# 856 Ship Notice/Manifest

X12/V4010/856: 856 Ship Notice/Manifest

## Version: 1.5 Final

Author: Company: Notes: Global Exchange Services Crate & Barrel Shipment-Order-Item-Pack Structure FINAL APPROVED 03-16-2009

# 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:

neading								
<u>Pos</u>	<u>ld</u>	Segment Name	<u>Req</u>	Max Use	<u>Repeat</u>	<u>Notes</u>	<u>Usage</u>	Page
	ISA	Interchange Control Header	М	1			Must use	10
	GS	Functional Group Header	Μ	1			Must use	12
010	ST	Transaction Set Header	Μ	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:								
Pos	ld	Segment Name	Req	Max Use	Repeat	<u>Notes</u>	<u>Usage</u>	Page
LOOP ID	<u>- HL</u>		_		<u>200000</u>	<u>C2/010L</u>	<u> </u>	17
010	HL	Hierarchical Level	Μ	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

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N/A

* 153	LH2	Hazardous Classification	0	4				
* 154	LH3	Hazardous Material	0	12				
* 155	LFH	Shipping Name Freeform Hazardous	0	20				
* 450		Material Information	0	4				
* 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				
* LOOP I	D - CLD	· · ·		•	200			
* 170	CLD	Load Detail	Ō	1		-	-	
* 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	0	10			Used	
210	FOB	F.O.B. Related Instructions	0	1			Used	
* 215	PAL	Pallet Information	0	1				
LOOP ID					200	•		
220	N1	Name	ō	1	<u> </u>	-	Used	
* 230	N2	Additional Name Information	0	2			0000	
240	N3	Address Information	0	2			Used	
240 250	N3 N4		0	2 1			Used	
* 260	REF	Geographic Location		12			Useu	
		Reference Identification Administrative	0 0	3			Llood	
270	PER	Communications Contact	0	3			Used	
* 280	FOB	F.O.B. Related	0	1				
* 290	SDQ	Instructions Destination Quantity	0	50				
* 300	ETD	Excess Transportation	0	50 1				
		Detail						
<u>* 310</u>		Currency	0	. 1				
* LOOP I			-	-	<u>&gt;1</u>	-	_	
* 320	SAC	Service, Promotion, Allowance, or Charge Information	0	1				
* 325	CUR	Currency	0	1				
* 330	GF	Furnished Goods and Services	0	1				
* 335	YNQ	Yes/No Question	0	10				
* LOOP I				•	10	·		
* 340	LM	Code Source Information	Ō	1		-	_	
* 350	LQ	Industry Code	М	100				
* LOOP I					_1			
LUUPI	U - V1		-	-	<u>&gt;1</u>	-	-	

