



856 Ship Notice/Manifest - Canada

VICS EDI

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Ship Notice/Manifest - Canada

Functional Group=SH

Purpose: This X12 Transaction Set 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:

Pos	Id	Segment Name	Req	Max Use	Repeat	Notes	Usage	Page
0100	ST	Transaction Set Header	M	1			Must use	12
0200	BSN	Beginning Segment for Ship Notice	M	1			Must use	13
* 0400	DTM	Date/Time Reference	O	10				N/A

Detail:

Pos	Id	Segment Name	Req	Max Use	Repeat	Notes	Usage	Page
LOOP ID - HL					200000	C2/0100L		15
0100	HL	Hierarchical Level	M	1		C2/0100	Must use	16
* 0200	LIN	Item Identification	O	1				N/A
* 0300	SN1	Item Detail (Shipment)	O	1				N/A
* 0400	SLN	Subline Item Detail	O	1000				N/A
* 0500	PRF	Purchase Order Reference	O	1				N/A
* 0600	PO4	Item Physical Details	O	1				N/A
* 0700	PID	Product/Item Description	O	200				N/A
* 0800	MEA	Measurements	O	40				N/A
* 0900	PWK	Paperwork	O	25				N/A
* 1000	PKG	Marking, Packaging, Loading	O	25				N/A
1100	TD1	Carrier Details (Quantity and Weight)	O	20			Used	17
1200	TD5	Carrier Details (Routing Sequence/Transit Time)	O	12			Used	19
LOOP ID - TD3					12			21
1300	TD3	Carrier Details (Equipment)	O	1			Used	22
* 1350	AT9	Trailer or Container Dimension and Weight	O	1				N/A
1400	TD4	Carrier Details (Special Handling, or Hazardous Materials, or Both)	O	5			Used	23
* 1450	TSD	Trailer Shipment Details	O	1				N/A
1500	REF	Reference Information	O	>1			Used	24
1510	PER	Administrative Communications Contact	O	3			Used	25
* LOOP ID - LH1					100			N/A
* 1520	LH1	Hazardous Identification Information	O	1				N/A

* 1530	LH2	Hazardous Classification Information	O	4		N/A	
* 1540	LH3	Hazardous Material Shipping Name Information	O	12		N/A	
* 1550	LFH	Free-form Hazardous Material Information	O	20		N/A	
* 1560	LEP	EPA Required Data	O	>1		N/A	
* 1570	LH4	Canadian Dangerous Requirements	O	4		N/A	
* 1580	LHT	Transborder Hazardous Requirements	O	3		N/A	
* 1590	LHR	Hazardous Material Identifying Reference Numbers	O	10		N/A	
* 1600	PER	Administrative Communications Contact	O	5		N/A	
* 1610	LHE	Empty Equipment Hazardous Material Information	O	1		N/A	
* LOOP ID - CLD						200	N/A
* 1700	CLD	Load Detail	O	1		N/A	
* 1800	REF	Reference Information	O	200		N/A	
* 1850	DTP	Date or Time or Period	O	1		N/A	
* 1900	MAN	Marks and Numbers Information	O	>1		N/A	
2000	DTM	Date/Time Reference	O	10	Used	27	
* 2100	FOB	F.O.B. Related Instructions	O	1		N/A	
* 2150	PAL	Pallet Type and Load Characteristics	O	1		N/A	
LOOP ID - N1						200	28
2200	N1	Party Identification	O	1	Used	29	
2300	N2	Additional Name Information	O	2	Used	31	
2400	N3	Party Location	O	2	Used	32	
2500	N4	Geographic Location - Shipment	O	1	Used	33	
* 2600	REF	Reference Information	O	12		N/A	
* 2700	PER	Administrative Communications Contact	O	3		N/A	
* 2800	FOB	F.O.B. Related Instructions	O	1		N/A	
* 2900	SDQ	Destination Quantity	O	50		N/A	
* 3000	ETD	Excess Transportation Detail	O	1		N/A	
* 3100	CUR	Currency	O	1		N/A	
* LOOP ID - SAC						≥1	N/A
* 3200	SAC	Service, Promotion, Allowance, or Charge Information	O	1		N/A	
* 3250	CUR	Currency	O	1		N/A	
* 3300	GF	Furnished Goods and Services	O	1		N/A	
* 3350	YNQ	Yes/No Question	O	10		N/A	
* LOOP ID - LM						10	N/A
* 3400	LM	Code Source Information	O	1		N/A	
* 3500	LQ	Industry Code	M	100		N/A	

Identification							
* LOOP ID - V1					≥1		N/A
* 3600	V1	Vessel Identification	O	1			N/A
* 3700	R4	Port or Terminal	O	>1			N/A
* 3800	DTM	Date/Time Reference	O	>1			N/A
LOOP ID - HL					200000	C2/0100L	34
0100	HL	Hierarchical Level - Unit Load	O	1		C2/0100 Used	35
* 0200	LIN	Item Identification	O	1			N/A
* 0300	SN1	Item Detail (Shipment)	O	1			N/A
* 0400	SLN	Subline Item Detail	O	1000			N/A
* 0500	PRF	Purchase Order Reference	O	1			N/A
* 0600	PO4	Item Physical Details	O	1			N/A
* 0700	PID	Product/Item Description	O	200			N/A
* 0800	MEA	Measurements	O	40			N/A
* 0900	PWK	Paperwork	O	25			N/A
* 1000	PKG	Marking, Packaging, Loading	O	25			N/A
* 1100	TD1	Carrier Details (Quantity and Weight)	O	20			N/A
* 1200	TD5	Carrier Details (Routing Sequence/Transit Time)	O	12			N/A
LOOP ID - TD3					12		36
1300	TD3	Carrier Details (Equipment)	O	1		Used	37
* 1350	AT9	Trailer or Container Dimension and Weight	O	1			N/A
* 1400	TD4	Carrier Details (Special Handling, or Hazardous Materials, or Both)	O	5			N/A
* 1450	TSD	Trailer Shipment Details	O	1			N/A
* 1500	REF	Reference Information	O	>1			N/A
* 1510	PER	Administrative Communications Contact	O	3			N/A
* LOOP ID - LH1					100		N/A
* 1520	LH1	Hazardous Identification Information	O	1			N/A
* 1530	LH2	Hazardous Classification Information	O	4			N/A
* 1540	LH3	Hazardous Material Shipping Name Information	O	12			N/A
* 1550	LFH	Free-form Hazardous Material Information	O	20			N/A
* 1560	LEP	EPA Required Data	O	>1			N/A
* 1570	LH4	Canadian Dangerous Requirements	O	4			N/A
* 1580	LHT	Transborder Hazardous Requirements	O	3			N/A
* 1590	LHR	Hazardous Material Identifying Reference Numbers	O	10			N/A
* 1600	PER	Administrative Communications Contact	O	5			N/A
* 1610	LHE	Empty Equipment	O	1			N/A

Hazardous Material Information							
* LOOP ID - CLD					200		N/A
* 1700	CLD	Load Detail	O	1			N/A
* 1800	REF	Reference Information	O	200			N/A
* 1850	DTP	Date or Time or Period	O	1			N/A
1900	MAN	Marks and Numbers Information	O	>1		Used	38
* 2000	DTM	Date/Time Reference	O	10			N/A
* 2100	FOB	F.O.B. Related Instructions	O	1			N/A
* 2150	PAL	Pallet Type and Load Characteristics	O	1			N/A
* LOOP ID - N1					200		N/A
* 2200	N1	Party Identification	O	1			N/A
* 2300	N2	Additional Name Information	O	2			N/A
* 2400	N3	Party Location	O	2			N/A
* 2500	N4	Geographic Location	O	1			N/A
* 2600	REF	Reference Information	O	12			N/A
* 2700	PER	Administrative Communications Contact	O	3			N/A
* 2800	FOB	F.O.B. Related Instructions	O	1			N/A
* 2900	SDQ	Destination Quantity	O	50			N/A
* 3000	ETD	Excess Transportation Detail	O	1			N/A
* 3100	CUR	Currency	O	1			N/A
* LOOP ID - SAC					≥1		N/A
* 3200	SAC	Service, Promotion, Allowance, or Charge Information	O	1			N/A
* 3250	CUR	Currency	O	1			N/A
* 3300	GF	Furnished Goods and Services	O	1			N/A
* 3350	YNQ	Yes/No Question	O	10			N/A
* LOOP ID - LM					10		N/A
* 3400	LM	Code Source Information	O	1			N/A
* 3500	LQ	Industry Code Identification	M	100			N/A
* LOOP ID - V1					≥1		N/A
* 3600	V1	Vessel Identification	O	1			N/A
* 3700	R4	Port or Terminal	O	>1			N/A
* 3800	DTM	Date/Time Reference	O	>1			N/A
LOOP ID - HL					200000	C2/0100L	39
0100	HL	Hierarchical Level	M	1		C2/0100	Must use
* 0200	LIN	Item Identification	O	1			N/A
* 0300	SN1	Item Detail (Shipment)	O	1			N/A
* 0400	SLN	Subline Item Detail	O	1000			N/A
0500	PRF	Purchase Order Reference	O	1			Used
* 0600	PO4	Item Physical Details	O	1			N/A
* 0700	PID	Product/Item Description	O	200			N/A
* 0800	MEA	Measurements	O	40			N/A
* 0900	PWK	Paperwork	O	25			N/A
* 1000	PKG	Marking, Packaging, Loading	O	25			N/A

1100	TD1	Carrier Details (Quantity and Weight)	O	20	Used	42	
* 1200	TD5	Carrier Details (Routing Sequence/Transit Time)	O	12		N/A	
* LOOP ID - TD3						12	N/A
* 1300	TD3	Carrier Details (Equipment)	O	1		N/A	
* 1350	AT9	Trailer or Container Dimension and Weight	O	1		N/A	
* 1400	TD4	Carrier Details (Special Handling, or Hazardous Materials, or Both)	O	5		N/A	
* 1450	TSD	Trailer Shipment Details	O	1		N/A	
1500	REF	Reference Information	O	>1	Used	44	
* 1510	PER	Administrative Communications Contact	O	3		N/A	
* LOOP ID - LH1						100	N/A
* 1520	LH1	Hazardous Identification Information	O	1		N/A	
* 1530	LH2	Hazardous Classification Information	O	4		N/A	
* 1540	LH3	Hazardous Material Shipping Name Information	O	12		N/A	
* 1550	LFH	Free-form Hazardous Material Information	O	20		N/A	
* 1560	LEP	EPA Required Data	O	>1		N/A	
* 1570	LH4	Canadian Dangerous Requirements	O	4		N/A	
* 1580	LHT	Transborder Hazardous Requirements	O	3		N/A	
* 1590	LHR	Hazardous Material Identifying Reference Numbers	O	10		N/A	
* 1600	PER	Administrative Communications Contact	O	5		N/A	
* 1610	LHE	Empty Equipment Hazardous Material Information	O	1		N/A	
* LOOP ID - CLD						200	N/A
* 1700	CLD	Load Detail	O	1		N/A	
* 1800	REF	Reference Information	O	200		N/A	
* 1850	DTP	Date or Time or Period	O	1		N/A	
* 1900	MAN	Marks and Numbers Information	O	>1		N/A	
* 2000	DTM	Date/Time Reference	O	10		N/A	
* 2100	FOB	F.O.B. Related Instructions	O	1		N/A	
* 2150	PAL	Pallet Type and Load Characteristics	O	1		N/A	
LOOP ID - N1						200	45
2200	N1	Party Identification	O	1	Used	46	
2300	N2	Additional Name Information	O	2	Used	47	
2400	N3	Party Location	O	2	Used	48	
2500	N4	Geographic Location	O	1	Used	49	
* 2600	REF	Reference Information	O	12		N/A	

