856 Ship Notice/Manifest

X12/V4010/856: 856 Ship Notice/Manifest

Version: 1.5 Final

Author: Company: Notes:

Crate and Barrel Shipment-Order-Pack-Item Structure FINAL APPROVED 3-16-2009

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:

neauni	j.							
Pos	ld	Segment Name	Req	<u>Max Use</u>	Repeat	<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	<u>ld</u>	Segment Name	Req	Max Use	Repeat	<u>Notes</u>	<u>Usage</u>	Page
LOOP ID	- HL		_	_	200000	C2/010L	_	17

POS	<u>Ia</u>	Segment Name	Req	<u>Max Use</u>	Repeat	Notes	Usage	Page
LOOP ID	- <u>HL</u>		_	_	200000	<u>C2/010L</u>	_	17
010	HL	Hierarchical Level	М	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	<u>D - LH1</u>		_	_	<u>100</u>	_	<u>_</u>	N/A
* 152	LH1	Hazardous Identification Information	0	1				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	~	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	Õ	10			Used	
210	FOB	F.O.B. Related	0	1			Used	
* 215	PAL	Pallet Information	0	1				
LOOP ID			<u> </u>	· ·	200	·		
220	N1	Name	ō	1	200	-	Used	
* 230	N2	Additional Name	õ	2			0360	
		Information	-					
240	N3	Address Information	0	2			Used	
250	N4	Geographic Location	0	1			Used	
* 260	REF	Reference Identification	0	12				
270	PER	Administrative	0	3			Used	
* 280	FOB	Communications Contact F.O.B. Related	0	1				
* 000	050	Instructions	~	= -				
* 290	SDQ	Destination Quantity	0	50				
* 300	ETD	Excess Transportation Detail	0	1				
* 310	CUR	Currency	0	1	· · ·			
<u>* LOOP I</u>		- · · · ·	-	_	<u>>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	<u></u>	-	_	
* 350	LQ	Industry Code	M	100				
<u>* LOOP I</u>	<u>U - V1</u>		-	-	<u>>1</u>	_	_	

* 000	14		~	4				
* 360 * 370	V1 R4	Vessel Identification Port or Terminal	0 0	1 >1				N/A N/A
* 380	DTM	Date/Time Reference	õ	>1				N/A
					200000	C2/010L		33
010	HL	Hierarchical Level	M	-	200000	C2/010L C2/010	Must use	
* 020	LIN	Item Identification	0	1		02/010	Made add	N/A
* 030	SN1	Item Detail (Shipment)	õ	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	Μ	>1			Must use	36
* 151	PER	Administrative	0	3				N/A
*	5	Communications Contact						
* LOOP * 152	<u>D - LH1</u> LH1	Hazardous Identification	ō	_ 1	<u>100</u>	-		N/A
* 153	LH1	Information Hazardous Classification	0	4				N/A
* 154	LH2	Information Hazardous Material	0	12				N/A
* 155	LFH	Shipping Name Freeform Hazardous	0	20				N/A
		Material Information						
* 156 * 157	LEP LH4	EPA Required Data Canadian Dangerous	0 0	>1 1				N/A N/A
		Requirements						
* 158	LHT	Transborder Hazardous Requirements	0	3				N/A
* 159	LHR	Hazardous Material Identifying Reference Numbers	0	10				N/A
* 160	PER	Administrative Communications Contact	0	5				N/A
* 161	LHE	Empty Equipment Hazardous Material Information	0	1				N/A
* LOOP I		· · · · · · · · · · · · · · · · · · ·			200			 N/A
* 170	CLD	Load Detail	ō	-	200	-		. N/A
* 180	REF	Reference Identification	õ	200				N/A
* 185	DTP	Date or Time or Period	õ	1				N/A
								_ · ·