<ul> <li>* 360 V1 Vessel Identification O 1</li> <li>* 370 R4 Port or Terminal O &gt; 1</li> <li>* 380 DTM Date/Time Reference O &gt; 1</li> <li>IOOP ID - HL</li> <li>IOOP ID - HL</li> <li>IOOP ID - HL</li> <li>IOO HL Hierarchical Level M 1</li> <li>C2/010 Must use</li> <li>* 020 LIN Item Identification O 1</li> <li>* 030 SN1 Item Detail (Shipment) O 1</li> <li>* 040 SLN Subline Item Detail O 1000</li> <li>050 PRF Purchase Order O 1</li> <li>Used Reference</li> <li>* 060 PO4 Item Physical Details O 1</li> <li>* 070 PID Product/Item Description O 200</li> <li>* 080 MEA Measurements O 40</li> <li>* 090 PWK Paperwork O 25</li> <li>* 100 PKG Marking, Packaging, O 25</li> <li>* 100 PKG Marking, Packaging, O 25</li> <li>* 100 PKG Marking, Packaging, O 12</li> <li>Sequence/Transit Time)</li> <li>* 130 TD3 Carrier Details (Quantity O 10</li> <li>* 140 TD4 Carrier Details (Special O 5</li> <li>Handling, or Hazardous Materials, or Both)</li> <li>* 145 TSD Trailer Shipment Details O 1</li> <li>* 150 PEF Administrative O 3</li> <li>Communications Contact</li> <li>* LOOP ID - LH1</li> <li>* 140 TLH Hazardous Identification O 1</li> </ul>
* 380       DTM       Date/Time Reference       O       >1         LOOP ID - HL       200000       C2/010L         010       HL       Hierarchical Level       M       1       C2/010       Must use         * 020       LIN       Item Identification       O       1       C2/010       Must use         * 020       LIN       Item Identification       O       1       C2/010       Must use         * 020       LIN       Item Identification       O       1       C2/010       Must use         * 040       SLN       Subline Item Detail       O       1000       050       PRF       Purchase Order       O       1       Used         050       PRF       Purchase Order       O       1       Used       Reference         * 060       PO4       Item Physical Details       O       10       Used       10         * 070       PID       Produc/Item Description       O       200       10       10         * 080       MEA       Measurements       O       40       25       100       Exerce Details (Quantity       0       20       11       10       Carrier Details (Routing       0       12       130 <td< td=""></td<>
LOOP ID - HL       200000       C2/010L         010       HL       Hierarchical Level       M       1       C2/010       Must use         * 020       LIN       Item Identification       O       1       C2/010       Must use         * 030       SN1       Item Detail (Shipment)       O       1       C2/010       Must use         * 040       SLN       Subline Item Detail       O       1000       050       PRF       Purchase Order       O       1       Used         * 060       PO4       Item Physical Details       O       1       Used       Reference         * 060       PO4       Item Physical Details       O       1       Used       Network         * 070       PID       Product/Item Description       O       200           * 080       MEA       Measurements       O       40            * 090       PWK       Papervork       O       25            100       PKG       Marking, Packaging, Loading       O       12            * 110       TD1       Carrier Details (Routing       O       12 <td< td=""></td<>
010       HL       Hierarchical Level       M       1       C2/010       Must use         * 020       LIN       Item Identification       O       1         * 030       SN1       Item Detail (Shipment)       O       1         * 040       SLN       Subline Item Detail       O       1000         050       PRF       Purchase Order       O       1       Used         * 060       PO4       Item Physical Details       O       1       Used         * 060       PO4       Item Physical Details       O       1       Used         * 070       PID       Product/Item Description       O       200          * 080       MEA       Measurements       O       40          * 090       PWK       Paperwork       O       25          Loading        20       and Weight)       20          * 110       TD1       Carrier Details (Quantity O       20          * 120       TD5       Carrier Details       O       12         * 130       TD3       Carrier Details       O       12         (Equipment)        12
<ul> <li>* 020 LIN Item Identification O 1</li> <li>* 030 SN1 Item Detail (Shipment) O 1</li> <li>* 040 SLN Subline Item Detail O 1000</li> <li>050 PRF Purchase Order O 1</li> <li>* 060 PO4 Item Physical Details O 1</li> <li>* 070 PID Product/Item Description O 200</li> <li>* 080 MEA Measurements O 40</li> <li>* 090 PWK Paperwork O 25</li> <li>* 100 PKG Marking, Packaging, O 25</li> <li>* 100 PKG Marking, Packaging, O 25</li> <li>* 101 TD1 Carrier Details (Quantity O 20 and Weight)</li> <li>* 112 TD5 Carrier Details (Routing O 12 Sequence/Transit Time)</li> <li>* 130 TD3 Carrier Details O 12 (Equipment)</li> <li>* 140 TD4 Carrier Details (Special O 5 Handling, or Hazardous Materials, or Both)</li> <li>* 145 TSD Trailer Shipment Details O 1</li> <li>* 145 TSD Trailer Shipment Details O 1</li> <li>* 150 REF Reference Identification M &gt;1 Must use</li> <li>* 151 PER Administrative O 3</li> <li>Communications Contact</li> </ul>
* 030       SN1       Item Detail (Shipment)       0       1         * 040       SLN       Subline Item Detail       0       1000         050       PRF       Purchase Order Reference       0       1       Used         * 060       PO4       Item Physical Details       0       1          * 070       PID       Product/Item Description       0       200         * 080       MEA       Measurements       0       40         * 090       PWK       Paperwork       0       25         * 100       PKG       Marking, Packaging, Loading       0       20         * 110       TD1       Carrier Details (Quantity and Weight)       0       20         * 110       TD5       Carrier Details (Routing Sequence/Transit Time)       0       12         * 130       TD3       Carrier Details (Special (Equipment)       0       12         * 140       TD4       Carrier Details (Special Handling, or Hazardous Materials, or Both)       1       Must use         * 151       PER       Administrative Communications Contact       0       3
* 040       SLN       Subline Item Detail       O       1000         050       PRF       Purchase Order Reference       O       1       Used         * 060       PO4       Item Physical Details       O       1       Used         * 060       PO4       Item Physical Details       O       1       Used         * 070       PID       Product/Item Description       O       200         * 080       MEA       Measurements       O       40         * 090       PWK       Paperwork       O       25         * 100       PKG       Marking, Packaging, Loading       O       20         * 110       TD1       Carrier Details (Quantity and Weight)       O       20         * 120       TD5       Carrier Details (Routing Sequence/Transit Time)       O       12         * 130       TD3       Carrier Details (Special (Equipment)       O       5         * 140       TD4       Carrier Details (Special Handling, or Hazardous Materials, or Both)       O       1         * 145       TSD       Trailer Shipment Details       O       1         150       REF       Reference Identification Communications Contact       Must use
050       PRF       Purchase Order Reference       0       1       Used         * 060       PO4       Item Physical Details       0       1         * 070       PID       Product/Item Description       0       200         * 080       MEA       Measurements       0       40         * 090       PWK       Paperwork       0       25         * 100       PKG       Marking, Packaging, Loading       0       20         * 110       TD1       Carrier Details (Quantity and Weight)       0       20         * 120       TD5       Carrier Details (Routing Sequence/Transit Time)       12         * 130       TD3       Carrier Details (Special (Equipment)       0       12         * 140       TD4       Carrier Details (Special Naterials, or Both)       0       5         * 145       TSD       Trailer Shipment Details       0       1         150       REF       Reference Identification Communications Contact       1       Must use
<ul> <li>* 060 PO4 Item Physical Details O 1</li> <li>* 070 PID Product/Item Description O 200</li> <li>* 080 MEA Measurements O 40</li> <li>* 090 PWK Paperwork O 25</li> <li>* 100 PKG Marking, Packaging, O 25 Loading</li> <li>* 110 TD1 Carrier Details (Quantity O 20 and Weight)</li> <li>* 120 TD5 Carrier Details (Routing O 12 Sequence/Transit Time)</li> <li>* 130 TD3 Carrier Details (Special O 5 Handling, or Hazardous Materials, or Both)</li> <li>* 145 TSD Trailer Shipment Details O 1 150 REF Reference Identification M &gt;1 Must use</li> <li>* 151 PER Administrative O 3 Communications Contact</li> </ul>
* 070       PID       Product/Item Description       O       200         * 080       MEA       Measurements       O       40         * 090       PWK       Paperwork       O       25         * 100       PKG       Marking, Packaging, Loading       O       20         * 110       TD1       Carrier Details (Quantity and Weight)       O       20         * 120       TD5       Carrier Details (Routing Sequence/Transit Time)       O       12         * 130       TD3       Carrier Details       O       12         (Equipment)       Carrier Details (Special (Equipment)       O       5         * 140       TD4       Carrier Details (Special (Equipment)       O       5         * 145       TSD       Trailer Shipment Details       O       1         150       REF       Reference Identification       M       >1       Must use         * 151       PER       Administrative Communications Contact       O       3       O
* 080       MEA       Measurements       O       40         * 090       PWK       Paperwork       O       25         * 100       PKG       Marking, Packaging, O       25         * 110       TD1       Carrier Details (Quantity O       20         * 110       TD1       Carrier Details (Routing O       12         * 120       TD5       Carrier Details (Routing O       12         * 130       TD3       Carrier Details       O       12         * 140       TD4       Carrier Details (Special O       5         * 140       TD4       Carrier Details (Special O       5         * 145       TSD       Trailer Shipment Details O       1         150       REF       Reference Identification M       >1       Must use         * 151       PER       Administrative O       3       3         Communications Contact       100       100       100
<ul> <li>* 100 PKG Marking, Packaging, O 25</li> <li>* 110 TD1 Carrier Details (Quantity O 20 and Weight)</li> <li>* 120 TD5 Carrier Details (Routing O 12 Sequence/Transit Time)</li> <li>* 130 TD3 Carrier Details (O 12 (Equipment))</li> <li>* 140 TD4 Carrier Details (Special O 5 Handling, or Hazardous Materials, or Both)</li> <li>* 145 TSD Trailer Shipment Details O 1</li> <li>150 REF Reference Identification M &gt;1 Must use</li> <li>* 151 PER Administrative O 3 Communications Contact</li> </ul>
* 100       PKG       Marking, Packaging, Loading       O       25         * 110       TD1       Carrier Details (Quantity on the construction of the const
* 110       TD1       Carrier Details (Quantity and Weight)       O       20         * 120       TD5       Carrier Details (Routing Sequence/Transit Time)       O       12         * 130       TD3       Carrier Details       O       12         * 140       TD4       Carrier Details (Special (Equipment)       O       5         * 140       TD4       Carrier Details (Special Naterials, or Both)       O       5         * 145       TSD       Trailer Shipment Details       O       1         * 150       REF       Reference Identification       M       >1       Must use         * 151       PER       Administrative Communications Contact       O       3       3
Sequence/Transit Time)         * 130       TD3       Carrier Details       O       12         (Equipment)       (Equipment)       O       5         * 140       TD4       Carrier Details (Special O       5         Handling, or Hazardous Materials, or Both)       Naterials, or Both)       O       1         * 145       TSD       Trailer Shipment Details       O       1         150       REF       Reference Identification       M       >1       Must use         * 151       PER       Administrative       O       3       O         * LOOP ID - LH1       100       I00       Integral       Integral
(Equipment)         * 140       TD4       Carrier Details (Special Andling, or Hazardous Materials, or Both)       0       5         * 145       TSD       Trailer Shipment Details       0       1         150       REF       Reference Identification       M       >1       Must use         * 151       PER       Administrative       0       3       3 <b>LOOP ID - LH1</b> 100       100       1
Handling, or Hazardous Materials, or Both)         * 145       TSD         150       REF         Reference Identification       M         * 151       PER         Administrative       O         Communications Contact
150       REF       Reference Identification       M       >1       Must use         * 151       PER       Administrative       O       3         Communications Contact
* 151 PER Administrative O 3 Communications Contact <u>100</u>
Communications Contact           * LOOP ID - LH1         100
<u>* LOOP ID - LH1</u> <u>100</u>
Information * 153 LH2 Hazardous Classification O 4
* 154 LH3 Hazardous Material O 12
* 155 LFH Freeform Hazardous O 20
* 156 LEP EPA Required Data O >1
* 157 LH4 Canadian Dangerous O 1
* 158 LHT Transborder Hazardous O 3
Requirements
* 159 LHR Hazardous Material O 10 Identifying Reference Numbers
* 160 PER Administrative O 5 Communications Contact
* 161 LHE Empty Equipment O 1 Hazardous Material Information
* LOOP ID - CLD 200
* 170 CLD Load Detail O 1
* 180 REF Reference Identification O 200
* 185 DTP Date or Time or Period O 1