* 2700	PER	Administrative Communications Contact	O	3				N/A
* 2800	FOB	F.O.B. Related Instructions	O	1				N/A
* 2900	SDQ	Destination Quantity	O	50				N/A
* 3000	ETD	Excess Transportation Detail	O	1				N/A
* 3100	CUR	Currency	O	1				N/A
* LOOP ID - SAC					≥1			N/A
* 3200	SAC	Service, Promotion, Allowance, or Charge Information	O	1				N/A
* 3250	CUR	Currency	O	1				N/A
* 3300	GF	Furnished Goods and Services	O	1				N/A
* 3350	YNQ	Yes/No Question	O	10				N/A
* LOOP ID - LM					10			N/A
* 3400	LM	Code Source Information	O	1				N/A
* 3500	LQ	Industry Code Identification	M	100				N/A
* LOOP ID - V1					≥1			N/A
* 3600	V1	Vessel Identification	O	1				N/A
* 3700	R4	Port or Terminal	O	>1				N/A
* 3800	DTM	Date/Time Reference	O	>1				N/A
LOOP ID - HL					200000	C2/0100L		50
0100	HL	Hierarchical Level	O	1		C2/0100	Used	51
* 0200	LIN	Item Identification	O	1				N/A
* 0300	SN1	Item Detail (Shipment)	O	1				N/A
* 0400	SLN	Subline Item Detail	O	1000				N/A
* 0500	PRF	Purchase Order Reference	O	1				N/A
* 0600	PO4	Item Physical Details	O	1				N/A
* 0700	PID	Product/Item Description	O	200				N/A
* 0800	MEA	Measurements	O	40				N/A
* 0900	PWK	Paperwork	O	25				N/A
* 1000	PKG	Marking, Packaging, Loading	O	25				N/A
* 1100	TD1	Carrier Details (Quantity and Weight)	O	20				N/A
* 1200	TD5	Carrier Details (Routing Sequence/Transit Time)	O	12				N/A
* LOOP ID - TD3					12			N/A
* 1300	TD3	Carrier Details (Equipment)	O	1				N/A
* 1350	AT9	Trailer or Container Dimension and Weight	O	1				N/A
* 1400	TD4	Carrier Details (Special Handling, or Hazardous Materials, or Both)	O	5				N/A
* 1450	TSD	Trailer Shipment Details	O	1				N/A
* 1500	REF	Reference Information	O	>1				N/A
* 1510	PER	Administrative Communications Contact	O	3				N/A
* LOOP ID - LH1					100			N/A
* 1520	LH1	Hazardous Identification Information	O	1				N/A
* 1530	LH2	Hazardous Classification	O	4				N/A

		Information				
* 1540	LH3	Hazardous Material Shipping Name Information	O	12		N/A
* 1550	LFH	Free-form Hazardous Material Information	O	20		N/A
* 1560	LEP	EPA Required Data	O	>1		N/A
* 1570	LH4	Canadian Dangerous Requirements	O	4		N/A
* 1580	LHT	Transborder Hazardous Requirements	O	3		N/A
* 1590	LHR	Hazardous Material Identifying Reference Numbers	O	10		N/A
* 1600	PER	Administrative Communications Contact	O	5		N/A
* 1610	LHE	Empty Equipment Hazardous Material Information	O	1		N/A
* LOOP ID - CLD						200
* 1700	CLD	Load Detail	O	1		N/A
* 1800	REF	Reference Information	O	200		N/A
* 1850	DTP	Date or Time or Period	O	1		N/A
1900	MAN	Marks and Numbers Information	O	>1	Used	52
* 2000	DTM	Date/Time Reference	O	10		N/A
* 2100	FOB	F.O.B. Related Instructions	O	1		N/A
2150	PAL	Pallet Type and Load Characteristics	O	1	Used	53
* LOOP ID - N1						200
* 2200	N1	Party Identification	O	1		N/A
* 2300	N2	Additional Name Information	O	2		N/A
* 2400	N3	Party Location	O	2		N/A
* 2500	N4	Geographic Location	O	1		N/A
* 2600	REF	Reference Information	O	12		N/A
* 2700	PER	Administrative Communications Contact	O	3		N/A
* 2800	FOB	F.O.B. Related Instructions	O	1		N/A
* 2900	SDQ	Destination Quantity	O	50		N/A
* 3000	ETD	Excess Transportation Detail	O	1		N/A
* 3100	CUR	Currency	O	1		N/A
* LOOP ID - SAC						>1
* 3200	SAC	Service, Promotion, Allowance, or Charge Information	O	1		N/A
* 3250	CUR	Currency	O	1		N/A
* 3300	GF	Furnished Goods and Services	O	1		N/A
* 3350	YNQ	Yes/No Question	O	10		N/A
* LOOP ID - LM						10
* 3400	LM	Code Source Information	O	1		N/A
* 3500	LQ	Industry Code Identification	M	100		N/A

* LOOP ID - V1					≥1			
* 3600	V1	Vessel Identification	O	1				N/A
* 3700	R4	Port or Terminal	O	>1				N/A
* 3800	DTM	Date/Time Reference	O	>1				N/A
LOOP ID - HL					200000	C2/0100L		
0100	HL	Hierarchical Level	M	1		C2/0100	Must use	55
0200	LIN	Item Identification	O	1			Used	56
0300	SN1	Item Detail (Shipment)	O	1			Used	57
* 0400	SLN	Subline Item Detail	O	1000				59
* 0500	PRF	Purchase Order Reference	O	1				N/A
* 0600	PO4	Item Physical Details	O	1				N/A
* 0700	PID	Product/Item Description	O	200				N/A
* 0800	MEA	Measurements	O	40				N/A
* 0900	PWK	Paperwork	O	25				N/A
* 1000	PKG	Marking, Packaging, Loading	O	25				N/A
* 1100	TD1	Carrier Details (Quantity and Weight)	O	20				N/A
* 1200	TD5	Carrier Details (Routing Sequence/Transit Time)	O	12				N/A
* LOOP ID - TD3					12			
* 1300	TD3	Carrier Details (Equipment)	O	1				N/A
* 1350	AT9	Trailer or Container Dimension and Weight	O	1				N/A
* 1400	TD4	Carrier Details (Special Handling, or Hazardous Materials, or Both)	O	5				N/A
* 1450	TSD	Trailer Shipment Details	O	1				N/A
* 1500	REF	Reference Information	O	>1				N/A
* 1510	PER	Administrative Communications Contact	O	3				N/A
* LOOP ID - LH1					100			
* 1520	LH1	Hazardous Identification Information	O	1				N/A
* 1530	LH2	Hazardous Classification Information	O	4				N/A
* 1540	LH3	Hazardous Material Shipping Name Information	O	12				N/A
* 1550	LFH	Free-form Hazardous Material Information	O	20				N/A
* 1560	LEP	EPA Required Data	O	>1				N/A
* 1570	LH4	Canadian Dangerous Requirements	O	4				N/A
* 1580	LHT	Transborder Hazardous Requirements	O	3				N/A
* 1590	LHR	Hazardous Material Identifying Reference Numbers	O	10				N/A
* 1600	PER	Administrative Communications Contact	O	5				N/A
* 1610	LHE	Empty Equipment Hazardous Material Information	O	1				N/A

* LOOP ID - CLD					200			
* 1700	CLD	Load Detail	O	1				N/A
* 1800	REF	Reference Information	O	200				N/A
* 1850	DTP	Date or Time or Period	O	1				N/A
1900	MAN	Marks and Numbers Information	O	>1		Used		60
* 2000	DTM	Date/Time Reference	O	10				N/A
* 2100	FOB	F.O.B. Related Instructions	O	1				N/A
* 2150	PAL	Pallet Type and Load Characteristics	O	1				N/A
* LOOP ID - N1					200			
* 2200	N1	Party Identification	O	1				N/A
* 2300	N2	Additional Name Information	O	2				N/A
* 2400	N3	Party Location	O	2				N/A
* 2500	N4	Geographic Location	O	1				N/A
* 2600	REF	Reference Information	O	12				N/A
* 2700	PER	Administrative Communications Contact	O	3				N/A
* 2800	FOB	F.O.B. Related Instructions	O	1				N/A
* 2900	SDQ	Destination Quantity	O	50				N/A
* 3000	ETD	Excess Transportation Detail	O	1				N/A
* 3100	CUR	Currency	O	1				N/A
* LOOP ID - SAC					≥1			
* 3200	SAC	Service, Promotion, Allowance, or Charge Information	O	1				N/A
* 3250	CUR	Currency	O	1				N/A
* 3300	GF	Furnished Goods and Services	O	1				N/A
* 3350	YNQ	Yes/No Question	O	10				N/A
* LOOP ID - LM					10			
* 3400	LM	Code Source Information	O	1				N/A
* 3500	LQ	Industry Code Identification	M	100				N/A
* LOOP ID - V1					≥1			
* 3600	V1	Vessel Identification	O	1				N/A
* 3700	R4	Port or Terminal	O	>1				N/A
* 3800	DTM	Date/Time Reference	O	>1				N/A
LOOP ID - HL					200000	C2/0100L		
0100	HL	Hierarchical Level	M	1		C2/0100	Must use	61
0200	LIN	Item Identification	O	1			Used	62
0300	SN1	Item Detail (Shipment)	O	1			Used	63
* 0400	SLN	Subline Item Detail	O	1000				66
* 0500	PRF	Purchase Order Reference	O	1				N/A
0600	PO4	Item Physical Details	O	1			Used	N/A
0700	PID	Product/Item Description	O	200			Used	67
* 0800	MEA	Measurements	O	40				72
* 0900	PWK	Paperwork	O	25				N/A
* 1000	PKG	Marking, Packaging, Loading	O	25				N/A
* 1100	TD1	Carrier Details (Quantity and Weight)	O	20				N/A

* 1200	TD5	Carrier Details (Routing Sequence/Transit Time)	O	12		N/A
* LOOP ID - TD3				12		N/A
* 1300	TD3	Carrier Details (Equipment)	O	1		N/A
* 1350	AT9	Trailer or Container Dimension and Weight	O	1		N/A
1400	TD4	Carrier Details (Special Handling, or Hazardous Materials, or Both)	O	5	Used	73
* 1450	TSD	Trailer Shipment Details	O	1		N/A
1500	REF	Reference Information	O	>1	Used	74
* 1510	PER	Administrative Communications Contact	O	3		N/A
* LOOP ID - LH1				100		N/A
* 1520	LH1	Hazardous Identification Information	O	1		N/A
* 1530	LH2	Hazardous Classification Information	O	4		N/A
* 1540	LH3	Hazardous Material Shipping Name Information	O	12		N/A
* 1550	LFH	Free-form Hazardous Material Information	O	20		N/A
* 1560	LEP	EPA Required Data	O	>1		N/A
* 1570	LH4	Canadian Dangerous Requirements	O	4		N/A
* 1580	LHT	Transborder Hazardous Requirements	O	3		N/A
* 1590	LHR	Hazardous Material Identifying Reference Numbers	O	10		N/A
* 1600	PER	Administrative Communications Contact	O	5		N/A
* 1610	LHE	Empty Equipment Hazardous Material Information	O	1		N/A
* LOOP ID - CLD				200		N/A
* 1700	CLD	Load Detail	O	1		N/A
* 1800	REF	Reference Information	O	200		N/A
* 1850	DTP	Date or Time or Period	O	1		N/A
* 1900	MAN	Marks and Numbers Information	O	>1		N/A
2000	DTM	Date/Time Reference	O	10	Used	75
* 2100	FOB	F.O.B. Related Instructions	O	1		N/A
* 2150	PAL	Pallet Type and Load Characteristics	O	1		N/A
* LOOP ID - N1				200		N/A
* 2200	N1	Party Identification	O	1		N/A
* 2300	N2	Additional Name Information	O	2		N/A
* 2400	N3	Party Location	O	2		N/A
* 2500	N4	Geographic Location	O	1		N/A
* 2600	REF	Reference Information	O	12		N/A
* 2700	PER	Administrative Communications Contact	O	3		N/A