* 190	MAN	Marks and Numbers	0	>1				
* 200	DTM	Date/Time Reference	0	10				
* 210	FOB	F.O.B. Related Instructions	0	1				
* 215	PAL	Pallet Information	0	1				
LOOP			<u> </u>		200	· ·		
* 220	N1	Name	ō	1	200	-	-	
* 230	N2	Additional Name	õ	2				
200	142	Information	Ũ	2				
* 240	N3	Address Information	0	2				
* 250	N4	Geographic Location	0	1				
* 260	REF	Reference Identification	0	12				
* 270	PER	Administrative	0	3				
		Communications Contact						
* 280	FOB	F.O.B. Related	0	1				
* 000	000	Instructions	~	50				
* 290	SDQ	Destination Quantity	0	50 1				
* 300	ETD	Excess Transportation Detail	0	1				
* 310	CUR	Currency	0	1				
	D - SAC		<u> </u>		>1			
* 320	SAC	Service, Promotion,	ō	1	<u></u>	-	-	
		Allowance, or Charge	-	•				
		Information						
* 325	CUR	Currency	0	1				
* 330	GF	Furnished Goods and	0	1				
* 335	YNQ	Services Yes/No Question	0	10				
555 LOOP I		res/NO Question	0	10	10			
* 340	LM	Code Source Information	ō	-	10	-	-	•••
* 350	LQ	Industry Code	M	100				
		· · · · · · · · · · · · · · · · · · ·						
LOOP I		Mana al Islandifi an Gan	-	-	<u>>1</u>	_	-	
* 360	V1	Vessel Identification	0	1				
* 370 * 380	R4 DTM	Port or Terminal Date/Time Reference	0 0	>1 >1				
300			0	>1				
<u>.00P ID</u>			-	_	<u>200000</u>	<u>C2/010L</u>	_	
010	HL	Hierarchical Level	М	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	0	1				
* 060		Reference	\circ	4				
* 060 * 070	PO4 PID	Item Physical Details Product/Item Description	0 0	1 200				
		-		200 40				
	MEA P\//K	Measurements Paperwork	0					
090	PWK	Paperwork	0	25				
* 080 * 090 * 100		Paperwork Marking, Packaging,						
* 090 * 100	PWK PKG	Paperwork Marking, Packaging, Loading	0 0	25 25				
* 090	PWK	Paperwork Marking, Packaging, Loading Carrier Details (Quantity	0	25				
* 090 * 100 * 110	PWK PKG	Paperwork Marking, Packaging, Loading Carrier Details (Quantity and Weight) Carrier Details (Routing	0 0	25 25				
* 090 * 100 * 110 * 120	PWK PKG TD1 TD5	Paperwork Marking, Packaging, Loading Carrier Details (Quantity and Weight) Carrier Details (Routing Sequence/Transit Time)	0 0 0	25 25 20 12				
* 090 * 100 * 110	PWK PKG TD1	Paperwork Marking, Packaging, Loading Carrier Details (Quantity and Weight) Carrier Details (Routing Sequence/Transit Time) Carrier Details	0 0 0	25 25 20				
* 090 * 100 * 110 * 120	PWK PKG TD1 TD5	Paperwork Marking, Packaging, Loading Carrier Details (Quantity and Weight) Carrier Details (Routing Sequence/Transit Time)	0 0 0	25 25 20 12				

		Handling, or Hazardous						
* 145	TSD	Materials, or Both) Trailer Shipment Details	0	1				
* 150	REF	Reference Identification	0	>1				
* 151	PER	Administrative	0	3				
131		Communications Contact	0	5				
* LOOP	ID - 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>200</u>	-	_	
* 170 * 180	CLD REF	Load Detail	0 0	1 200				
* 185		Reference Identification Date or Time or Period	0	200				
190	MAN	Marks and Numbers	0	>1			Used	
* 200	DTM	Date/Time Reference	0	10			0300	
* 210	FOB	F.O.B. Related	õ	1				
210	100	Instructions	U					
* 215	PAL	Pallet Information	0	1				
LOOP	ID - 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				
200			-	50				
	SDQ	Destination Quantity	0	50				
* 290	SDQ ETD		0 0	1				
* 290 * 300 * 310		Destination Quantity Excess Transportation						
* 290 * 300 * 310	ETD	Destination Quantity Excess Transportation Detail	0	1	<u>>1</u>	_	<u>.</u>	