			_					
* 190	MAN	Marks and Numbers	0	>1				
* 200 * 210	DTM FOB	Date/Time Reference F.O.B. Related	0 0	10 1				
210	FUB	Instructions	0	I				
* 215	PAL	Pallet Information	0	1				
* LOOP I	D - 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				
* 000	500	Communications Contact	~	4				
* 280	FOB	F.O.B. Related Instructions	0	1				
* 290	SDQ	Destination Quantity	0	50				
* 300	ETD	Excess Transportation	õ	1				
000	210	Detail	0					
* 310	CUR	Currency	0	1				
LOOP I	D - SAC	· · · · ·	_	_	>1	_	_	
* 320	SAC	Service, Promotion,	Ō	1		_	_	
		Allowance, or Charge						
		Information	-					
* 325	CUR	Currency	0	1				
* 330	GF	Furnished Goods and Services	0	1				
* 335	YNQ	Yes/No Question	0	10				
* LOOP I				10	10			
* 340	LM	Code Source Information	ō	1		-	-	•••
* 350	LQ	Industry Code	M	100				
		· · · · · · · · · · · · · · · · · · ·				· · · ·		
<u>* <b>LOOP I</b></u> * 360	V1	Vessel Identification	ō	1	<u>&gt;1</u>	-	-	• • •
* 370	R4	Port or Terminal	0	ر >1				
* 380	DTM	Date/Time Reference	0	>1				
				~1	•			
OOP ID				-	<u>200000</u>	C2/010L		
010	HL	Hierarchical Level	M	1		C2/010	Must use	
020	LIN	Item Identification	0	1			Must use	
030	SN1	Item Detail (Shipment)	0	1			Used	
* 040	SLN	Subline Item Detail	0	1000				
* 050	PRF	Purchase Order Reference	0	1				
			0	1				
* 060	PO4	Item Physical Details	()					
* 060 * 070	PO4 PID	Item Physical Details Product/Item Description						
* 070	PID	Product/Item Description	0	200				
* 070 * 080	PID MEA	Product/Item Description Measurements	0 0	200 40				
* 070 * 080 * 090	PID MEA PWK	Product/Item Description Measurements Paperwork	0 0 0	200 40 25				
* 060 * 070 * 080 * 090 * 100	PID MEA	Product/Item Description Measurements Paperwork Marking, Packaging,	0 0	200 40				
* 070 * 080 * 090	PID MEA PWK	Product/Item Description Measurements Paperwork Marking, Packaging, Loading	0 0 0	200 40 25			Used	
* 070 * 080 * 090 * 100	PID MEA PWK PKG	Product/Item Description Measurements Paperwork Marking, Packaging,	0 0 0	200 40 25 25			Used	
* 070 * 080 * 090 * 100	PID MEA PWK PKG	Product/Item Description Measurements Paperwork Marking, Packaging, Loading Carrier Details (Quantity and Weight) Carrier Details (Routing	0 0 0	200 40 25 25			Used Used	
* 070 * 080 * 090 * 100 110 120	PID MEA PWK PKG TD1 TD5	Product/Item Description Measurements Paperwork Marking, Packaging, Loading Carrier Details (Quantity and Weight) Carrier Details (Routing Sequence/Transit Time)		200 40 25 25 20 12				
* 070 * 080 * 090 * 100 110	PID MEA PWK PKG TD1	Product/Item Description Measurements Paperwork Marking, Packaging, Loading Carrier Details (Quantity and Weight) Carrier Details (Routing Sequence/Transit Time) Carrier Details		200 40 25 25 20				
* 070 * 080 * 090 * 100 110 120	PID MEA PWK PKG TD1 TD5	Product/Item Description Measurements Paperwork Marking, Packaging, Loading Carrier Details (Quantity and Weight) Carrier Details (Routing Sequence/Transit Time)		200 40 25 25 20 12				

		Handling, or Hazardous				
* 145	TSD	Materials, or Both)	0	1		
* 150	REF	Trailer Shipment Details Reference Identification	0	، >1		
* 151	PER	Administrative	0	3		
151		Communications Contact	0	5		
LOOP	D - LH1			_	100	
* 152	LH1	Hazardous Identification	Ō	1		
		Information				
* 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		
	<u>D - CLD</u>		-	-	<u>200</u>	
* 170	CLD	Load Detail	0	1		
* 180	REF	Reference Identification	0	200		
* 185 * 190	DTP MAN	Date or Time or Period Marks and Numbers	0	<u>1</u> >1		
200		Date/Time Reference	0	>1 10		Must use
* 210	FOB	F.O.B. Related	0	10		Must use
210	FOB	Instructions	0	1		
215	PAL	Pallet Information	0	1		
LOOP					200	
* 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		
	ETD	Excess Transportation Detail	0	1		
* 300		Dotail				
* 300 * 310	CUR	Currency	0	1		
* <u>310</u>	CUR D - SAC		0	1	>1	