* 2800	FOB	F.O.B. Related Instructions	O	1	N/A
* 2900	SDQ	Destination Quantity	O	50	N/A
* 3000	ETD	Excess Transportation Detail	O	1	N/A
* 3100	CUR	Currency	O	1	N/A
* LOOP ID - SAC				≥1	N/A
3200	SAC	Service, Promotion, Allowance, or Charge Information	O	1	N/A
* 3250	CUR	Currency	O	1	N/A
* 3300	GF	Furnished Goods and Services	O	1	N/A
* 3350	YNQ	Yes/No Question	O	10	N/A
* LOOP ID - LM				10	N/A
* 3400	LM	Code Source Information	O	1	N/A
* 3500	LQ	Industry Code Identification	M	100	N/A
* LOOP ID - V1				≥1	N/A
* 3600	V1	Vessel Identification	O	1	N/A
* 3700	R4	Port or Terminal	O	>1	N/A
* 3800	DTM	Date/Time Reference	O	>1	N/A

Summary:

<u>Pos</u>	<u>Id</u>	<u>Segment Name</u>	<u>Req</u>	<u>Max Use</u>	<u>Repeat</u>	<u>Notes</u>	<u>Usage</u>	<u>Page</u>
0100	CTT	Transaction Totals	O	1		N3/0100	Used	76
0200	SE	Transaction Set Trailer	M	1			Must use	77

Notes:

3/0100 Number of line items (CTT01) is the accumulation of the number of HL segments. If used, hash total (CTT02) is the sum of the value of units shipped (SN102) for each SN1 segment.

Comments:

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

Pos: 0100	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:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
ST01	143	Transaction Set Identifier Code	M	ID	3/3	Must use

Description: Code uniquely identifying a Transaction Set

CodeList Summary (Total Codes: 319, Included: 1)

<u>Code</u>	<u>Name</u>
856	Ship Notice/Manifest

ST02	329	Transaction Set Control Number	M	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

The number is sequentially assigned by the sender, starting with one within each functional group. For each functional group, the first transaction set control number will be 0001 and incremented by one for each additional transaction set within the group.

Semantics:

1. The transaction set identifier (ST01) is used by the translation routines of the interchange partners to select the appropriate transaction set definition (e.g., 810 selects the Invoice Transaction Set).
2. The implementation convention reference (ST03) is used by the translation routines of the interchange partners to select the appropriate implementation convention to match the transaction set definition. When used, this implementation convention reference takes precedence over the implementation reference specified in the GS08.

BSN Beginning Segment for Ship Notice

Pos: 0200	Max: 1
Heading - Mandatory	
Loop: N/A	Elements: 5

User Option (Usage): Must use

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

In some implementations, it may be appropriate to omit the unit load level and packaging levels, i.e., tare and pack, from the transaction set. Depending on the retailer's receiving systems, carton identification may not be required. Code 0004 in BSN05 indicates the use of a hierarchical structure that does not include a unit load level or any packaging levels.

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
BSN01	353	Transaction Set Purpose Code	M	ID	2/2	Must use
Description: Code identifying purpose of transaction set						
CodeList Summary (Total Codes: 67, Included: 2)						
		<u>Code</u>		<u>Name</u>		
		00		Original		
		07		Duplicate		
BSN02	396	Shipment Identification	M	AN	2/30	Must use
Description: A unique control number assigned by the original shipper to identify a specific shipment						
<i>Shipment Identification is a unique control number, assigned by the original shipper, to identify the original shipment transaction.</i>						
<i>When the 03-Delete code is used in BSN01, the value in BSN02 shall be the 00-Original shipment identification number from a prior 856 transaction.</i>						
BSN03	373	Date	M	DT	8/8	Must use
Description: Date expressed as CCYYMMDD where CC represents the first two digits of the calendar year						
BSN04	337	Time	M	TM	4/8	Must use
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)						
BSN05	1005	Hierarchical Structure Code	O	ID	4/4	Must use
Description: Code indicating the hierarchical application structure of a transaction set that utilizes the HL segment to define the structure of the transaction set						
<i>To avoid potential confusion about an order, for any Hierarchical Structure Code chosen, if the Order Hierarchy (HL) is used, the PRF segment shall not be used in any other level of the 856 Ship Notice/Manifest.</i>						
CodeList Summary (Total Codes: 81, Included: 1)						
		<u>Code</u>		<u>Name</u>		
		0001		Shipment, Order, Packaging, Item		
				<i>Pick and Pack Structure</i>		

Syntax Rules:

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

Semantics:

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

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

Comments:

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

Loop Shipment Level

Pos: 0100	Repeat: 200000
Mandatory	
Loop: HL	Elements: N/A

User Option (Usage): Must use

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

Loop Summary:

<u>Pos</u>	<u>Id</u>	<u>Segment Name</u>	<u>Req</u>	<u>Max Use</u>	<u>Repeat</u>	<u>Usage</u>
0100	HL	Hierarchical Level	M	1		Must use
1100	TD1	Carrier Details (Quantity and Weight)	O	20		Used
1200	TD5	Carrier Details (Routing Sequence/Transit Time)	O	12		Used
1300		Loop TD3	O		12	Used
1400	TD4	Carrier Details (Special Handling, or Hazardous Materials, or Both)	O	5		Used
1500	REF	Reference Information	O	>1		Used
1510	PER	Administrative Communications Contact	O	3		Used
2000	DTM	Date/Time Reference	O	10		Used
2200		Loop N1	O		200	Used

HL Hierarchical Level

Pos: 0100	Max: 1
Detail - Mandatory	
Loop: HL	Elements: 2

User Option (Usage): Must use**Purpose:** To identify dependencies among and the content of hierarchically related groups of data segments

The HL segment is used to identify levels of detail information using a hierarchical structure. HL01 shall contain a unique number for each occurrence of the HL segment within the transaction set. The value assigned to the first HL segment will be 1, and is incremented by one for each subsequent HL segment within the transaction set.

HL02 identifies the hierarchical ID of the HL segment to which it is subordinate (child of).

HL02 will be omitted for the first occurrence of the HL segment in the transaction set, since it has no parent. HL03 identifies the application content of the series of segments following the current HL segment up to the next occurrence of an HL segment, or the CTT or SE segment, e.g., Shipment, Unit Load, Order, Tare, Pack and Item.

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
HL01	628	Hierarchical ID Number	M	AN	1/12	Must use
Description: A unique number assigned by the sender to identify a particular data segment in a hierarchical structure <i>The value for this level (shipment) is 1.</i>						
HL03	735	Hierarchical Level Code	M	ID	1/2	Must use
Description: Code defining the characteristic of a level in a hierarchical structure						
CodeList Summary (Total Codes: 250, Included: 1)						
		<u>Code</u>		<u>Name</u>		
		S		Shipment		

Comments:

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

TD1 Carrier Details (Quantity and Weight)

Pos: 1100	Max: 20
Detail - Optional	
Loop: HL	Elements: 7

User Option (Usage): Used

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

This segment, at the shipment level, is used to specify total containers and gross weight of the shipment as specified on the bill of lading (see VICS EDI 856 Ship Notice/Manifest Guidelines for further detail).

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
TD101	103	Packaging Code	O	AN	3/5	Used

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

CodeList Summary (Total Codes: 157, Included: 7)

Code	Name
AAA	Pallet, Returnable
BAG	Bag
CTN	Carton
MIX	Mixed Container Types
Description: More than one type of container is included in a shipment (shipment could consist of 3 pieces that include 1 box, 1 crate, and 1 basket) Can be used only with code 71 in Part 2	

PLT	Pallet
SLP	Slip Sheet
Description: Shipping containers utilizing slip sheets, which are cardboard platforms used to hold product for storage or transportation	
SRW	Shrink Wrap
Description: In packaging, a method of securing a unit load by placing a large "bag" of plastic film over the components and applying heat to induce shrinkage and cause the bag to tighten around the contents	

CodeList Summary (Total Codes: 58, Included: 3)

Code	Name
25	Corrugated or Solid
76	Paper
94	Wood

TD102	80	Lading Quantity	X	N0	1/7	Used
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Description: Number of units (pieces) of the lading commodity
The number of packages in the shipment as described in TD101

TD106	187	Weight Qualifier	O	ID	1/2	Used
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Description: Code defining the type of weight

CodeList Summary (Total Codes: 52, Included: 1)

Code	Name
G	Gross Weight

TD107	81	Weight	X	R	1/10	Used
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Description: Numeric value of weight

TD108	355	Unit or Basis for Measurement Code	X	ID	2/2	Used
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Description: Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken

See Section III for code list.

CodeList Summary (Total Codes: 884, Included: 3)

<u>Code</u>	<u>Name</u>
2W	Bin
	Description: Storage container used as a unit of measurement
KG	Kilogram
LB	Pound

TD109	183	Volume	X	R	1/8	Used
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Description: Value of volumetric measure
Gross volume

TD110	355	Unit or Basis for Measurement Code	X	ID	2/2	Used
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Description: Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken
See Section III for code list.

CodeList Summary (Total Codes: 884, Included: 13)

<u>Code</u>	<u>Name</u>
BA	Bale
BG	Bag
BO	Bottle
BX	Box
CA	Case
CN	Can
CT	Carton
DS	Display
DZ	Dozen
EA	Each
PK	Package
PL	Pallet/Unit Load
RL	Roll

Syntax Rules:

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

TD5 Carrier Details (Routing Sequence/Transit Time)

Pos: 1200	Max: 12
Detail - Optional	
Loop: HL	Elements: 6

User Option (Usage): Used

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

This segment is used to specify every carrier in the routing sequence or a specific routing sequence that has been previously identified (usually from a routing guide). The segment can also be used to indicate estimated transit time in days. Only use TD501 if needed for clarity; this is not a requirement in most retail applications. When referring to a pre-established routing guide, use code 91 or 92 in TD502 and identify the routing sequence, from the routing guide, in TD503. To identify a specific private parcel service, TD502 will contain code 2 and TD503 will contain the corresponding SCAC. TD510 and TD511 are used to specify transit time.

When using a small package service provider as the carrier, TD502 will contain code 2, TD503 will contain the carrier's SCAC, and TD504 will contain code U to inform the receiver of a small package service shipment.

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
TD501	133	Routing Sequence Code	O	ID	1/2	Used

Description: Code describing the relationship of a carrier to a specific shipment movement

CodeList Summary (Total Codes: 23, Included: 13)

Code	Name
1	1st Carrier after Origin Carrier
2	2nd Carrier after Origin Carrier
3	3rd Carrier after Origin Carrier
4	4th Carrier after Origin Carrier
5	5th Carrier after Origin Carrier
6	6th Carrier after Origin Carrier
7	7th Carrier after Origin Carrier
8	8th Carrier after Origin Carrier
9	9th Carrier after Origin Carrier
A	Origin Carrier, Agent's Routing (Rail)
B	Origin/Delivery Carrier (Any Mode)
O	Origin Carrier (Air, Motor, or Ocean)
S	Origin Carrier, Shipper's Routing (Rail)

TD502	66	Identification Code Qualifier	X	ID	1/2	Used
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Description: Code designating the system/method of code structure used for Identification Code (67)

CodeList Summary (Total Codes: 249, Included: 4)

Code	Name
2	Standard Carrier Alpha Code (SCAC) <i>See External Code Source 17 in Section III for reference document.</i>
91	Assigned by Seller or Seller's Agent
92	Assigned by Buyer or Buyer's Agent
UL	Global Location Number (GLN) Description: A globally unique 13 digit code for the identification of a legal, functional or physical location within the Uniform Code Council (UCC) and International Article Number Association (EAN) numbering system <i>See External Code Source 583 in Section III for reference document.</i>

TD503	67	Identification Code	X	AN	2/80	Used
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Description: Code identifying a party or other code

TD504	91	Transportation Method/Type Code	X	ID	1/2	Used
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Description: Code specifying the method or type of transportation for the shipment

CodeList Summary (Total Codes: 81, Included: 3)

<u>Code</u>	<u>Name</u>
H	Customer Pickup
M	Motor (Common Carrier)
R	Rail

TD505	387	Routing	X	AN	1/35	Used
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Description: Free-form description of the routing or requested routing for shipment, or the originating carrier's identity

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

CodeList Summary (Total Codes: 102, Included: 1)

<u>Code</u>	<u>Name</u>
CC	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.