		_	_				1111
* 325	CUR	Currency	0	1			
* 330	GF	Furnished Goods and Services	0	1			
* <u>335</u>	YNQ	Yes/No Question	0	10	. <u>.</u>	<u> </u>	
* LOOP I			_	_	<u>10</u>	_	
* 340	LM	Code Source Information	0	1			
* 350	LQ	Industry Code	Μ	100			
* LOOP I	D - V1	•			>1		
* 360	V1	Vessel Identification	Ō	1	<u></u>	-	- ••
* 370	R4	Port or Terminal	õ	- >1			
* 380	DTM	Date/Time Reference	Õ	>1			
LOOP ID			-	_	<u>200000</u>	<u>C2/010L</u>	
010	HL	Hierarchical Level	М	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			
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			Used
120	TD5	Carrier Details (Routing Sequence/Transit Time)	0	12			Used
* 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	D - LH1		_	_	<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	0	10			
* 160	PER	Numbers Administrative	0	5			

* 161	LHE	Communications Contact Empty Equipment Hazardous Material Information	0	1				►
* LOOP	ID - CLD			•	200	· · ·		א
* 170	CLD	Load Detail	Ō	1	_	-	-	א
* 180	REF	Reference Identification	0	200				r
* 185	DTP	Date or Time or Period	0	1				r
* 190	MAN	Marks and Numbers	0	>1				א
200	DTM	Date/Time Reference	0	10			Must use	
* 210	FOB	F.O.B. Related	0	1				- r
		Instructions						
* 215	PAL	Pallet Information	0	1				- N
* LOOP	ID - N1		_	_	200			א
* 220	N1	Name	Ō	1		_		N
* 230	N2	Additional Name	0	2				N
		Information						
* 240	N3	Address Information	0	2				N
* 250	N4	Geographic Location	0	1				N
* 260	REF	Reference Identification	0	12				N
* 270	PER	Administrative	0	3				N
		Communications Contact						
* 280	FOB	F.O.B. Related	0	1				
		Instructions						
* 290	SDQ	Destination Quantity	0	50				
* 300	ETD	Excess Transportation	0	1				1
* 240		Detail	0	4				
* 310		Currency	0	1	. 4			
* 320	ID - SAC SAC	Sarvias Dramation	ō	-	<u>>1</u>	-	-	
320	SAC	Service, Promotion, Allowance, or Charge Information	0	1				
* 325	CUR	Currency	0	1				r
* 330	GF	Furnished Goods and	0	1				י ⁻
		Services						
* 335	YNQ	Yes/No Question	0	10				_ N
* LOOP	ID - LM		_	_	<u>10</u>		<u>_</u>	N
* 340	LM	Code Source Information	Ō	1				א
* 350	LQ	Industry Code	Μ	100				N 1
* 1 0 0 0					. 4			¬ 、
* LOOP		Vaccal Idantification	-	-	<u>>1</u>	-	-	
000	V1	Vessel Identification	0	1				
* 370	R4	Port or Terminal	0	>1				
* 380	DTM	Date/Time Reference	0	>1				<u> </u>
Summa	arv:							
Pos	<u>ld</u>	Segment Name	Req	<u>Max Use</u>	Repeat	<u>Notes</u>	<u>Usage</u>	Pa
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>		N3/010	Used	<u>1 u</u>
020	SE	Transaction Set Trailer	M	1		110,010	Must use	
020	GE	Functional Group Trailer	M	1			Must use	
		Interchange Centrel		1			Must use	

Notes:

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

Μ

IEA

Interchange Control

Trailer

1

54

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

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
		Description: Code to identify the agency responses that is enclosed by the interchange h All 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.	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
		Description: Code to indicate whether data er production or information All valid standard codes are used.	iclosed	by this inte	erchange en	velope is test,
ISA16	l15	Component Element Separator	М		1/1	Must use
		Description: 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