* 005		0	•				11	11
* 325	CUR	Currency	0	1				N/A
* 330	GF	Furnished Goods and Services	0	1				N/A
* 335	YNQ	Yes/No Question	0	10	-		··· 1	N/A
* LOOP	ID - LM		_	_	<u>10</u>	_	<b>-</b>	N/A
* 340	LM	Code Source Information	0	1				N/A
* 350	LQ	Industry Code	Μ	100				N/A
* LOOP I	- V1				>1			N/A
* 360	V1	Vessel Identification	ō	-	<u>~1</u>	-	- ··	N/A
* 370	R4	Port or Terminal	õ	>1				N/A
* 380	DTM	Date/Time Reference	õ	>1				N/A
			0	~1 				
LOOP ID			_	_	<u>200000</u>	<u>C2/010L</u>		46
010	HL	Hierarchical Level	Μ	1		C2/010	Must use	47
* 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			Used	48
* 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	0	>1				N/A
* 151	PER	Administrative	0	3				N/A
		Communications Contact		-		. <u> </u>		
* LOOP	ID - LH1		_	_	<u>100</u>	_		N/A
* 152	LH1	Hazardous Identification Information	0	1				N/A
* 153	LH2	Hazardous Classification Information	0	4				N/A
* 154	LH3	Hazardous Material Shipping Name	0	12				N/A
* 155	LFH	Freeform Hazardous Material Information	0	20				N/A
* 156	LEP	EPA Required Data	0	>1				N/A
* 157	LH4	Canadian Dangerous Requirements	0	1				N/A
* 158	LHT	Transborder Hazardous Requirements	0	3				N/A
* 159	LHR	Hazardous Material Identifying Reference Numbers	0	10				N/A
* 160	PER	Administrative	0	5				N/A

* 161	LHE	Communications Contact 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			Used	49
* 200	DTM	Date/Time Reference	0	10				N/A
* 210	FOB	F.O.B. Related	0	1				N/A
		Instructions	-					
* 215	PAL	Pallet Information	0	. 1				N/A
<u>* LOOP I</u>		·	-		<u>200</u>	-	-	. N/A
* 220	N1	Name	0	1				N/A
* 230	N2	Additional Name	0	2				N/A
* 240	N3	Address Information	0	2				N/A
* 250	N3 N4	Geographic Location	0	2				N/A N/A
* 260	REF	Reference Identification	0	12				N/A
* 270	PER	Administrative	õ	3				N/A
210	1 213	Communications Contact	Ũ	Ũ				
* 280	FOB	F.O.B. Related	Ο	1				N/A
		Instructions						
* 290	SDQ	Destination Quantity	0	50				N/A
* 300	ETD	Excess Transportation	0	1				N/A
		Detail	-					
* 310	CUR	Currency	0	1				N/A
<u>* LOOP I</u>			-	-	<u>&gt;1</u>	-	-	N/A
* 320	SAC	Service, Promotion, Allowance, or Charge Information	0	1				N/A
* 325	CUR	Currency	0	1				N/A
* 330	GF	Furnished Goods and	0	1				N/A
		Services	-					
* 335	YNQ	Yes/No Question	0	10		· .		N/A
* LOOP I			-		<u>10</u>	-	-	N/A
* 340	LM	Code Source Information	0	1				N/A
* 350	LQ	Industry Code	Μ	100				N/A
* LOOP I	D - V1		_	_	<u>&gt;1</u>	_	_	N/A
* 360	V1	Vessel Identification	Ō	1				N/A
* 370	R4	Port or Terminal	0	>1				N/A
* 380	DTM	Date/Time Reference	0	>1				N/A
Summa	nv.							
Pos	<u>ld</u>	Segment Name	Req	<u>Max Use</u>	<u>Repeat</u>	<u>Notes</u>	<u>Usage</u>	Page
010	CTT	Transaction Totals	0	<u>1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 </u>	πορεαι	N3/010	Used	51
020	SE	Transaction Set Trailer	M	1			Must use	52
	~-							

GE Functional Group Trailer IEA Interchange Control 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.

Μ

Μ

1

1

53

54

Must use

Must use

#### **Comments:**

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

#### 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

## **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: Element Name** Min/Max Ref ld Req Type Usage ISA01 101 Authorization Information Qualifier M ID 2/2Must use Description: Code to identify the type of information in the Authorization Information All valid standard codes are used. ISA02 102 Authorization Information 10/10 М AN Must use Description: Information used for additional identification or authorization of the interchange sender or the data in the interchange; the type of information is set by the Authorization Information Qualifier (I01) ID ISA03 103 **Security Information Qualifier** Μ 2/2Must use Description: Code to identify the type of information in the Security Information All valid standard codes are used. ISA04 104 **Security Information** Μ AN 10/10 Must use Description: This is used for identifying the security information about the interchange sender or the data in the interchange; the type of information is set by the Security Information Qualifier (103) ISA05 105 **Interchange ID Qualifier** Μ ID 2/2 Must use Description: Qualifier to designate the system/method of code structure used to designate the sender or receiver ID element being gualified All valid standard codes are used. ISA06 106 AN 15/15 Interchange Sender ID Μ Must use **Description:** Identification code published by the sender for other parties to use as the receiver ID to route data to them; the sender always codes this value in the sender ID element ISA07 105 Interchange ID Qualifier Μ 2/2 Must use Description: Qualifier to designate the system/method of code structure used to designate the sender or receiver ID element being qualified Code Name Phone (Telephone Companies) 12 Buver Usage: "12" is the Production ID Qualifier ZZ Mutually Defined **Buyer Usage:** "ZZ" is the Test ID Qualifier ISA08 107 Μ AN 15/15Must use **Interchange Receiver ID** Description: Identification code published by the receiver of the data; When sending, it is used by the sender as their sending ID, thus other parties sending to them will use this as a receiving ID to route data to them Buyer Usage: 8472722888 - Production ID 8472722888T - Test ID ISA09 108 **Interchange Date** Μ DT 6/6 Must use

		Description: Date of the interchange				
ISA10	109	Interchange Time	М	ТМ	4/4	Must use
		Description: Time of the interchange				
ISA11	I10	Interchange Control Standards Identifier	М	ID	1/1	Must use
		<b>Description:</b> Code to identify the agency responses that is enclosed by the interchange h <b>All valid standard codes are used.</b>			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.	ber of th	ne intercha	ange control	segments
ISA13	l12	Interchange Control Number	М	N0	9/9	Must use
		Description: A control number assigned by the	e interch	nange sen	der	
ISA14	113	Acknowledgment Requested	М	ID	1/1	Must use
		Description: Code sent by the sender to reque All valid standard codes are used.	est an ir	nterchange	e acknowled	gment (TA1)
ISA15	114	Usage Indicator	М	ID	1/1	Must use
		<b>Description:</b> Code to indicate whether data er production or information <b>All valid standard codes are used.</b>	iclosed	by this inte	erchange en	velope is test,
ISA16	l15	Component Element Separator	М		1/1	Must use
		<b>Description:</b> Type is not applicable; the compo data element; this field provides the delimiter u a composite data structure; this value must be the segment terminator	sed to s	eparate c	omponent da	ata elements within
	e:		70000	40000100	0404400000	