Loop Carrier Details (Equipment)

Pos: 1300	Repeat: 12
Optional	
Loop: TD3	Elements: N/A

User Option (Usage): Used

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

Loop Summary:

<u>Pos</u>	<u>Id</u>	<u>Segment Name</u>	<u>Req</u>	<u>Max Use</u>	<u>Repeat</u>	<u>Usage</u>
1300	TD3	Carrier Details (Equipment)	O	1		Used

TD3 Carrier Details (Equipment)

Pos: 1300	Max: 1
Detail - Optional	
Loop: TD3	Elements: 3

User Option (Usage): Used

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

This segment is used to specify the trailer number for a truckload shipment. This segment may be used also to specify the type of import container.

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
TD301	40	Equipment Description Code	X	ID	2/2	Used

Description: Code identifying type of equipment used for shipment

CodeList Summary (Total Codes: 141, Included: 10)

<u>Code</u>	<u>Name</u>
2B	20 ft. IL Container (Closed Top)
4B	40 ft. IL Container (Closed Top)
AT	Closed Container (Controlled Temperature)
CI	Container, Insulated
CK	Container, Heated/Insulated/Ventilated
CN	Container
CZ	Refrigerated Container
RC	Refrigerated (Reefer) Car
TA	Trailer, Heated/Insulated/Ventilated
TL	Trailer (not otherwise specified)

TD302	206	Equipment Initial	O	AN	1/4	Used
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Description: Prefix or alphabetic part of an equipment unit's identifying number

See External Code Source 17 in Section III for reference document.

TD303	207	Equipment Number	X	AN	1/15	Used
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Description: Sequencing or serial part of an equipment unit's identifying number (pure numeric form for equipment number is preferred)

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.

TD4 Carrier Details (Special Handling, or Hazardous Materials, or Both)

Pos: 1400	Max: 5
Detail - Optional	
Loop: HL	Elements: 1

User Option (Usage): Used

Purpose: To specify transportation special handling requirements, or hazardous materials information, or both

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
TD401	152	Special Handling Code	X	ID	2/3	Must use

Description: Code specifying special transportation handling instructions
See Section III for code list.

CodeList Summary (Total Codes: 575, Included: 6)

<u>Code</u>	<u>Name</u>
CC	Container, Consolidator Load Description: Full container
CF	Container, Factory Load Description: Full container, not to be opened for consolidation
LN	Less Than Container, Consolidator Load
LR	Less Than Container, Factory Load
TC	Trailer, Consolidator Load Description: Full trailer
TF	Trailer, Factory Load Description: Full trailer, not to be opened for consolidation

Syntax Rules:

1. R010204 - At least one of TD401, TD402 or TD404 is required.
2. C0203 - If TD402 is present, then TD403 is required.

Semantics:

1. TD405 identifies if a Material Safety Data Sheet (MSDS) exists for this product. A "Y" indicates an MSDS exists for this product; an "N" indicates an MSDS does not exist for this product.

REF Reference Information

Pos: 1500	Max: >1
Detail - Optional	
Loop: HL	Elements: 2

User Option (Usage): Used

Purpose: To specify identifying information

In some cases, individual shipments with bill of lading may be grouped under a VICS Master Bill of Lading. Under this circumstance, specifying both the bill of lading and the associated VICS Master Bill of Lading Number will facilitate tracking.

Element Summary:

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

Description: Code qualifying the Reference Identification

CodeList Summary (Total Codes: 1767, Included: 5)

<u>Code</u>	<u>Name</u>
BM	Bill of Lading Number
CN	Carrier's Reference Number (PRO/Invoice)
MB	Master Bill of Lading
UCB	VICS Bill of Lading Number (17 Digits)
	<i>See External Code Source 852 in Section III for reference document.</i>
UCM	VICS Master Bill of Lading Number (17 Digits)
	<i>See External Code Source 852 in Section III for reference document.</i>

REF02	127	Reference Identification	X	AN	1/80	Must use
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Description: Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier

Syntax Rules:

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

Semantics:

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

PER Administrative Communications Contact

Pos: 1510	Max: 3
Detail - Optional	
Loop: HL	Elements: 8

User Option (Usage): Used

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

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
PER01	366	Contact Function Code	M	ID	2/2	Must use

Description: Code identifying the major duty or responsibility of the person or group named

CodeList Summary (Total Codes: 241, Included: 1)

<u>Code</u>	<u>Name</u>
DI	Delivery Instructions Contact

PER02	93	Name	O	AN	1/60	Used
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Description: Free-form name

PER03	365	Communication Number Qualifier	X	ID	2/2	Used
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Description: Code identifying the type of communication number

CodeList Summary (Total Codes: 42, Included: 3)

<u>Code</u>	<u>Name</u>
EM	Electronic Mail
FX	Facsimile
TE	Telephone

PER04	364	Communication Number	X	AN	1/256	Used
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Description: Complete communications number including country or area code when applicable

PER05	365	Communication Number Qualifier	X	ID	2/2	Used
-------	-----	--------------------------------	---	----	-----	------

Description: Code identifying the type of communication number

CodeList Summary (Total Codes: 42, Included: 3)

<u>Code</u>	<u>Name</u>
EM	Electronic Mail
FX	Facsimile
TE	Telephone

PER06	364	Communication Number	X	AN	1/256	Used
-------	-----	----------------------	---	----	-------	------

Description: Complete communications number including country or area code when applicable

PER07	365	Communication Number Qualifier	X	ID	2/2	Used
-------	-----	--------------------------------	---	----	-----	------

Description: Code identifying the type of communication number

CodeList Summary (Total Codes: 42, Included: 3)

<u>Code</u>	<u>Name</u>
EM	Electronic Mail
FX	Facsimile
TE	Telephone

PER08	364	Communication Number	X	AN	1/256	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.

DTM Date/Time Reference

Pos: 2000	Max: 10
Detail - Optional	
Loop: HL	Elements: 3

User Option (Usage): Used

Purpose: To specify pertinent dates and times

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
DTM01	374	Date/Time Qualifier	M	ID	3/3	Must use

Description: Code specifying type of date or time, or both date and time
See Section III for code list.

CodeList Summary (Total Codes: 1288, Included: 6)

<u>Code</u>	<u>Name</u>
011	Shipped
017	Estimated Delivery
067	Current Schedule Delivery
068	Current Schedule Ship
AA1	Estimated Point of Arrival
AA2	Estimated Point of Discharge

DTM02	373	Date	X	DT	8/8	Must use
-------	-----	------	---	----	-----	----------

Description: Date expressed as CCYYMMDD where CC represents the first two digits of the calendar year

DTM03	337	Time	X	TM	4/8	Used
-------	-----	------	---	----	-----	------

Description: Time expressed in 24-hour clock time as follows: HHMM, or HHMMSS, or HHMMSSD, or HHMMSSDD, where H = hours (00-23), M = minutes (00-59), S = integer seconds (00-59) and DD = decimal seconds; decimal seconds are expressed as follows: D = tenths (0-9) and DD = hundredths (00-99)

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.

Loop Party Identification

Pos: 2200	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>Id</u>	<u>Segment Name</u>	<u>Req</u>	<u>Max Use</u>	<u>Repeat</u>	<u>Usage</u>
2200	N1	Party Identification	O	1		Used
2300	N2	Additional Name Information	O	2		Used
2400	N3	Party Location	O	2		Used
2500	N4	Geographic Location - Shipment	O	1		Used

N1 Party Identification

Pos: 2200	Max: 1
Detail - Optional	
Loop: N1	Elements: 4

User Option (Usage): Used

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

N103 and N104 are required except when N101 contains code MA or OB, or for direct-to-consumer when N101 contains code ST.

When the ship to is the end consumer (customer of retailer), N103 and N104 are not required.

In some EDI implementations, it may be necessary to identify the sender and/or receiver of the transaction set. To identify the sender of the transaction set, N101 will contain code FR. To identify the receiver of the transaction set, N101 will contain code TO.

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
N101	98	Entity Identifier Code	M	ID	2/3	Must use

Description: Code identifying an organizational entity, a physical location, property or an individual

CodeList Summary (Total Codes: 1504, Included: 3)

Code	Name
MA	Party for whom Item is Ultimately Intended <i>Ultimate receiver</i>
SF	Ship From
ST	Ship To

N102	93	Name	X	AN	1/60	Used
------	----	------	---	----	------	------

Description: Free-form name

N103	66	Identification Code Qualifier	X	ID	1/2	Used
------	----	-------------------------------	---	----	-----	------

Description: Code designating the system/method of code structure used for Identification Code (67)

CodeList Summary (Total Codes: 249, Included: 4)

Code	Name
1	D-U-N-S Number, Dun & Bradstreet <i>See External Code Source 16 in Section III for reference document.</i>
9	D-U-N-S+4, D-U-N-S Number with Four Character Suffix <i>See External Code Source 16 in Section III for reference document.</i>
21	Health Industry Number (HIN) <i>See External Code Source 121 in Section III for reference document.</i>
UL	Global Location Number (GLN) Description: A globally unique 13 digit code for the identification of a legal, functional or physical location within the Uniform Code Council (UCC) and International Article Number Association (EAN) numbering system <i>This is the 13-digit Global Location Number (GLN). See External Code Source 583 in Section III for reference document.</i>

N104	67	Identification Code	X	AN	2/80	Used
------	----	---------------------	---	----	------	------

Description: Code identifying a party or other code

This is the location code as defined by N103. The location code may be a formal number, e.g., DUNS, or it may be assigned by either the buyer or seller. The location refers to a store, warehouse, distribution center, plant, etc. Location codes are used to alleviate the need to send complete names and addresses.

Syntax Rules:

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

Comments:

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

N2 Additional Name Information

Pos: 2300	Max: 2
Detail - Optional	
Loop: N1	Elements: 2

User Option (Usage): Used

Purpose: To specify additional names

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
N201	93	Name Description: Free-form name	M	AN	1/60	Must use
N202	93	Name Description: Free-form name	O	AN	1/60	Used

N3 Party Location

Pos: 2400	Max: 2
Detail - Optional	
Loop: N1	Elements: 2

User Option (Usage): Used

Purpose: To specify the location of the named party

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
N301	166	Address Information	M	AN	1/55	Must use
		Description: Address information				
N302	166	Address Information	O	AN	1/55	Used
		Description: Address information				

N4 Geographic Location - Shipment

Pos: 2500	Max: 1
Detail - Optional	
Loop: N1	Elements: 4

User Option (Usage): Used

Purpose: To specify the geographic place of the named party

N401 and N402 are required unless N405 and N406 are used.

