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

Element Summary:

Ref	<u>ld</u>	Element Name	Req	<u>Type</u>	Min/Max	<u>Usage</u>
CTT01	354	Number of Line Items	M	N0	1/6	Must use

Description: Total number of line items in the transaction set **Buyer Usage:** *Total number of HL Segments in Transaction Set.*

Syntax Rules:

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

Comments:

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

Example:

CTT^5

SE Transaction Set Trailer

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

User Option (Usage): Must use

Purpose: To indicate the end of the transaction set and provide the count of the transmitted segments (including the beginning (ST) and ending (SE) segments)

Element Summary:

Ref	<u>ld</u>	Element Name	Req	Type	Min/Max	<u>Usage</u>
SE01	96	Number of Included Segments	М	N0	1/10	Must use
		Description: Total number of segments includ segments	led in a	transactio	on set including	g ST and SE
SE02	329	Transaction Set Control Number	М	AN	4/9	Must use
		Description: Identifying control number that m functional group assigned by the originator for		•		ction set

Comments:

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

Example:

SE^35^1234

GE Functional Group Trailer

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

User Option (Usage): Must use

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

Element Summary:

Ref	<u>ld</u>	Element Name	Req	Type	Min/Max	<u>Usage</u>
GE01	97	Number of Transaction Sets Included	М	N0	1/6	Must use
		Description: Total number of transaction set (transmission) group terminated by the trailer			0 1	or interchange
GE02	28	Group Control Number	М	N0	1/9	Must use
		Description: Assigned number originated an	d maintai	ined by th	ne sender	

Semantics:

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

Comments:

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

Example:

GE^1^101

IEA Interchange Control Trailer

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

User Option (Usage): Must use

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

Element Summary:

Ref	<u>ld</u>	Element Name	Req	<u>Type</u>	Min/Max	<u>Usage</u>		
IEA01	I16	Number of Included Functional Groups	М	N0	1/5	Must use		
		Description: A count of the number of function	nal grou	ps includ	ed in an intercl	hange		
IEA02	l12	Interchange Control Number	М	N0	9/9	Must use		
		Description: A control number assigned by the interchange sender						

Example:

IEA^1^000000310

Example to Demonstrate SOIP Structure Capabilities

Please refer to your Vendor Operations Guide for up to date shipping requirments.

This example depicts 1 pallet with 8 cartons of SKU 576-050.

All together there are 805 pieces being shipped:

7 cartons each have 100 pieces

-- and --

1 carton has 105 pieces

HL^1^^S

TD1^CTN90^8

TD5^^2^ZCSU^M^CENTRAL STATES TRUCKING

TD3^TL^DOLT^2398734223^^^^0012002348703719

REF^BM^ZPUD5498754

REF^IRN^Importer Ref Ltr of Credit

DTM^161^20070308

FOB^DF^KL^Saratoga, NY^^^PB^Naperville, IL

N1^ST^CRATE and BARREL^92^191

N1^SF^PANS FOR THE WORLD^92^999999

N1^LG^PANS FOR THE WORLD

N3^1758 Mockingbird Lane^17th Ave west Hwy

N4^Northbrook^IL^60062^US

N1^MF^PANS R US

N3^1701 18th Street^Highview Terrace

N4^Northbrook^IL^60062^US

N1^MF^Bobs pans

N3^1855 North Lake^Hwy 15

N4^Northbrook/IL^60062^US

N1^CS^Consolidators R US

N3^2101 Oak Street

N4^Northbrook^IL^60062^US

N1^ZZ^Freight Bookers R US

N3^2101 80th Street^Industrial Park

N4^Northbrook/IL^60062^US

PER^IC^Joe in Shipping^TE^1-999-555-1212

N1^ST^CRATE and BARREL^92^499

HL^2^1^O

PRF^2414657

REF^IA^999999

HL^3^2^I

LIN^^PL^1^IN^576050

SN1^^805^EA

TD1^CTN90^8^^^G^2500^LB

TD1^CTN90^8^^^N^2220^LB

TD5^^^^CC

DTM^068^20070305

HL^4^3^P

PO4^100

MAN^W^000074860075232455

MAN^GM^00000340860075232455

MAN^GM^00000340860075232466

MAN^GM^00000340860075232477

MAN^GM^00000340860075232488

MAN^GM^00000340860075322495

MAN^GM^00000340860075322502

MAN^GM^00000340860074989057

HL^5^3^P

PO4^105

MAN^W^000074860075232455

MAN^GM^00000340860074989046

Pallet *55 with 8 Cartons of SKU 576-050

7 of the 8 Cartons have 100 pieces of 576-050 in each carton. The 8^{th} carton has 105 pieces.

All cartons combined have a gross weight of 2,500 lbs. All cartons combined have a net weight of 2,220 lbs.