Ε ISA^00^

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

## **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

Elemen	t Sumr	narv:							
<u>Ref</u> GS01	<u>ld</u> 479	Element Na	<u>me</u> dentifier Code	<u>Req</u> M	<u>Type</u> ID	<u>Min/Max</u> 2/2	<u>Usage</u> Must use		
		Description	: Code identifying a group of appl	ication re	elated trar	nsaction sets			
		<u>Code</u> SH	<u>Name</u> Ship Notice/Manifest (856)						
GS02	142	Application	Sender's Code	М	AN	2/15	Must use		
		Description	Description: Code identifying party sending transmission; codes agreed to by trading partner						
GS03	124	Application	Receiver's Code	М	AN	2/15	Must use		
		partners Buyer Usag It is possible purchase ord Here are the "CRATEDOM" "CRATEDOM" "EUROMDE "EUROMDE "EUROMDE "CRATECUS "CB2DOMES "CB2DOMES "CB2INTLAG "CRATECAN" "CRATECAN" "CRATECAN" "LONODDOM" "LONODMBJ "LONODMBJ	: Code identifying party receiving e: You should return the GS ID as for you to receive multiple IDs ov der will belong to only one GS ID. possible GS IDs: MES" - Crate and Barrel Domestic MREP" - Crate and Barrel Domestic SIG" - Crate and Barrel Internatio SAGT" - Crate and Barrel Internatio SAGT" - Crate and Barrel Internations ST" - CB2 Domestic EP" - CB2 Domestic EP" - CB2 Domestic RET" - CR2 International Agent NADA" - Crate and Barrel Canada NREP" - Crate and Barrel Canada MES" - Land of Nod Domestic MREP" - Land of Nod Domestic RK" - Land of Nod International AGT" - Land of Nod International ST" - Land of Nod International	s sent in rer a ran <u>c</u> tic Rep nal tional Ag	the origir	al 850 GS02	element.		
GS04	373	Date		М	DT	8/8	Must use		
		Description	: Date expressed as CCYYMMDE	)					
GS05	337	Time	·	М	ТМ	4/8	Must use		
		HHMMSSD, seconds (00-	: Time expressed in 24-hour clock or HHMMSSDD, where H = hours -59) and DD = decimal seconds; o and DD = hundredths (00-99)	s (00-23)	, M = mir	nutes (00-59),	S = integer		
GS06	28	Group Cont	rol Number	М	N0	1/9	Must use		
		Description	: Assigned number originated and	d maintai	ned by th	e sender			

GS07	455	Responsible Agency Code	М	ID	1/2	Must use
		Description: Code identifying the issuer of the Data Element 480 All valid standard codes are used.	standaı	rd; this co	ode is used in	conjunction with
GS08	480	Version / Release / Industry Identifier Code	М	AN	1/12	Must use
		<b>Description:</b> Code indicating the version, releat EDI standard being used, including the GS and is X, then in DE 480 positions 1-3 are the version subrelease, level of the version; and positions 7 identifiers (optionally assigned by user); if code formats are allowed	GE seg on numb 7-12 are	gments; if ber; positi the indu	code in DE4 ions 4-6 are t stry or trade a	55 in GS segment he release and association

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

#### Semantics:

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

#### **Comments:**

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

#### **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	ld	Element Name	Req	Туре	Min/Max	<u>Usage</u>		
ST01	143	Transaction Set Identifier Code	М	ID	3/3	Must use		
		Description: Code uniquely identifying a Trans All valid standard codes are used.	saction	Set				
ST02	329	Transaction Set Control Number	Μ	AN	4/9	Must use		
		<b>Description:</b> 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).

#### Example:

ST^856^1234

**Heading - Mandatory** 

Max: 1

Elements: 4

Pos: 020

Loop: N/A

## **BSN** Beginning Segment for Ship Notice

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	<u>Element Name</u> Transaction Set Purpose Code	<u>Req</u> M	<u>Type</u> ID	<u>Min/Max</u> 2/2	<u>Usage</u> Must use		
		Description: Code identifying purpose of trans	action s	set				
		CodeName00Original						
BSN02	396	Shipment Identification	М	AN	2/30	Must use		
		<b>Description:</b> A unique control number assigne shipment	d 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	ТМ	4/8	Must use		
		<b>Description:</b> 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) <b>Buyer Usage:</b> Use date format HHMMSSDD						

#### 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

## **DTM** Date/Time Reference

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

#### User Option (Usage): Used

**Purpose:** To specify pertinent dates and times

#### **Element Summary:**

<u>Ref</u> DTM01	<u>ld</u> 374	Element Name Date/Time Qualifier	<u>Req</u> M	<u>Type</u> ID	<u>Min/Max</u> 3/3	<u>Usage</u> Must use		
		Description: Code specifying type of date or time, or both date and time						
		CodeName011Shipped						
DTM02	373	Date	Х	DT	8/8	Must use		
		Description: Date expressed as CCYY	MMDD					
DTM03	337	Time	Х	ТМ	4/8	Used		
	<b>Description:</b> 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)							
		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 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	ld	Segment Name	Req	Max Use	Repeat	<u>Usage</u>
010	HL	Hierarchical Level	Μ	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	М		200000	Must use

#### Example:

HL^1^^S TD1^CTN90^8 TD5^^2^ZCSU^M^CENTRAL STATES TRUCKING^CD TD3^TL^DOLT^2398734223^^^012002348703719 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<sup>2</sup>101 Oak Street N4^Northbrook^IL^60062^US N1^ZZ^Freight Bookers R US N3^2101 80th Street^Industrial Park N4^Northbrook^IL^60062^US

## 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

Elemen	t Sum	mary:					
Ref	ld	Element Name	Req	Type	<u>Min/Max</u>	<u>Usage</u>	
HL01	628	Hierarchical ID Number	Μ	AN	1/12	Must use	
		<b>Description:</b> A unique number assigned by the 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	
		<b>Description:</b> Identification number of the next segment being described is subordinate to	higher h	nierarchic	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 level in a hierarchical structure						
		CodeNameSShipment					

#### 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

# 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:**

<u>Ref</u> TD101	<u>ld</u> 103		<u>Element Name</u> Packaging Code		<u>Type</u> AN	<u>Min/Max</u> 3/5	<u>Usage</u> Used
			: Code identifying the type of pack Naterial; if the Data Element is used				
		<u>Code</u> 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 : Number of units (pieces) of the la	X ading co	N0 mmodity	1/7	Used
		Buyer Usag	<b>je:</b> Total Number of shipping units	(e.g. ca	rtons or b	ags) for the sh	nipment.