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
N401	19	City Name	O	AN	2/30	Used
		Description: Free-form text for city name				
N402	156	State or Province Code	X	ID	2/2	Used
		Description: Code (Standard State/Province) as defined by appropriate government agency <i>See External Code Source 22 in Section III for reference document.</i>				
N403	116	Postal Code	O	ID	3/15	Used
		Description: Code defining international postal zone code excluding punctuation and blanks (zip code for United States) <i>See External Code Source 51 in Section III for reference document.</i>				
N404	26	Country Code	X	ID	2/3	Used
		Description: Code identifying the country <i>See External Code Source 5 in Section III for reference document.</i> CA - Canada MX - Mexico US - United States				

Syntax Rules:

1. E0207 - Only one of N402 or N407 may be present.
2. C0605 - If N406 is present, then N405 is required.
3. C0704 - If N407 is present, then N404 is required.

Comments:

1. A combination of either N401 through N404, or N405 and N406 may be adequate to specify a location.

Loop Unit Load

Pos: 0100	Repeat: 200000
Optional	
Loop: HL	Elements: N/A

User Option (Usage): Used

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

Loop Summary:

<u>Pos</u>	<u>Id</u>	<u>Segment Name</u>	<u>Req</u>	<u>Max Use</u>	<u>Repeat</u>	<u>Usage</u>
0100	HL	Hierarchical Level - Unit Load	O	1		Used
1300		Loop TD3	O		12	Used
1900	MAN	Marks and Numbers Information	O	>1		Used

HL Hierarchical Level - Unit Load

Pos: 0100	Max: 1
Detail - Optional	
Loop: HL	Elements: 3

User Option (Usage): Used

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

The HL segment is used to identify levels of detail information using a hierarchical structure. HL01 shall contain a unique number for each occurrence of the HL segment within the transaction set. The value assigned to the first HL segment will be 1, and is incremented by one for each subsequent HL segment within the transaction set. HL02 identifies the hierarchical ID of the HL segment to which it is subordinate (child of). HL02 will be omitted for the first occurrence of the HL segment in the transaction set, since it has no parent. HL03 identifies the application content of the series of segments following the current HL segment up to the next occurrence of an HL segment, or the CTT or SE segment, e.g., Shipment, Unit Load, Order, Tare, Pack and Item.

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
HL01	628	Hierarchical ID Number	M	AN	1/12	Must use
Description: A unique number assigned by the sender to identify a particular data segment in a hierarchical structure						
HL02	734	Hierarchical Parent ID Number	O	AN	1/12	Must use
Description: Identification number of the next higher hierarchical data segment that the data segment being described is subordinate to						
HL03	735	Hierarchical Level Code	M	ID	1/2	Must use
Description: Code defining the characteristic of a level in a hierarchical structure						

CodeList Summary (Total Codes: 250, Included: 1)

<u>Code</u>	<u>Name</u>
UT	Unit or Lot
	<i>Unit load</i>

Loop Carrier Details (Equipment)

Pos: 1300	Repeat: 12
Optional	
Loop: TD3	Elements: N/A

User Option (Usage): Used

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

Loop Summary:

<u>Pos</u>	<u>Id</u>	<u>Segment Name</u>	<u>Req</u>	<u>Max Use</u>	<u>Repeat</u>	<u>Usage</u>
1300	TD3	Carrier Details (Equipment)	O	1		Used

TD3 Carrier Details (Equipment)

Pos: 1300	Max: 1
Detail - Optional	
Loop: TD3	Elements: 1

User Option (Usage): Used

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

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
TD301	40	Equipment Description Code	X	ID	2/2	Used

Description: Code identifying type of equipment used for shipment

CodeList Summary (Total Codes: 141, Included: 6)

<u>Code</u>	<u>Name</u>
20	20 ft. IL Container (Open Top)
2B	20 ft. IL Container (Closed Top)
40	40 ft. IL Container (Open Top)
4B	40 ft. IL Container (Closed Top)
CN	Container
CZ	Refrigerated Container

Syntax Rules:

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

MAN Marks and Numbers Information

Pos: 1900	Max: >1
Detail - Optional	
Loop: HL	Elements: 2

User Option (Usage): Used

Purpose: To indicate identifying marks and numbers for shipping containers

This segment, at the unit load level, is used to specify the identification number for the unit load.

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
MAN01	88	Marks and Numbers Qualifier	M	ID	1/2	Must use

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

CodeList Summary (Total Codes: 28, Included: 5)

<u>Code</u>	<u>Name</u>
E1	Electronic Product Code (ePC) Serial Shipping Container Code (SSCC) Description: Trade Item with ePC tag marked with SSCC value
E2	Electronic Product Code (ePC) and Bar Code Serial Shipping Container Code (SSCC) Description: Trade Item with dual marking for barcode and ePC, with SSCC value
E3	Electronic Product Code (ePC) and Bar Code Serial Shipping Container Code (SSCC) with Application Identifier (AI) Description: Trade Item with dual marking for barcode and ePC, with SSCC and AI value
GM	EAN.UCC Serial Shipping Container Code (SSCC) and Application Identifier <i>This is a twenty-character GS1-128 Serial Shipping Container Code (SSCC-18) that includes the two digit application identifier. The symbology code and the modulo 103 check digit are not included.</i> <i>See External Code Source 98 in Section III for reference document.</i>
SI	Self-Identifying Container via Radio Frequency ID Device Description: Inbound containers that do not need manual routing

MAN02	87	Marks and Numbers	M	AN	1/48	Must use
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Description: Marks and numbers used to identify a shipment or parts of a shipment

Syntax Rules:

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

Semantics:

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

Loop Order

Pos: 0100	Repeat: 200000
Mandatory	
Loop: HL	Elements: N/A

User Option (Usage): Must use

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

Loop Summary:

<u>Pos</u>	<u>Id</u>	<u>Segment Name</u>	<u>Req</u>	<u>Max Use</u>	<u>Repeat</u>	<u>Usage</u>
0100	HL	Hierarchical Level	M	1		Must use
0500	PRF	Purchase Order Reference	O	1		Used
1100	TD1	Carrier Details (Quantity and Weight)	O	20		Used
1500	REF	Reference Information	O	>1		Used
2200		Loop N1	O		200	Used

HL Hierarchical Level

Pos: 0100	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

The HL segment is used to identify levels of detail information using a hierarchical structure. HL01 shall contain a unique number for each occurrence of the HL segment within the transaction set. The value assigned to the first HL segment will be 1, and is incremented by one for each subsequent HL segment within the transaction set.

HL02 identifies the hierarchical ID of the HL segment to which it is subordinate (child of).

HL02 will be omitted for the first occurrence of the HL segment in the transaction set, since it has no parent. HL03 identifies the application content of the series of segments following the current HL segment up to the next occurrence of an HL segment, or the CTT or SE segment, e.g., Shipment, Unit Load, Order, Tare, Pack and Item.

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
HL01	628	Hierarchical ID Number	M	AN	1/12	Must use
Description: A unique number assigned by the sender to identify a particular data segment in a hierarchical structure						
HL02	734	Hierarchical Parent ID Number	O	AN	1/12	Must use
Description: Identification number of the next higher hierarchical data segment that the data segment being described is subordinate to						
HL03	735	Hierarchical Level Code	M	ID	1/2	Must use
Description: Code defining the characteristic of a level in a hierarchical structure						
CodeList Summary (Total Codes: 250, Included: 1)						
		<u>Code</u>		<u>Name</u>		
		O		Order		

PRF Purchase Order Reference

Pos: 0500	Max: 1
Detail - Optional	
Loop: HL	Elements: 1

User Option (Usage): Used

Purpose: To provide reference to a specific purchase order

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
PRF01	324	Purchase Order Number	M	AN	1/22	Must use

Description: Identifying number for Purchase Order assigned by the orderer/purchaser
Retailer's original purchase order number

Semantics:

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

TD1 Carrier Details (Quantity and Weight)

Pos: 1100	Max: 20
Detail - Optional	
Loop: HL	Elements: 5

User Option (Usage): Used

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

This segment, at the order level, is used to specify the number and type of shipping containers in the order.

Element Summary:

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

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

CodeList Summary (Total Codes: 157, Included: 7)

<u>Code</u>	<u>Name</u>
AAA	Pallet, Returnable
BAG	Bag
CTN	Carton
MIX	Mixed Container Types
	Description: More than one type of container is included in a shipment (shipment could consist of 3 pieces that include 1 box, 1 crate, and 1 basket)
PLT	Pallet
SLP	Slip Sheet
	Description: Shipping containers utilizing slip sheets, which are cardboard platforms used to hold product for storage or transportation
SRW	Shrink Wrap
	Description: In packaging, a method of securing a unit load by placing a large "bag" of plastic film over the components and applying heat to induce shrinkage and cause the bag to tighten around the contents

CodeList Summary (Total Codes: 58, Included: 3)

<u>Code</u>	<u>Name</u>
25	Corrugated or Solid
76	Paper
94	Wood

TD102	80	Lading Quantity	X	N0	1/7	Used
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Description: Number of units (pieces) of the lading commodity

TD106	187	Weight Qualifier	O	ID	1/2	Used
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Description: Code defining the type of weight

CodeList Summary (Total Codes: 52, Included: 1)

<u>Code</u>	<u>Name</u>
G	Gross Weight

TD107	81	Weight	X	R	1/10	Used
-------	----	--------	---	---	------	------

Description: Numeric value of weight

TD108	355	Unit or Basis for Measurement Code	X	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

See Section III for code list.

CodeList Summary (Total Codes: 884, Included: 2)

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

REF Reference Information

Pos: 1500	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>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
REF01	128	Reference Identification Qualifier	M	ID	2/3	Must use

Description: Code qualifying the Reference Identification

CodeList Summary (Total Codes: 1767, Included: 17)

<u>Code</u>	<u>Name</u>
6B	U.S. Customs Service (USCS) Entry Number <i>Customs entry number</i>
BM	Bill of Lading Number
BT	Batch Number
CH	Customer Catalog Number
CO	Customer Order Number <i>Customer of retailer</i>
DP	Department Number
HB	Bill & Hold Invoice Number
IA	Internal Vendor Number <i>Identification number assigned to the vendor, by the retailer, for use within the retailer's system</i>
IT	Internal Customer Number <i>Identification number assigned to the retailer, by the vendor, for use within the vendor's system</i>
IV	Seller's Invoice Number
MR	Merchandise Type Code
PD	Promotion/Deal Number
QC	Product Specification Document Number Description: <i>Model designation of replacement component</i> <i>Schematic reference number</i>
SB	Sales Region Number
VN	Vendor Order Number
UCB	VICS Bill of Lading Number (17 Digits) <i>See External Code Source 852 in Section III for reference document.</i>
UCM	VICS Master Bill of Lading Number (17 Digits) <i>See External Code Source 852 in Section III for reference document.</i>

REF02	127	Reference Identification	X	AN	1/80	Must use
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Description: Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier

Syntax Rules:

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

Semantics:

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

Loop Party Identification

Pos: 2200	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>Id</u>	<u>Segment Name</u>	<u>Req</u>	<u>Max Use</u>	<u>Repeat</u>	<u>Usage</u>
2200	N1	Party Identification	O	1		Used
2300	N2	Additional Name Information	O	2		Used
2400	N3	Party Location	O	2		Used
2500	N4	Geographic Location	O	1		Used

N1 Party Identification

Pos: 2200	Max: 1
Detail - Optional	
Loop: N1	Elements: 4

User Option (Usage): Used

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

N103 and N104 are required except when N101 contains code CT, MA or OB.