Element Ref	t Sumr Id	nary: <u>Element Na</u>	me	Req	Type	<u>Min/Max</u>	Usage
GS01	479		Identifier Code	M	ID	2/2	Must use
		Description	: Code identifying a group of appl	ication re	elated trai	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	: Code identifying party sending ti	ransmiss	ion; code	es agreed to by	v trading partners
GS03	124	Application	Receiver's Code	М	AN	2/15	Must use
		partners	: Code identifying party receiving e: You should return the GS ID as			Ū.	
			for you to receive multiple IDs ov der will belong to only one GS ID.	er a rang	ge of purc	chase orders fi	rom us. Each
		Here are the	possible GS IDs:				
		"CRATEDOI "EUROMDE "EUROMDE	MES" - Crate and Barrel Domestic MREP" - Crate and Barrel Domest SIG" - Crate and Barrel Internatio SAGT" - Crate and Barrel Interna ST" - Crate and Barrel Custom	tic Rep nal	ent		
		"CB2DOMR "CB2INTL" -	S" - CB2 Domestic EP" - CB2 Domestic Rep · CB2 International GT" - CB2 International Agent				
			NADA" - Crate and Barrel Canada NREP" - Crate and Barrel Canada				
		"LONODDO "LONODMB "LONODMB	MES" - Land of Nod Domestic MREP" - Land of Nod Domestic R RK" - Land of Nod International AGT" - Land of Nod International . ST" - Land of Nod Custom	·			
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; or 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 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

 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	<u>ld</u>	Element Name	Req	Type	Min/Max	Usage
ST01	143	Transaction Set Identifier Code	Μ	ID	3/3	Must use
		Description: Code uniquely identifying a T All valid standard codes are used.	ransaction	Set		
ST02	329	Transaction Set Control Number	М	AN	4/9	Must use
		Description: Identifying control number the functional group assigned by the originator				ction 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).

Buyer Usage:

ST^856^000001

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
		Description: 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
		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 = mii	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^00^4451028^20071119^09340059

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 Qua	lifior	<u>Req</u> M	<u>Type</u> ID	<u>Min/Max</u> 3/3	<u>Usage</u> Must use
DTIMOT	374		ode specifying type of date or ti				wust use
		Description. Co	bue specifying type of date of th	ine, or i		anu ume	
		Code N	ame_				
		011 S	hipped				
DTM02	373	Date		Х	DT	8/8	Must use
		Description: Da	ate expressed as CCYYMMDD	1			
DTM03	337	Time		Х	ТМ	4/8	Used
	Description: Time expressed in 24-hour clock time as follows: HHMM, or HHMMSS, or HHMMSSD, or HHMMSSDD, where H = hours (00-23), M = minutes (00-59), S = integer seconds (00-59) and DD = decimal seconds; decimal seconds are expressed as follows: D = tenths (0-9) and DD = hundredths (00-99)						
		Buyer Usage: /	Required 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".

This is the actual date the product was shipped.

Example:

DTM^011^20071119^06005900

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:

<u>Pos</u>	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	Μ		200000	Must use

Example:

HL^1^^S

TD5^^2^ZCSU^M^CENTRAL STATES TRUCKING^CD TD3^TL^DOLT^2398734223^^^012002348703719 REF^BM^ZPUD5498754 REF^2I^Carrier Ref Nbr REF^CN^PRO Nbr REF^IRN^Importer Ref Ltr of Credit REF^PK^9875 REF^TF^Transfer Number 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^ST^CRATE and BARREL^92^191 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

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	<u>ld</u>	Element Name	Req	Type	<u>Min/Max</u>	<u>Usage</u>
HL01	628	Hierarchical ID Number	Μ	AN	1/12	Must use
		Description: 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
		Description: 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
		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	Element Na Packaging		<u>Req</u> O	<u>Type</u> AN	<u>Min/Max</u> 3/5	<u>Usage</u> Used
			: Code identifying the type of pack laterial; if the Data Element is used				
		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 : Number of units (pieces) of the la	X ading co	N0 mmodity	1/7	Used
			e: Total Number of shipping units	0	,	ags) for the sh	ipment.