#### 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

# **TD5** Carrier Details (Routing 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

#### **Element Summary:**

	. oann	i wi yi						
<u>Ref</u> TD502	<u>ld</u> 66	Element Nan	<u>ne</u> າ Code Qualifier	<u>Req</u> X	<u>Type</u> ID	<u>Min/Max</u> 1/2	<u>Usage</u> Used	
		Description: Code (67)	Code designating the system/me	ethod of	code stru	cture used for	Identification	
		<u>Code</u> 2	<u>Name</u> Standard Carrier Alpha Code (S	CAC)				
TD503	67	Identification	n Code	Х	AN	2/80	Used	
		Description:	Code identifying a party or other	code				
TD504	91	Transportati	on Method/Type Code	Х	ID	1/2	Used	
		Description: Code specifying the method or type of transportation for the shipment						
TD505	387		NameAirMotor (Common Carrier)Containerized OceanRailBest Way (Shippers Option)Private Parcel ServiceAir ExpressLess Than Trailer Load (LTL)RoadrailerDescription: Used for shipmentrail/highway trailerMutually definedFree-form description of the routFree-form description of the rout	х	AN	1/35	Used	
<b>TD</b> = 0.0			e: Carrier Name		10	0.40		
TD506	368	•	der Status Code	. X	ID	2/2	Used	
			Code indicating the status of an tween the quantity ordered and the					
Cumters	Dules	Code CD	Name Consolidated Freight Buyer Usage: Send this code if another comp container - it is going to be con important to notify us of this co U.S. being made via an ocean	nsolidate ondition i	d with oth	ner shipments.	It is very	
Svntax	KUIES!							

#### 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 N Equipmen	<u>ame</u> t Description Code	<u>Req</u> X	<u>Type</u> ID	<u>Min/Max</u> 2/2	<u>Usage</u> Used	
		Descriptio	Description: Code identifying type of equipment used for shipment					
		<u>Code</u> AF TL VE	<u>Name</u> Air Freight (Break Bulk) Trailer (not otherwise specified) Vessel, Ocean					
TD302	206	Equipmen	t Initial	0	AN	1/4	Used	
		Descriptio	n: Prefix or alphabetic part of an eq	uipment	unit's ide	entifying numb	er	
TD303	207	Equipmen	t Number	Х	AN	1/10	Used	
		-	<ul> <li>n: Sequencing or serial part of an e uipment number is preferred)</li> </ul>	quipmeı	nt unit's io	dentifying num	ber (pure numeric	
TD309	225	Seal Numb	ber	0	AN	2/15	Used	
Description: Unique number on seal used to close a 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:**

RefIdREF01128		Element Name Reference Identification Qualifier			<u>Type</u> ID	<u>Min/Max</u> 2/3	<u>Usage</u> Must use			
		Description	: Code qualifying the Reference Ic	dentificat	ion					
		<u>Code</u> 2l	<u>Name</u> Tracking Number							
			<b>Buyer Usage:</b> 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 requir	red by bu	ıyer.					
		CN	Carrier's Reference Number (PRO/Invoice)							
		TF	Transfer Number							
		IRN	Importer's Reference Number to	Letter of	of Credit					
	<b>Description:</b> 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								

#### 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.

by the Reference Identification Qualifier

#### **Example:**

REF^BM^ZPUD5498754 REF^IRN^SVB00IS

#### **Date/Time Reference** Pos: 200 Max: 10 DTM **Detail - Optional** Loop: HL Elements: 2 User Option (Usage): Used Purpose: To specify pertinent dates and times **Element Summary: Element Name** Ref ld Req Type Min/Max Usage DTM01 374 **Date/Time Qualifier** Μ 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 DT 8/8 Date Х 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	Sumr	nary:						
Ref	<u>ld</u>	Element Na		Req	Type	Min/Max	<u>Usage</u>	
FOB01	146	Shipment M	ethod of Payment	М	ID	2/2	Must use	
		Description	: Code identifying payment terms f	or trans	portation	charges		
		<u>Code</u> DF	<u>Name</u> Defined by Buyer and Seller					
FOB02	309	Location Qu	alifier	Х	ID	1/2	Used	
		Description: Code identifying type of location						
		<u>Code</u> KL	<u>Name</u> Port of Loading					
FOB03	352	Description		0	AN	1/80	Used	
		Description	A free-form description to clarify t	the relat	ed data e	elements and t	heir content	
FOB06	309	Location Qu	alifier	Х	ID	1/2	Used	
		Description	Code identifying type of location					
		<u>Code</u> PB	<u>Name</u> Port of Discharge <b>Description:</b> <i>Port where shipme</i>	ent is ur	loaded			
FOB07	352	Description		0	AN	1/80	Used	
		Description	A free-form description to clarify t	the relat	ed data e	elements and t	heir content	

#### 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:

Pos	ld	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

#### Pos: 220 Max: 1 Name Ν1 **Detail - Optional Elements:** 4 .oop: N1 User Option (Usage): Used Purpose: To identify a party by type of organization, name, and code **Element Summary:** Ref ld **Element Name** Rea Tvpe Min/Max Usage N101 98 **Entity Identifier Code** Μ ID 2/3Must use Description: Code identifying an organizational entity, a physical location, property or an individual Code Name CS 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 shipments coming to the United States via an Ocean Shipment (Air shipments are excluded as well as truck or rail from Canada or Mexico). This should include the name of who stuffed the goods into the container and where the container was loaded. This could be either your factory or another company/location. MF Manufacturer of Goods **Buyer Usage:** This would be the name and address of who the final manufacturer of the product is. SF Ship From ST Ship To ZZ Mutually Defined **Buyer Usage:** Used to define the name and address for a "Booking Party" - company name and address of who booked the shipment on your behalf. N102 93 Name Х AN 1/60 Used **Description:** Free-form name N103 66 Identification Code Qualifier Х ID 1/2Used Description: Code designating the system/method of code structure used for Identification Code (67) Code Name 92 Assigned by Buyer or Buyer's Agent N104 67 **Identification Code** Х AN 2/80Used 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 loop (Pos: 310)) When $N1_01 = SF$ the suppliers internal code for the ship from location is sent in $N1_04$ .

#### 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:**

- 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 18<sup>th</sup> 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:**

		ina yi							
Ref	ld	Element Name	Req	Type	<u>Min/Max</u>	<u>Usage</u>			
N301	166	Address Information	Μ	AN	1/55	Must use			
		Description: Address information							
		<b>Buyer Usage:</b> Only the First 30 characters shi ignored.	ould be	used - ar	ny characters a	fter that will be			
N302	166	Address Information	0	AN	1/55	Used			
		Description: Address information							
		<b>Buyer Usage:</b> Only the First 30 characters should be used - any characters after that will be ignored.							