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
N101	98	Entity Identifier Code	M	ID	2/3	Must use

Description: Code identifying an organizational entity, a physical location, property or an individual

CodeList Summary (Total Codes: 1504, Included: 3)

Code	Name
BY	Buying Party (Purchaser)
MA	Party for whom Item is Ultimately Intended <i>Ultimate receiver</i>
SE	Selling Party

N102	93	Name	X	AN	1/60	Used
------	----	------	---	----	------	------

Description: Free-form name

N103	66	Identification Code Qualifier	X	ID	1/2	Used
------	----	-------------------------------	---	----	-----	------

Description: Code designating the system/method of code structure used for Identification Code (67)

CodeList Summary (Total Codes: 249, Included: 6)

Code	Name
1	D-U-N-S Number, Dun & Bradstreet <i>See External Code Source 16 in Section III for reference document.</i>
9	D-U-N-S+4, D-U-N-S Number with Four Character Suffix <i>See External Code Source 16 in Section III for reference document.</i>
21	Health Industry Number (HIN) <i>See External Code Source 121 in Section III for reference document.</i>
91	Assigned by Seller or Seller's Agent
92	Assigned by Buyer or Buyer's Agent
UL	Global Location Number (GLN) Description: A globally unique 13 digit code for the identification of a legal, functional or physical location within the Uniform Code Council (UCC) and International Article Number Association (EAN) numbering system <i>See External Code Source 583 in Section III for reference document.</i>

N104	67	Identification Code	X	AN	2/80	Used
------	----	---------------------	---	----	------	------

Description: Code identifying a party or other code

This is the location code as defined by N103. The location code may be a formal number, e.g., DUNS, or it may be assigned by either the buyer or seller. The location refers to a store, warehouse, distribution center, plant, etc. Location codes are used to alleviate the need to send complete names and addresses.

Syntax Rules:

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

N2 Additional Name Information

Pos: 2300	Max: 2
Detail - Optional	
Loop: N1	Elements: 2

User Option (Usage): Used

Purpose: To specify additional names

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
N201	93	Name Description: Free-form name	M	AN	1/60	Must use
N202	93	Name Description: Free-form name	O	AN	1/60	Used

N3 Party Location

Pos: 2400	Max: 2
Detail - Optional	
Loop: N1	Elements: 2

User Option (Usage): Used

Purpose: To specify the location of the named party

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
N301	166	Address Information	M	AN	1/55	Must use
		Description: Address information				
N302	166	Address Information	O	AN	1/55	Used
		Description: Address information				

N4 Geographic Location

Pos: 2500	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>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
N401	19	City Name	O	AN	2/30	Used
		Description: Free-form text for city name				
N402	156	State or Province Code	X	ID	2/2	Used
		Description: Code (Standard State/Province) as defined by appropriate government agency <i>See External Code Source 22 in Section III for reference document.</i>				
N403	116	Postal Code	O	ID	3/15	Used
		Description: Code defining international postal zone code excluding punctuation and blanks (zip code for United States) <i>See External Code Source 51 in Section III for reference document.</i>				
N404	26	Country Code	X	ID	2/3	Used
		Description: Code identifying the country <i>See External Code Source 5 in Section III for reference document.</i> CA - Canada MX - Mexico US - United States				

Syntax Rules:

1. C0605 - If N406 is present, then N405 is required.
2. C0704 - If N407 is present, then N404 is required.
3. E0207 - Only one of N402 or N407 may be present.

Loop Tare

Pos: 0100	Repeat: 200000
Optional	
Loop: HL	Elements: N/A

User Option (Usage): Used

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

Loop Summary:

<u>Pos</u>	<u>Id</u>	<u>Segment Name</u>	<u>Req</u>	<u>Max Use</u>	<u>Repeat</u>	<u>Usage</u>
0100	HL	Hierarchical Level	O	1		Used
1900	MAN	Marks and Numbers Information	O	>1		Used
2150	PAL	Pallet Type and Load Characteristics	O	1		Used

HL Hierarchical Level

Pos: 0100	Max: 1
Detail - Optional	
Loop: HL	Elements: 3

User Option (Usage): Used

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

The HL segment is used to identify levels of detail information using a hierarchical structure. HL01 shall contain a unique number for each occurrence of the HL segment within the transaction set. The value assigned to the first HL segment will be 1, and is incremented by one for each subsequent HL segment within the transaction set. HL02 identifies the hierarchical ID of the HL segment to which it is subordinate (child of). HL02 will be omitted for the first occurrence of the HL segment in the transaction set, since it has no parent. HL03 identifies the application content of the series of segments following the current HL segment up to the next occurrence of an HL segment, or the CTT or SE segment, e.g., Shipment, Unit Load, Order, Tare, Pack and Item.

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
HL01	628	Hierarchical ID Number	M	AN	1/12	Must use
Description: A unique number assigned by the sender to identify a particular data segment in a hierarchical structure						
HL02	734	Hierarchical Parent ID Number	O	AN	1/12	Must use
Description: Identification number of the next higher hierarchical data segment that the data segment being described is subordinate to						
HL03	735	Hierarchical Level Code	M	ID	1/2	Must use
Description: Code defining the characteristic of a level in a hierarchical structure						
CodeList Summary (Total Codes: 250, Included: 1)						
		<u>Code</u>		<u>Name</u>		
		T		Shipping Tare		

MAN Marks and Numbers Information

Pos: 1900	Max: >1
Detail - Optional	
Loop: HL	Elements: 2

User Option (Usage): Used

Purpose: To indicate identifying marks and numbers for shipping containers

This segment, at the tare level, is used to specify the identification numbers for the pallet.

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
MAN01	88	Marks and Numbers Qualifier	M	ID	1/2	Must use

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

CodeList Summary (Total Codes: 28, Included: 5)

<u>Code</u>	<u>Name</u>
E1	Electronic Product Code (ePC) Serial Shipping Container Code (SSCC) Description: Trade Item with ePC tag marked with SSCC value
E2	Electronic Product Code (ePC) and Bar Code Serial Shipping Container Code (SSCC) Description: Trade Item with dual marking for barcode and ePC, with SSCC value
E3	Electronic Product Code (ePC) and Bar Code Serial Shipping Container Code (SSCC) with Application Identifier (AI) Description: Trade Item with dual marking for barcode and ePC, with SSCC and AI value
GM	EAN.UCC Serial Shipping Container Code (SSCC) and Application Identifier <i>This is a twenty-character GS1-128 Serial Shipping Container Code (SSCC-18) that includes the two digit application identifier. The symbology code and the modulo 103 check digit are not included. See External Code Source 98 in Section III for reference document.</i>
SI	Self-Identifying Container via Radio Frequency ID Device Description: Inbound containers that do not need manual routing

MAN02	87	Marks and Numbers	M	AN	1/48	Must use
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Description: Marks and numbers used to identify a shipment or parts of a shipment

Syntax Rules:

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

Semantics:

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

PAL Pallet Type and Load Characteristics

Pos: 2150	Max: 1
Detail - Optional	
Loop: HL	Elements: 5

User Option (Usage): Used

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

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
PAL01	883	Pallet Type Code	O	ID	1/2	Used

Description: Code indicating the type of pallet

CodeList Summary (Total Codes: 18, Included: 7)

<u>Code</u>	<u>Name</u>
1	Aluminum
2	As Specified by the Department of Transportation (DOT)
3	Metal
4	Standard
5	Steel
6	Wood
7	Slip sheet

Description: Typically cardboard or plastic sheets used to hold product for storage or transportation

Typically cardboard or plastic sheets used to hold products for storage or shipment

PAL02	884	Pallet Tiers	O	N0	1/3	Used
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Description: The number of layers per pallet

PAL03	885	Pallet Blocks	O	N0	1/3	Used
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Description: The number of pieces (cartons) per layer on the pallet

PAL04	356	Pack	O	N0	1/6	Used
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Description: The number of inner containers, or number of eaches if there are no inner containers, per outer container

PAL15	399	Pallet Exchange Code	O	ID	1/1	Used
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Description: Code specifying pallet exchange instructions

CodeList Summary (Total Codes: 5, Included: 5)

<u>Code</u>	<u>Name</u>
1	No Exchange/No Return
2	Exchange Pallets
3	Return Pallets
4	Pallets to be Purchased by Customer
5	Third-Party Pallet Exchange

Description: A pallet exchange program where a third party rents pallets for internal or external use

Syntax Rules:

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

6. P1112 - If either PAL11 or PAL12 is present, then the other is required.
7. P1314 - If either PAL13 or PAL14 is present, then the other is required.

Semantics:

1. PAL04 (Pack) is the number of pieces on the pallet.
2. PAL05 (Unit Weight) is the weight of the pallet alone, before loading.
3. PAL07 and PAL08 (Length and Width) are the dimensions of the pallet before loading.
4. PAL09 (Height) is the height of the pallet and load.
5. PAL11 and PAL13 (Gross Weight and Gross Volume) are measured after loading and includes the pallet.

Loop Pack

Pos: 0100	Repeat: 200000
Mandatory	
Loop: HL	Elements: N/A

User Option (Usage): Must use

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

Loop Summary:

<u>Pos</u>	<u>Id</u>	<u>Segment Name</u>	<u>Req</u>	<u>Max Use</u>	<u>Repeat</u>	<u>Usage</u>
0100	HL	Hierarchical Level	M	1		Must use
0200	LIN	Item Identification	O	1		Used
0300	SN1	Item Detail (Shipment)	O	1		Used
1900	MAN	Marks and Numbers Information	O	>1		Used

HL Hierarchical Level

Pos: 0100	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

The HL segment is used to identify levels of detail information using a hierarchical structure. HL01 shall contain a unique number for each occurrence of the HL segment within the transaction set. The value assigned to the first HL segment will be 1, and is incremented by one for each subsequent HL segment within the transaction set.

HL02 identifies the hierarchical ID of the HL segment to which it is subordinate (child of).

HL02 will be omitted for the first occurrence of the HL segment in the transaction set, since it has no parent. HL03 identifies the application content of the series of segments following the current HL segment up to the next occurrence of an HL segment, or the CTT or SE segment, e.g., Shipment, Unit Load, Order, Tare, Pack and Item.

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
HL01	628	Hierarchical ID Number	M	AN	1/12	Must use
Description: A unique number assigned by the sender to identify a particular data segment in a hierarchical structure						
HL02	734	Hierarchical Parent ID Number	O	AN	1/12	Must use
Description: Identification number of the next higher hierarchical data segment that the data segment being described is subordinate to						
HL03	735	Hierarchical Level Code	M	ID	1/2	Must use
Description: Code defining the characteristic of a level in a hierarchical structure						
CodeList Summary (Total Codes: 250, Included: 1)						
	<u>Code</u>	<u>Name</u>				
	P	Pack				

LIN Item Identification

Pos: 0200	Max: 1
Detail - Optional	
Loop: HL	Elements: 6

User Option (Usage): Used

Purpose: To specify basic item identification data

This segment, at the pack level, is used to specify the GTIN Case Code, and production information. The SN1 segment that follows is used to specify the number of cases identified in the LIN segment. The LIN segment, at the item level, is used to indicate the individual consumer units for the case code.

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
LIN02	235	Product/Service ID Qualifier	M	ID	2/2	Must use

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

CodeList Summary (Total Codes: 530, Included: 5)

<u>Code</u>	<u>Name</u>
CA	Case <i>GTIN EAN/UCC-14 digit Shipping Unit – the data structure for a 14-digit EAN.UCC Global Trade Item Number that uniquely identifies a manufacturer’s shipping unit encompassing non-consumer trade units such as cases, pallets and inner packs. The number includes the packaging indicator and check digit.</i>
EN	GTIN EAN/UCC - 13 Digit Data Structure Description: Data structure for the 13 digit EAN.UCC (EAN International.Uniform Code Council) Global Trade Item Number (GTIN)
LT	Lot Number
UK	GTIN 14-digit Data Structure Description: Data structure for the 14 digit EAN.UCC (EAN International.Uniform Code Council) Global Trade Item Number (GTIN)
UP	GTIN UCC - 12 Digit Data Structure Description: Data structure for the 12 digit EAN.UCC (EAN International.Uniform Code Council) Global Trade Item Number (GTIN). Also known as the Universal Product Code (U.P.C.)