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:

<u>Ref</u> TD502	<u>ld</u> 66	Element Nan Identification	<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 ty	/pe of tra	ansportat	ion for the ship	ment
TD505	387	originating ca	Name Air Motor (Common Carrier) Containerized Ocean Rail Best Way (Shippers Option) Private Parcel Service Air Express Less Than Trailer Load (LTL) Roadrailer Description: Used for shipmen rail/highway trailer Mutually defined Free-form description of the routi rrier's identity e: Carrier Name	Х	AN	1/35	Used
TD506	368	Shipment/Or	der Status Code	Х	ID	2/2	Used
			Code indicating the status of an tween the quantity ordered and the				
		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 Indition i	d with ot	her shipments.	It is very

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	n Code	<u>Req</u> X	<u>Type</u> ID	<u>Min/Max</u> 2/2	<u>Usage</u> Used		
		Description: Code iden	Description: Code identifying type of equipment used for shipment						
		•	t (Break Bulk) ot otherwise specified) cean						
TD302	206	Equipment Initial		0	AN	1/4	Used		
		Description: Prefix or a	Iphabetic part of an equ	uipment	unit's ide	entifying numb	er		
TD303	207	Equipment Number		Х	AN	1/10	Used		
		Description: Sequencir form for equipment num	•	quipmer	nt unit's ic	lentifying num	ber (pure numeric		
TD309	225	Seal Number		0	AN	2/15	Used		
		Description: Unique nu	mber on seal used to c	lose a s	hipment				

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:

<u>Ref</u> <u>Id</u> REF01 128		Element Na Reference	ame Identification Qualifier	<u>Req</u> M	Type ID	<u>Min/Max</u> 2/3	<u>Usage</u> Must use			
		Descriptio	Description: Code qualifying the Reference Identification							
		<u>Code</u> 2l	<u>Name</u> Tracking Number							
			Buyer Usage: Any standard or proprietary c Lading Number (use code BN							
		BM	Bill of Lading Number Buyer Usage: Bill of Lading Number is requ	ired by bi	ıyer.					
		CN	Carrier's Reference Number (P	RO/Invoi	ce)					
		TF	Transfer Number							
		IRN	Importer's Reference Number t	o Letter o	of Credit					
			Description: Letter of credit re references the bank's letter of			, ,	r; cross-			
REF02	127	Reference	Identification	х	AN	1/30	Used			
		Descriptio	n: Reference information as define	ed for a p	articular	Transaction Se	et 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^ZPUD7774030 REF^IRN^SVB00IS

DTN	1	Date/T		Pos: 200 Detai Loop: HL	Max: 10 I - Optional Elements: 2				
User Optio Purpose: ⊺		e): Used / pertinent date	es and times						
Element	Sumr	nary:							
<u>Ref</u> DTM01	<u>ld</u> 374	<u>Element Nar</u> Date/Time Q		<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								
		<u>Code</u> 161	<u>Name</u> Loaded on Vessel						
			Buyer Usage: Date that goods are loaded at	the Port	t of Loadi	ng or on a don	nestic truck.		
DTM02	373	Date		х	DT	8/8	Used		
		Description:	Date expressed as CCYYMMDE)					
2. C0403	305 - At I 3 - If DTN	east one of DT //04 is present,	M02, DTM03 or DTM05 is require then DTM03 is required. TM06 is present, then the other i		ed.				

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 Description: <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:

<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

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 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:

	. oum	inary:							
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							
		Buyer Usage: Only the First 30 characters she ignored.	ould be	used - ar	ny characters a	fter that will be			
N302	166	Address Information	0	AN	1/55	Used			
		Description: Address information							
		Buyer Usage: Only the First 30 characters she ignored.	ould be	used - ar	ny characters a	fter that will be			

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:

<u>Ref</u> N401	<u>ld</u> 19	<u>Element Name</u> City Name	<u>Req</u> 0	<u>Type</u> AN	<u>Min/Max</u> 2/30	<u>Usage</u> Used			
11401	15	Description: Free-form text for city name	_						
		Buyer Usage: Only the first 35 characters sho ignored.	uld be ı	used - an	y characters af	ter 35 will be			
N402	156	State or Province Code	0	ID	2/2	Used			
		Description: Code (Standard State/Province) Buyer Usage: <i>This should either be a US state code or Coun</i>							
		http://www.unece.org/cefact/locode/service/sur Only 2 characters for a Country Sub-Entity coo code is 3 characters.			.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)	l zone (code excl	uding punctuat	ion and blanks			
N404	26	Country Code	0	ID	2/3	Used			
		Description: Code identifying the country Buyer Usage: 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 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: 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 PER03 365 **Communication Number Qualifier** Х ID 2/2 Used **Description:** Code identifying the type of communication number Code Name ΕM **Electronic Mail** FΧ Facsimile ΤE Telephone Х 1/80 PER04 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 N1_01 = "SF" and Not Used when N1_01 = "ST". Require at least one communication qualifier and number if segment used.

Example:

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

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
010	HL	Hierarchical Level	M	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^9996546 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	<u>ld</u>	Element Name	Req	Type	<u>Min/Max</u>	<u>Usage</u>	
HL01	628	Hierarchical ID Number	М	AN	1/12	Must use	
		Description: 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	
		Description: 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					
		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	Req	Туре	Min/Max	Usage
PRF01	324	Purchase Order Number	М	AN	1/22	Must use
	Departmentions, Islandificing, assumbly a few Dur	ahaaa Oudau a	a a lava a al k			

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^9996546

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:

_iomont oummury.								
Ref	ld	Element Name	Req	Type	Min/Max	<u>Usage</u>		
REF01	128	Reference Identification Qualifier	М	ID	2/3	Must use		
		Description: Code qualifying the Reference Identification						
		CodeNameIAInternal Vendor Number						
REF02	127	Reference Identification	М	AN	1/30	Must use		
		Description: Reference information as define by the Reference Identification Qualifier	ed for a p	articular	Transaction Se	et 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.

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	<u>ld</u>	Segment Name	Req	Max Use	Repeat	Usage
010	HL	Hierarchical Level	Μ	1		Must use
190	MAN	Marks and Numbers	0	>1		Used
010		Loop HL	Μ		200000	Must use

Example:

HL^3^2^P MAN^W^01100014480000001656 MAN^GM^00000340860075232433

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	Μ	AN	1/12	Must use
		Description: 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
		Description: 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^3^2^P

MAN Marks and Numbers

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

1/48

AN

M

Must use

User Option (Usage): Used

Purpose: To indicate identifying marks and numbers for shipping containers

Element Summary:

lement	Sumn	hary:							
Ref	ld	Element Nan	<u>1e</u>	Req	Type	Min/Max	<u>Usage</u>		
MAN01	88	Marks and N	umbers Qualifier	М	ID	1/2	Must use		
		Description: Code specifying the application or source of Marks and Numbers (87)							
		<u>Code</u>	<u>Name</u>						
		W	Pallet Number						
			Buyer Usage:						
			If carton/containers are palletiz	ed:					
			UCC/EAN-128 Serial Shipping Code (SSCC-18) for each palle			rs or on.			
		GM	SSCC-18 and Application Identif	ier					
			Buyer Usage: UCC/EAN-128 Serial Shipping Code (SSCC-18) for individual						

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

Syntax Rules:

MAN02 87

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

Marks and Numbers

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 example depicts a carton on a pallet. Each carton will need to reference the pallet ID that it is on.

MAN^W^01100014480000001656 MAN^GM^00000340860075232433

This example depicts a non-palletized carton:

MAN^GM^00000340860075232433

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:

Pos	ld	Segment Name	Req	Max Use	<u>Repeat</u>	<u>Usage</u>
010	HL	Hierarchical Level	Μ	1		Must use
020	LIN	Item Identification	0	1		Must use
030	SN1	Item Detail (Shipment)	0	1		Used
060	PO4	Item Physical Details	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

Example:

HL^4/3^I LIN^PL^1/IN/396109 SN1^30^EA PO4/3^^^10 TD1^CTN90/3^^G^52^LB TD1^CTN90/3^^N/45^LB TD5^^CC DTM^068^20071119 HL^5/3^I LIN^PL^10/IN/396745 SN1^100^EA PO4/5^^CC TD1^CTN90/5^^G^30^LB TD1^CTN90/5^^N/25^LB DTM^068^20071119