#### **Example:**

N1^MF^PANS R US N3^1701 18<sup>th</sup> 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:**

<u>Ref</u> N401	<u>ld</u> 19	<u>Element Name</u> City Name	<u>Req</u> O	<u>Type</u> AN	<u>Min/Max</u> 2/30	<u>Usage</u> Used			
11-01	15	Description: Free-form text for city name Buyer Usage: Only the first 35 characters sho	_						
		ignored.	uiu be t	iseu - an	y characters ar				
N402	156	State or Province Code	0	ID	2/2	Used			
		<b>Description:</b> Code (Standard State/Province) as defined by appropriate government agency <b>Buver Usage:</b>							
		This should either be a US state code or Country Sub-Entity code. Valid values are found at:							
	http://www.unece.org/cefact/locode/service/sublocat.htm								
		Only 2 characters for a Country Sub-Entity coc code is 3 characters.	le can b	e sent. L	eave blank if y.	our sub-country			
N403	116	Postal Code	0	ID	3/15	Used			
		<b>Description:</b> Code defining international posta (zip code for United States)	l zone d	code excl	uding punctuat	tion and blanks			
N404	26	Country Code	0	ID	2/3	Used			
		<b>Description:</b> Code identifying the country <b>Buyer Usage:</b> The international Standards Organization (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 18<sup>th</sup> 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: Element Name** Ref ld Req Type Min/Max Usage PER01 366 **Contact Function Code** Μ ID 2/2 Must use Description: Code identifying the major duty or responsibility of the person or group named Code Name IC Information Contact PER02 93 Name 0 AN 1/60 Used Description: Free-form name 2/2 PER03 365 **Communication Number Qualifier** Х ID Used **Description:** Code identifying the type of communication number Code Name ΕM Electronic Mail FΧ Facsimile ΤE Telephone PER04 Х 1/80 364 **Communication Number** AN Used Description: Complete communications number including country or area code when applicable PER05 365 **Communication Number Qualifier** Х ID 2/2 Used Description: Code identifying the type of communication number Code Name ΕM **Electronic Mail** FΧ Facsimile TE Telephone PER06 Х 1/80 Used 364 **Communication Number** AN Description: Complete communications number including country or area code when applicable PER07 365 **Communication Number Qualifier** Х ID 2/2 Used Description: Code identifying the type of communication number Code Name ΕM **Electronic Mail** FΧ Facsimile TE Telephone PER08 364 **Communication Number** Х AN 1/80 Used Description: Complete communications number including country or area code when applicable

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

#### Example:

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

## HL Hierarchical Level

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

User Option (Usage): Must use

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

Element Summary:							
Ref	ld	Element Name	Req	Type	<u>Min/Max</u>	<u>Usage</u>	
HL01	628	Hierarchical ID Number	М	AN	1/12	Must use	
		<b>Description:</b> A unique number assigned by the 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	
		<b>Description:</b> Identification number of the next segment being described is subordinate to	higher h	nierarchic	al data segme	nt that the data	
HL03	735	Hierarchical Level Code	М	ID	1/2	Must use	
		Description: Code defining the characteristic of	of a leve	l in a hie	rarchical struct	ure	
		CodeNameOOrder					

#### 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:**

Ref	ld	Element Name	<u>Req</u>	Type	<u>Min/Max</u>	<u>Usage</u>
PRF01	324	Purchase Order Number	Μ	AN	1/22	Must use
		Departmentions, Islandifising, asymptotic for D	urahaaa Ordar a			

**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:**

inomorit o'annina yr								
<u>Ref</u>	ld	Element Name	Req	Type	<u>Min/Max</u>	<u>Usage</u>		
REF01	128	Reference Identification Qualifier	М	ID	2/3	Must use		
		Description: Code qualifying the Reference I	dentifica	tion				
		CodeNameIAInternal Vendor Number						
REF02	127	Reference Identification	М	AN	1/30	Must use		
		<b>Description:</b> 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 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	ld	Segment Name	Req	Max Use	Repeat	Usage
				<u>max 000</u>	Ropour	
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	М		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

Elemen	t Sumi	mary:				
Ref	<u>ld</u>	Element Name	Req	Туре	<u>Min/Max</u>	<u>Usage</u>
HL01	628	Hierarchical ID Number	Μ	AN	1/12	Must use
		<b>Description:</b> A unique number assigned by the 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
		<b>Description:</b> Identification number of the next segment being described is subordinate to	higher h	nierarchic	al data segme	nt that the data
HL03	735	Hierarchical Level Code	М	ID	1/2	Must use
		Description: Code defining the characteristic of	of a leve	el in a hie	rarchical struct	ture
		Code Name I Item				

#### Comments:

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

#### **Example:**

HL^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:**

LICITICIT	USunn	nary.					
<u>Ref</u> LIN02	<u>ld</u> 235	<u>Element Nar</u> Product/Ser	<u>ne</u> vice ID Qualifier	<u>Req</u> M	<u>Type</u> ID	<u>Min/Max</u> 2/2	<u>Usage</u> Must use
		Description: Product/Serv	: Code identifying the type/source rice ID (234)	e of the d	escriptive	e number used	l in
		<u>Code</u> PL	Name Purchaser's Order Line Number	r			
			Buyer Usage: Original PO Line Item Number 850.	r required	d by Buy	er. Must match	PO1_01 from
LIN03	234	Product/Ser	vice ID	М	AN	1/48	Must use
		Description	: Identifying number for a product	or servic	e		
LIN04	235	Product/Ser	vice ID Qualifier	Х	ID	2/2	Must use
		Description: Product/Serv	: Code identifying the type/source ice ID (234)	e of the d	escriptive	e number used	1 in
		<u>Code</u>	Name				
		IN	Buyer's Item Number				
			Buyer Usage: 6 digit SKU number				
LIN05	234	Product/Ser	vice ID	Х	AN	1/48	Must use
		Description	: Identifying number for a product	or servic	e		
LIN06	235	Product/Ser	vice ID Qualifier	Х	ID	2/2	Used
		<b>Description</b> : Product/Serv	: Code identifying the type/source rice ID (234)	e of the d	escriptive	e number used	1 in
		<u>Code</u> VN	<u>Name</u> Vendor's (Seller's) Item Numbe	r			
LIN07	234	Product/Ser	vice ID	Х	AN	1/48	Used
		Description	: Identifying number for a product	or servic	e		
Syntax	Rules:						
-			105 is present, then the other is r	equired.			
			107 is present, then the other is r	-			
3. P080	9 - If eith	er LIN08 or LIN	109 is present, then the other is r	equired.			
			I11 is present, then the other is r	•			
			113 is present, then the other is r				
			115 is present, then the other is r	-			
			V17 is present, then the other is r	-			
0. 1181	s - II eith		119 is present, then the other is r	equired.			