LIN03	234	Product/Service ID	M	AN	1/48	Must use
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Description: Identifying number for a product or service

LIN04	235	Product/Service ID Qualifier	X	ID	2/2	Used
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Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234)

CodeList Summary (Total Codes: 530, Included: 5)

<u>Code</u>	<u>Name</u>
CA	Case <i>GTIN EAN/UCC-14 digit Shipping Unit – the data structure for a 14-digit EAN.UCC Global Trade Item Number that uniquely identifies a manufacturer’s shipping unit encompassing non-consumer trade units such as cases, pallets and inner packs. The number includes the packaging indicator and check digit.</i>
EN	GTIN EAN/UCC - 13 Digit Data Structure Description: Data structure for the 13 digit EAN.UCC (EAN International.Uniform Code Council) Global Trade Item Number (GTIN)
LT	Lot Number
UK	GTIN 14-digit Data Structure Description: Data structure for the 14 digit EAN.UCC (EAN

							<i>International.Uniform Code Council) Global Trade Item Number (GTIN)</i>
		UP					GTIN UCC - 12 Digit Data Structure Description: <i>Data structure for the 12 digit EAN.UCC (EAN International.Uniform Code Council) Global Trade Item Number (GTIN). Also known as the Universal Product Code (U.P.C.)</i>
LIN05	234	Product/Service ID	X	AN	1/48		Used
							Description: Identifying number for a product or service
LIN06	235	Product/Service ID Qualifier	X	ID	2/2		Used
							Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234)
		CodeList Summary (Total Codes: 530, Included: 5)					
		<u>Code</u>	<u>Name</u>				
		CA	Case <i>GTIN EAN/UCC-14 digit Shipping Unit – the data structure for a 14-digit EAN.UCC Global Trade Item Number that uniquely identifies a manufacturer’s shipping unit encompassing non-consumer trade units such as cases, pallets and inner packs. The number includes the packaging indicator and check digit.</i>				
		EN	GTIN EAN/UCC - 13 Digit Data Structure Description: <i>Data structure for the 13 digit EAN.UCC (EAN International.Uniform Code Council) Global Trade Item Number (GTIN)</i>				
		LT	Lot Number				
		UK	GTIN 14-digit Data Structure Description: <i>Data structure for the 14 digit EAN.UCC (EAN International.Uniform Code Council) Global Trade Item Number (GTIN)</i>				
		UP	GTIN UCC - 12 Digit Data Structure Description: <i>Data structure for the 12 digit EAN.UCC (EAN International.Uniform Code Council) Global Trade Item Number (GTIN). Also known as the Universal Product Code (U.P.C.)</i>				
LIN07	234	Product/Service ID	X	AN	1/48		Used
							Description: Identifying number for a product or service

Syntax Rules:

1. P0405 - If either LIN04 or LIN05 is present, then the other is required.
2. P0607 - If either LIN06 or LIN07 is present, then the other is required.
3. P0809 - If either LIN08 or LIN09 is present, then the other is required.
4. P1011 - If either LIN10 or LIN11 is present, then the other is required.
5. P1213 - If either LIN12 or LIN13 is present, then the other is required.
6. P1415 - If either LIN14 or LIN15 is present, then the other is required.
7. P1617 - If either LIN16 or LIN17 is present, then the other is required.
8. P1819 - If either LIN18 or LIN19 is present, then the other is required.
9. P2021 - If either LIN20 or LIN21 is present, then the other is required.
10. P2223 - If either LIN22 or LIN23 is present, then the other is required.
11. P2425 - If either LIN24 or LIN25 is present, then the other is required.
12. P2627 - If either LIN26 or LIN27 is present, then the other is required.
13. P2829 - If either LIN28 or LIN29 is present, then the other is required.
14. P3031 - If either LIN30 or LIN31 is present, then the other is required.

Semantics:

1. LIN01 is the line item identification

SN1 Item Detail (Shipment)

Pos: 0300	Max: 1
Detail - Optional	
Loop: HL	Elements: 2

User Option (Usage): Used

Purpose: To specify line-item detail relative to shipment

This segment, at the pack level, is used only to specify the number of cases identified by the GTIN Case Code in the previous LIN segment. The LIN segment in the item level is used to indicate the individual consumer units for the case code.

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
SN102	382	Number of Units Shipped	M	R	1/10	Must use
Description: Numeric value of units shipped in manufacturer's shipping units for a line item or transaction set						
SN103	355	Unit or Basis for Measurement Code	M	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						
CodeList Summary (Total Codes: 884, Included: 1)						
		<u>Code</u>		<u>Name</u>		
		CA		Case		

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.
2. SN105 is quantity ordered.

MAN Marks and Numbers Information

Pos: 1900	Max: >1
Detail - Optional	
Loop: HL	Elements: 2

User Option (Usage): Used

Purpose: To indicate identifying marks and numbers for shipping containers

When the shipping container is the same as the consumer unit, the GTIN may be the only GS1 identification code on the container. In many applications, it is necessary to positively identify what identification code is to be scanned and matched at point of receipt.

Since the GTIN is not a unique serial shipping container code, only one pack level for each item is required when using the pick and pack structure.

The total number of shipping units for this item is the same as the quantity for the item in the SN1 segment at the item level.

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
MAN01	88	Marks and Numbers Qualifier	M	ID	1/2	Must use

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

CodeList Summary (Total Codes: 28, Included: 5)

Code	Name
E1	Electronic Product Code (ePC) Serial Shipping Container Code (SSCC) Description: Trade Item with ePC tag marked with SSCC value
E2	Electronic Product Code (ePC) and Bar Code Serial Shipping Container Code (SSCC) Description: Trade Item with dual marking for barcode and ePC, with SSCC value
E3	Electronic Product Code (ePC) and Bar Code Serial Shipping Container Code (SSCC) with Application Identifier (AI) Description: Trade Item with dual marking for barcode and ePC, with SSCC and AI value
GM	EAN.UCC Serial Shipping Container Code (SSCC) and Application Identifier <i>This is a twenty-character GS1-128 Serial Shipping Container Code (SSCC-18) that includes the two digit application identifier. The symbology code and the modulo 103 check digit are not included. See External Code Source 98 in Section III for reference document.</i>
SI	Self-Identifying Container via Radio Frequency ID Device Description: Inbound containers that do not need manual routing

MAN02	87	Marks and Numbers	M	AN	1/48	Must use
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Description: Marks and numbers used to identify a shipment or parts of a shipment

Syntax Rules:

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

Semantics:

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

Loop Item

Pos: 0100	Repeat: 200000
Mandatory	
Loop: HL	Elements: N/A

User Option (Usage): Must use

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

Loop Summary:

<u>Pos</u>	<u>Id</u>	<u>Segment Name</u>	<u>Req</u>	<u>Max Use</u>	<u>Repeat</u>	<u>Usage</u>
0100	HL	Hierarchical Level	M	1		Must use
0200	LIN	Item Identification	O	1		Used
0300	SN1	Item Detail (Shipment)	O	1		Used
0600	PO4	Item Physical Details	O	1		Used
0700	PID	Product/Item Description	O	200		Used
1400	TD4	Carrier Details (Special Handling, or Hazardous Materials, or Both)	O	5		Used
1500	REF	Reference Information	O	>1		Used
2000	DTM	Date/Time Reference	O	10		Used

HL Hierarchical Level

Pos: 0100	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

The HL segment is used to identify levels of detail information using a hierarchical structure. HL01 shall contain a unique number for each occurrence of the HL segment within the transaction set. The value assigned to the first HL segment will be 1, and is incremented by one for each subsequent HL segment within the transaction set.

HL02 identifies the hierarchical ID of the HL segment to which it is subordinate (child of).

HL02 will be omitted for the first occurrence of the HL segment in the transaction set, since it has no parent. HL03 identifies the application content of the series of segments following the current HL segment up to the next occurrence of an HL segment, or the CTT or SE segment, e.g., Shipment, Unit Load, Order, Tare, Pack and Item.

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
HL01	628	Hierarchical ID Number	M	AN	1/12	Must use
Description: A unique number assigned by the sender to identify a particular data segment in a hierarchical structure						
HL02	734	Hierarchical Parent ID Number	O	AN	1/12	Must use
Description: Identification number of the next higher hierarchical data segment that the data segment being described is subordinate to						
HL03	735	Hierarchical Level Code	M	ID	1/2	Must use
Description: Code defining the characteristic of a level in a hierarchical structure						
CodeList Summary (Total Codes: 250, Included: 1)						
		<u>Code</u>		<u>Name</u>		
		I		Item		

LIN Item Identification

Pos: 0200	Max: 1
Detail - Optional	
Loop: HL	Elements: 8

User Option (Usage): Used

Purpose: To specify basic item identification data

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
LIN02	235	Product/Service ID Qualifier	M	ID	2/2	Must use

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

CodeList Summary (Total Codes: 530, Included: 6)

<u>Code</u>	<u>Name</u>
EN	GTIN EAN/UCC - 13 Digit Data Structure Description: Data structure for the 13 digit EAN.UCC (EAN International.Uniform Code Council) Global Trade Item Number (GTIN)
EO	GTIN EAN/UCC - 8 Digit Data Structure Description: Data structure for the 8 digit EAN.UCC (EAN International.Uniform Code Council) Global Trade Item Number (GTIN)
IN	Buyer's Item Number
UK	GTIN 14-digit Data Structure Description: Data structure for the 14 digit EAN.UCC (EAN International.Uniform Code Council) Global Trade Item Number (GTIN)
UP	GTIN UCC - 12 Digit Data Structure Description: Data structure for the 12 digit EAN.UCC (EAN International.Uniform Code Council) Global Trade Item Number (GTIN). Also known as the Universal Product Code (U.P.C.)
VN	Vendor's (Seller's) Item Number <i>Trading partners are strongly encouraged to use GTIN as the only method of positively and unambiguously identifying a product. Trading Partners who do not have a GS1 Canada Company Prefix, contact GS1 Canada.</i>

LIN03	234	Product/Service ID	M	AN	1/48	Must use
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Description: Identifying number for a product or service

LIN04	235	Product/Service ID Qualifier	X	ID	2/2	Used
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Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234)

CodeList Summary (Total Codes: 530, Included: 6)

<u>Code</u>	<u>Name</u>
EN	GTIN EAN/UCC - 13 Digit Data Structure Description: Data structure for the 13 digit EAN.UCC (EAN International.Uniform Code Council) Global Trade Item Number (GTIN)
EO	GTIN EAN/UCC - 8 Digit Data Structure Description: Data structure for the 8 digit EAN.UCC (EAN International.Uniform Code Council) Global Trade Item Number (GTIN)
IN	Buyer's Item Number
UK	GTIN 14-digit Data Structure Description: Data structure for the 14 digit EAN.UCC (EAN International.Uniform Code Council) Global Trade Item Number (GTIN)
UP	GTIN UCC - 12 Digit Data Structure Description: Data structure for the 12 digit EAN.UCC (EAN International.Uniform Code Council) Global Trade Item Number (GTIN).

Also known as the Universal Product Code (U.P.C.)