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	nary:						
Ref	<u>ld</u>	Element Name	Req	Type	<u>Min/Max</u>	<u>Usage</u>		
HL01	628	Hierarchical ID Number	М	AN	1/12	Must use		
		Description: 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		
		Description: 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						
		Code Name I Item						

Comments:

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

Example:

HL^4^3^I

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	Juin	nary.						
<u>Ref</u> LIN02	<u>ld</u> 235	Element Nar 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 ice ID (234)	e of the d	escriptive	e number used	l in	
		<u>Code</u> PL	Name Purchaser's Order Line Number Buyer Usage: Original PO Line Item Number 850.		d by Buy	er. Must match	n 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: Code identifying the type/source of the descriptive number used in Product/Service ID (234)						
		<u>Code</u> IN	<u>Name</u> Buyer's Item Number Buyer Usage: 6 digit SKU number					
LIN05	234	Product/Server	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	
		Description: Product/Serv	Code identifying the type/source ice ID (234)	e of the d	escriptive	e number usec	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:							
		er LIN04 or LIN	105 is present, then the other is r	equired.				
			107 is present, then the other is r	-				
			109 is present, then the other is r	-				
			I11 is present, then the other is r	-				
			I13 is present, then the other is r	-				
			115 is present, then the other is r	-				
			I17 is present, then the other is r	-				

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^396109^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:

	Ounn	i ai y i					
Ref	ld	Element Nar	<u>ne</u>	Req	Type	<u>Min/Max</u>	Usage
SN102	382	Number of L	Inits Shipped	М	R	1/10	Must use
		Description: transaction s	Numeric value of units shipped ir et	n manufa	acturer's	shipping units	for a line item or
SN103	355	Unit or Basi	s 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							
		<u>Code</u>	Name				
		EA	Each				
Svntav I	Sulpe						

Syntax Rules:

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

Semantics:

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

Comments:

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

Example:

Quantity of the item shipped in this pack

SN1^^30^EA

PO4 Item Physical Details

Pos: 060 Max: 1 Detail - Optional Loop: HL Elements: 2

User Option (Usage): Used

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

Element Summary:

<u>Ref</u> PO401	<u>ld</u> 356	<u>Element Name</u> Pack	<u>Req</u> O	<u>Type</u> N0	<u>Min/Max</u> 1/6	<u>Usage</u> Used		
		Description: The number of inner containers, containers, per outer container	or numt	per of eac	ches if there are	no inner		
		Buyer Usage: Number of inner packs per carton. If the PO specified the SKU has a carton master pack of 30 and an inner pack of 10 then this element should be 3 (30/10 = 3 inner cartons).						
PO414	810	Inner Pack Description: The number of eaches per inner	0 contain	N0 er	1/6	Used		
		Buyer Usage: The number of pieces in each in						
		f the PO specified the SKU has a carton master pack of 30 and an inner pack of 10 then this						

Syntax Rules:

1. P0203 - If either PO402 or PO403 is present, then the other is required.

element should be 10 (10 pieces per inner carton).

- 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:

The following example shows that each carton has three inner packs and each pack has 10 pieces in it. This represents a total of 30 pieces shipped in the carton.

PO4^3^^^^10

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:

<u>Ref</u> TD101	<u>Id</u> 103	Element Nar Packaging C		Req O	<u>Type</u> <u>N</u> AN	<u>/lin/Max</u> 3/5	<u>Usage</u> Used
			Code identifying the type of packa aterial; if the Data Element is used				t 2:
		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 Quar	•	Х	N0	1/7	Used
	Description: Number of units (pieces) of the lading commodity Buyer Usage: <i>Total Number of inner packs in the carton/container Should match PO401</i> <i>quantity.</i>						
TD106	187	Weight Qual	ifier	0	ID	1/2	Used
		Description: Code G N	Code defining the type of weight Name Gross Weight Actual Net Weight				
TD107	81	Weight		Х	R	1/10	Used
			Numeric value of weight : Total weight for all inner packs in	n the ca	rton/contaii	ner.	
TD108	355		s for Measurement Code	х	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					
Syntax R	lules:	<u>Code</u> KG LB	<u>Name</u> Kilogram Pound				

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

Example:

There are two inner packs in the carton and each inner pack has a gross weight of 26lbs and net weight of 22.5 lbs.