- 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:**

Licinciit	ounn	naiy.					
Ref	ld	Element Nar	ne_	Req	Type	Min/Max	Usage
SN102	382	Number of U	Inits Shipped	Μ	R	1/10	Must use
		Description: transaction se	Numeric value of units shipped in et	manufa	acturer's	shipping units	for a line item or
SN103	355	Unit or Basis	s for Measurement Code	М	ID	2/2	Must use
			Code specifying the units in whick surement has been taken	h a valu	e is bein	g expressed, o	or manner in
		Code	Name				
		EA	Each				
Syntax R	lules:						

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

#### **Semantics:**

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

#### **Comments:**

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

#### Example:

SN1^^805^EA

**Detail - Optional** 

Max: 20

Elements: 5

Pos: 110

Loop: HL

# TD1 Carrier Details (Quantity and Weight)

User Option (Usage): Used

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

#### **Element Summary:**

<u>Ref</u> TD101	<u>Id</u> 103	Element Na Packaging		Req O	<u>Type</u> AN	<u>Min/Max</u> 3/5	<u>Usage</u> Used
			Code identifying the type of pack Material; if the Data Element is use				
		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	antity	Х	N0	1/7	Used
		Description	n: Number of units (pieces) of the I	ading co	mmodity		
TD106	187	Weight Qua	alifier	0	ID	1/2	Used
		Descriptior	Code defining the type of weight	t			
		<u>Code</u> G N	<u>Name</u> Gross Weight Actual Net Weight				
TD107	81	Weight		Х	R	1/10	Used
		Description	n: Numeric value of weight				
TD108	355	Unit or Bas	is for Measurement Code	Х	ID	2/2	Used
			a: Code specifying the units in which a surement has been taken	ch a valu	e is being	g expressed, or	manner in
		<u>Code</u>	<u>Name</u>				

COUC	Name
KG	Kilogram
LB	Pound

#### Syntax Rules:

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

#### **Buyer Usage:**

TD1 segment can occur up to 3 times.

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:**

<u>Ref</u>	ld	Element Name	<u>Req</u>	Type	<u>Min/Max</u>	<u>Usage</u>
TD506	368	Shipment/Order Status Code	Х	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

<u>Code</u>	<u>Name</u>
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

#### **Date/Time Reference** Pos: 200 Max: 10 DTM **Detail - Optional** <u>.oop:</u> HL Elements: 2 User Option (Usage): Must use Purpose: To specify pertinent dates and times **Element Summary:** Ref ld **Element Name** Rea Tvpe Min/Max Usage DTM01 374 **Date/Time Qualifier** Μ 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 Х 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 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	Μ	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^0000074860075232455 MAN^GM^00000340860075322495 MAN^GM^00000340860075322502 MAN^GM^00000340860075322546 MAN^GM^00000340860075332557

## 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	t Sumi	nary:				
Ref	ld	Element Name	Req	Туре	<u>Min/Max</u>	<u>Usage</u>
HL01	628	Hierarchical ID Number	М	AN	1/12	Must use
		<b>Description:</b> A unique number assigned by the 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
		<b>Description:</b> Identification number of the next segment being described is subordinate to	higher h	nierarchic	al data segme	nt that the data
HL03	735	Hierarchical Level Code	М	ID	1/2	Must use
		Description: Code defining the characteristic of	of a leve	l in a hie	rarchical struct	ure
		CodeNamePPack				

#### **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:**

		inal yr				
Ref	ld	Element Name	Req	Type	<u>Min/Max</u>	<u>Usage</u>
PO401	356	Pack	0	N0	1/6	Used
		<b>Description:</b> The number of inner containers, containers, per outer container	or numt	per of eac	hes if there are	e no inner
		<b>Buyer Usage:</b> Quantity per carton/container a following MAN segment(s) for this pack level.	nd appli	es to all o	containers refe	renced in the
		If a container is sent with a different container	quantity	, a new F	ack level shou	ld 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:**

- 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:**

<u>Ref</u> MAN01	<u>ld</u> 88		Numbers Qualifier	<u>Req</u> M	<u>Type</u> ID	<u>Min/Max</u> 1/2	<u>Usage</u> Must use
		Description	: Code specifying the application of	or source	e of Mark	s and Number	s (87)
		<u>Code</u> W	<u>Name</u> Pallet Number				
			Buyer Usage:				
			If carton/containers are palletiz	zed:			
			UCC/EAN-128 Serial Shipping Code (SSCC-18) for the pallet		ner		
		GM	SSCC-18 and Application Identi	fier			
			Buyer Usage: UCC/EAN-128 Serial Shipping Code (SSCC-18) for each cart				
MAN02	87	Marks and M	Numbers	Μ	AN	1/48	Must use
		Description	: Marks and numbers used to ider	ntify a sh	ipment o	r parts of a shi	pment
MAN03	87	Marks and N	Numbers	0	AN	1/48	Used
		Description	: Marks and numbers used to ider	ntify a sh	ipment o	r parts of a shi	pment

#### 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

Summary - Optional

Max: 1

Elements: 1

Pos: 010

Loop: N/A

## **CTT** Transaction Totals

User Option (Usage): Used

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

#### **Element Summary:**

Ref	ld	Element Name	Req	Туре	<u>Min/Max</u>	Usage	
CTT01	354	Number of Line Items	Μ	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.					
	D. I.						

#### 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	ld	Element Name	Req	Type	<u>Min/Max</u>	<u>Usage</u>		
SE01	96	Number of Included Segments	М	N0	1/10	Must use		
		<b>Description:</b> Total number of segments includ segments	ed in a t	transactio	on set including	ST and SE		
SE02	329	Transaction Set Control Number	М	AN	4/9	Must use		
		<b>Description:</b> Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction 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	ld	Element Name	Req	Type	Min/Max	<u>Usage</u>	
GE01	97	Number of Transaction Sets Included	М	N0	1/6	Must use	
		<b>Description:</b> Total number of transaction sets (transmission) group terminated by the trailer			• •	or interchange	
GE02	28	Group Control Number	М	N0	1/9	Must use	
		Description: Assigned number originated and maintained by the sender					

#### Semantics:

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

#### **Comments:**

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

#### **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:**

<u>Ref</u> IEA01	<u>ld</u> I16	Element Name Number of Included Functional Groups	<u>Req</u> M	<u>Type</u> N0	<u>Min/Max</u> 1/5	<u>Usage</u> Must use
		Description: A count of the number of functio	nal grou	ps includ	ed in an interch	nange
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^^^012002348703719 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<sup>2101</sup> 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^0000074860075232455 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^0000074860075232455 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.