TD1^CTN90^2^^^G^52^LB TD1^CTN90^2^^^N^45^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	ld	Element Name	Req	<u>Type</u>	<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

Code Name CC Shipm

Shipment Complete on (Date)

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^068^20071119

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:

	. •	i ai yi					
Ref	ld	Element Name	Req	Type	Min/Max	<u>Usage</u>	
CTT01	354	Number of Line Items	М	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.a. a						

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^14

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		
		Description: 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		
		Description: 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				
		Description: Total number of transaction sets included in the functional group or interchange (transmission) group terminated by the trailer containing this data element								
GE02	28	Group Control Number	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:

Ref	ld	Element Name	Req	Type	<u>Min/Max</u>	<u>Usage</u>		
IEA01	l16	Number of Included Functional Groups	Μ	N0	1/5	Must use		
		Description: A count of the number of function	onal 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

Complex Example to Demonstrate SOPI Structure Capabilities

The following example depicts two pallets, two cartons on each pallet with three of the cartons containing two items.

Purchase Order - 9996546 Pallet 1 - 01100014480000001656 Carton 1 - 00000340860075232433 Item 1 - 396109 Item 2 - 396745 Carton 2 - 00000340860075232455 Item 1 - 396354 Purchase Order - 2450926 Pallet 2 - 01100014480000001771 Carton 1 - 00000340860074989060 Item 1 - 675849 Item 2 - 677205

Carton 2 - 00000340860074989046 Item 1 - 677205 Item 2 - 680095

PLEASE NOTE that a purchase order should only have ONE item per carton and that this structure was ONLY built for flexibility related to special use circumstances, future applicability and internal use.

HL^2^1^O PRF^9996546 REF^IA^999999 HL^3^2^P MAN^W^01100014480000001656 MAN^GM^00000340860075232433 HL^4^3^I LIN^^PL^1^IN^396109 SN1^^30^EA PO4^3^^^^10 TD1^CTN90^3^^^G^52^LB TD1^CTN90^3^^^N^45^LB TD5^^CC DTM^068^20071119 HL^5^3^I LIN^^PL^10^IN^396745

SN1^^100^EA PO4^5^^^20 TD1^CTN90^5^^^G^30^LB TD1^CTN90^5^^^N^25^LB DTM^068^20071119 HL^6^2^P MAN^W^01100014480000001656 MAN^GM^00000340860075232455 HL^7^6^I LIN^^PL^2^IN^396354 SN1^^144^EA PO4^4^^^^36 TD1^CTN90^4^^^G^280.5^LB TD1^CTN90^4^^^N^275^LB DTM^068^20071119 HL^8^1^O PRF^2450926 REF^IA^999999 HL^9^8^P MAN^W^01100014480000001771 MAN^GM^00000340860074989060 HL^10^9^I LIN^^PL^3^IN^675849 SN1^^42^EA PO4^1^^^^42 TD1^CTN90^1^^^G^312.5^LB TD1^CTN90^1^^^N^275^LB DTM^068^20071119 HL^11^9^I LIN^^PL^5^IN^677205 SN1^^30^EA PO4^2^^^^15 TD1^CTN90^2^^^G^23^LB TD1^CTN90^2^^^N^22.5^LB DTM^068^20071119 HL^12^8^P MAN^W^01100014480000001771 MAN^GM^00000340860074989046 HL^13^12^I LIN^^PL^5^IN^677205 SN1^^30^EA PO4^1^^^^30 TD1^CTN90^1^^^G^23^LB

TD1^CTN90^1^^N^22.5^LB DTM^068^20071119 HL^14^12^I LIN^^PL^5^IN^680095 SN1^40^EA PO4^4^^^10 TD1^CTN90^4^^G^62.5^LB TD1^CTN90^4^^N^61^LB DTM^068^20071119

The next page contains a visual representation of the previous data example