VN Vendor's (Seller's) Item Number

*Trading partners are strongly encouraged to use GTIN as the only method of positively and unambiguously identifying a product.
Trading Partners who do not have a GS1 Canada Company Prefix, contact GS1 Canada.*

LIN05 234 **Product/Service ID** X AN 1/48 Used

Description: Identifying number for a product or service

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

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

CodeList Summary (Total Codes: 530, Included: 6)

- | <u>Code</u> | <u>Name</u> |
|-------------|---|
| EN | GTIN EAN/UCC - 13 Digit Data Structure
Description: Data structure for the 13 digit EAN.UCC (EAN International.Uniform Code Council) Global Trade Item Number (GTIN) |
| EO | GTIN EAN/UCC - 8 Digit Data Structure
Description: Data structure for the 8 digit EAN.UCC (EAN International.Uniform Code Council) Global Trade Item Number (GTIN) |
| IN | Buyer's Item Number |
| UK | GTIN 14-digit Data Structure
Description: Data structure for the 14 digit EAN.UCC (EAN International.Uniform Code Council) Global Trade Item Number (GTIN) |
| UP | GTIN UCC - 12 Digit Data Structure
Description: Data structure for the 12 digit EAN.UCC (EAN International.Uniform Code Council) Global Trade Item Number (GTIN).
<i>Also known as the Universal Product Code (U.P.C.)</i> |

VN Vendor's (Seller's) Item Number

*Trading partners are strongly encouraged to use GTIN as the only method of positively and unambiguously identifying a product.
Trading Partners who do not have a GS1 Canada Company Prefix, contact GS1 Canada.*

LIN07 234 **Product/Service ID** X AN 1/48 Used

Description: Identifying number for a product or service

LIN08 235 **Product/Service ID Qualifier** X ID 2/2 Used

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

CodeList Summary (Total Codes: 530, Included: 6)

- | <u>Code</u> | <u>Name</u> |
|-------------|--|
| EN | GTIN EAN/UCC - 13 Digit Data Structure
Description: Data structure for the 13 digit EAN.UCC (EAN International.Uniform Code Council) Global Trade Item Number (GTIN) |
| EO | GTIN EAN/UCC - 8 Digit Data Structure
Description: Data structure for the 8 digit EAN.UCC (EAN International.Uniform Code Council) Global Trade Item Number (GTIN) |
| IN | Buyer's Item Number |
| UK | GTIN 14-digit Data Structure
Description: Data structure for the 14 digit EAN.UCC (EAN International.Uniform Code Council) Global Trade Item Number (GTIN) |
| UP | GTIN UCC - 12 Digit Data Structure
Description: Data structure for the 12 digit EAN.UCC (EAN International.Uniform Code Council) Global Trade Item Number (GTIN). |

VN *Also known as the Universal Product Code (U.P.C.)*
Vendor's (Seller's) Item Number

Trading partners are strongly encouraged to use GTIN as the only method of positively and unambiguously identifying a product.

Trading Partners who do not have a GS1 Canada Company Prefix, contact GS1 Canada.

LIN09	234	Product/Service ID	X	AN	1/48	Used
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Description: Identifying number for a product or service

Syntax Rules:

1. P0405 - If either LIN04 or LIN05 is present, then the other is required.
2. P0607 - If either LIN06 or LIN07 is present, then the other is required.
3. P0809 - If either LIN08 or LIN09 is present, then the other is required.
4. P1011 - If either LIN10 or LIN11 is present, then the other is required.
5. P1213 - If either LIN12 or LIN13 is present, then the other is required.
6. P1415 - If either LIN14 or LIN15 is present, then the other is required.
7. P1617 - If either LIN16 or LIN17 is present, then the other is required.
8. P1819 - If either LIN18 or LIN19 is present, then the other is required.
9. P2021 - If either LIN20 or LIN21 is present, then the other is required.
10. P2223 - If either LIN22 or LIN23 is present, then the other is required.
11. P2425 - If either LIN24 or LIN25 is present, then the other is required.
12. P2627 - If either LIN26 or LIN27 is present, then the other is required.
13. P2829 - If either LIN28 or LIN29 is present, then the other is required.
14. P3031 - If either LIN30 or LIN31 is present, then the other is required.

Semantics:

1. LIN01 is the line item identification

SN1 Item Detail (Shipment)

Pos: 0300 Max: 1
 Detail - Optional
 Loop: HL Elements: 2

User Option (Usage): Used

Purpose: To specify line-item detail relative to shipment

This segment is used to specify the quantities associated with the item identified in the LIN at the item level.

When specifying an item, which is comprised of two or more components that are in unique shipping containers, SN103 will contain code ST for set and the quantity specified in SN102 is the number of sets as identified in the LIN segment. Each different component is identified in one pack level. See the notes in the SLN segment at the pack level.

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
SN102	382	Number of Units Shipped	M	R	1/10	Must use
Description: Numeric value of units shipped in manufacturer's shipping units for a line item or transaction set						
SN103	355	Unit or Basis for Measurement Code	M	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						

CodeList Summary (Total Codes: 884, Included: 15)

<u>Code</u>	<u>Name</u>
BA	Bale
BG	Bag
BO	Bottle
BX	Box
CA	Case
CN	Can
CT	Carton
DS	Display
DZ	Dozen
EA	Each
KG	Kilogram
LB	Pound
PK	Package
PL	Pallet/Unit Load
RL	Roll

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.
2. SN105 is quantity ordered.

PO4 Item Physical Details

Pos: 0600	Max: 1
Detail - Optional	
Loop: HL	Elements: 6

User Option (Usage): Used

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

This segment is used to specify the packaging of the item in the case or carton. There may be two levels of packaging specified. The first level is always specified by using PO401 (Pack).

The first level may be actual items, e.g., consumer units, or it may be the number of smaller containers within the case. The second level, specified using PO414 (Inner Pack), is the number of eaches in each inner container when PO401 is the number of smaller containers within the case. See Section V -Pack/Inner Pack Usage, for usage examples.

This segment can be used to specify the weight for the item by using PO406 and PO407, and to specify the volume (cube) by using PO408 and PO409.

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
PO401	356	Pack	O	NO	1/6	Used
		Description: The number of inner containers, or number of eaches if there are no inner containers, per outer container				
PO406	384	Gross Weight per Pack	X	R	1/9	Used
		Description: Numeric value of gross weight per pack				
PO407	355	Unit or Basis for Measurement Code	X	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				
		CodeList Summary (Total Codes: 884, Included: 3)				
		<u>Code</u>		<u>Name</u>		
		2W		Bin		
				Description: Storage container used as a unit of measurement		
		KG		Kilogram		
		LB		Pound		
PO408	385	Gross Volume per Pack	X	R	1/9	Used
		Description: Numeric value of gross volume per pack				
PO409	355	Unit or Basis for Measurement Code	X	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				
		CodeList Summary (Total Codes: 884, Included: 160)				
		<u>Code</u>		<u>Name</u>		
		12		Packet		
		15		Stick		
		1N		Count		
		26		Actual Tons		
		2W		Bin		
				Description: Storage container used as a unit of measurement		
		50		Actual Kilograms		
		AF		Centigram		
				Description: A unit of metric weight equal to 0.01 gram or 0.000035 ounce		
		AM		Ampoule		

AR	Suppository
AS	Assortment
AV	Capsule Description: <i>A compact metallic or plastic container for liquids or solids</i>
AZ	British Thermal Units (BTUs) per Pound
BA	Bale
BF	Board Feet
BG	Bag
BK	Book
BO	Bottle
BP	100 Board Feet
BR	Barrel
BX	Box
C3	Centiliter
CA	Case
CC	Cubic Centimeter
CE	Centigrade, Celsius <i>Degrees</i>
CF	Cubic Feet
CH	Container
CI	Cubic Inches
CM	Centimeter
CN	Can
CR	Cubic Meter
CT	Carton
CW	Hundred Pounds (CWT)
CX	Coil
CY	Cubic Yard
D1	Dollars, Canadian
DA	Days
DC	Disk (Disc)
DD	Degree
DG	Decigram
DL	Deciliter
DM	Decimeter
DO	Dollars, U.S.
DR	Drum
DS	Display
DZ	Dozen
EA	Each
EP	Eleven pack
F2	International Unit Description: <i>A unit accepted by an international agency; potency of a drug/vitamin based on a specific weight of that drug/vitamin</i>
FA	Fahrenheit <i>Degrees</i>
FG	Transdermal Patch Description: <i>A drug delivery system which is placed on the skin and releases a drug at a constant rate through the skin</i>
FO	Fluid Ounce
FT	Foot <i>Feet</i>
FZ	Fluid Ounce (Imperial) Description: <i>A liquid unit of measure equal to 1/20 (.05) pint (Imperial), 28.416 cubic centimeters, or 28.416 milliliters</i>

GA	Gallon
GN	Gross Gallons
GR	Gram
GS	Gross
H3	18-Pack
H5	22-Pack
H6	30-Pack
H7	38-Pack
H8	62-Pack
H9	75-Pack
HC	Hundred Count
HL	Hundred Feet - Linear
HR	Hours
HS	Hundred Square Feet
IH	Inhaler Description: <i>Metered-dose pressurized method of getting medication into the lungs or nasal passages</i>
IN	Inch
J1	80-Pack
J3	81-Pack
J4	82-Pack
J5	84-Pack
J6	85-Pack
J7	96-Pack
J8	5000-Pack
J9	Left Unit
JC	Caplet Description: <i>To denote items in caplet form</i>
JL	Refill Description: <i>Refers to the number of refill units in a package</i>
JN	Pan Description: <i>Refers to items in a pan (such as eye shadow) and would be associated with the number of different colors</i>
JP	Prepack Description: <i>To indicate this is "n" assortment product with different UPC codes on it</i>
JS	Use Description: <i>Refers to the number of uses from a product (such as a box of laundry detergent that provides sixty washes)</i>
JT	Tin Description: <i>Refers to giftware products in a tin</i>
JV	Ovule Description: <i>Refers to products which come in "ovule" form</i>
JX	Exposure Description: <i>To be used to indicate the number of exposures on a roll of film</i>
KE	Keg Description: <i>A unit of weight equal to 100 pounds, used for nails</i>
KG	Kilogram
KT	Kit
L1	Right Unit
LB	Pound
LF	Linear Foot <i>Running Feet</i>
LT	Liter
LY	Linear Yard

Running Yard

M4	Monetary Value
MC	Microgram
ME	Milligram
MJ	Minutes
ML	Milliliter
MM	Millimeter
MO	Months
MR	Meter
NG	Net Gallons
OP	Two pack
OZ	Ounce - Av
P1	Percent
P3	Three pack
P4	Four-pack
P5	Five-pack
P6	Six pack
P7	Seven pack
P8	Eight-pack
P9	Nine pack
PC	Piece
PD	Pad
PF	Pallet (Lift)
PH	Pack (PAK)
PK	Package
PL	Pallet/Unit Load
PR	Pair
PT	Pint
QB	Pages - Hardcopy Description: <i>Number of printed pages delivered</i>
QT	Quart
RL	Roll
S9	Slip Sheet Description: <i>A cardboard platform used for holding product for storage or transportation</i>
SH	Sheet
ST	Set
SX	Shipment
SY	Square Yard
SZ	Syringe Description: <i>Glass or plastic barrels used to administer fluid medication under the skin, into a vein artery, or into a muscle</i>
TB	Tube
TC	Truckload
TE	Tote
TH	Thousand
TK	Tank
TM	Thousand Feet (Board)
TP	Ten-pack
TS	Thousand Square Feet
U2	Tablet Description: <i>A compressed or molded block of solid material; a collection of sheet paper glued together at one edge</i>
UN	Unit

V2	Pouch
VI	Vial
WG	Wine Gallon
Y4	Tub
	Description: <i>A measure used to identify a storage container</i>
YD	Yard
YR	Years
Z7	13-pack Marketing
Z9	14-pack Marketing
ZF	16-pack Marketing
ZG	48-pack Component Parts
ZH	51-pack Component Parts
ZI	52-pack Component Parts
ZJ	60-pack Gift Packs
ZK	72-pack Gift Packs
ZL	83-pack Gift Packs
ZM	10-pack Marketing
ZN	120-pack Promotional
ZO	150-pack Component Parts
ZQ	200-pack Component Parts
ZR	1000-pack Component Parts
ZS	15-Pack

PO414 810 **Inner Pack** O N0 1/6 Used

Description: The number of eaches per inner container

Syntax Rules:

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

PID Product/Item Description

Pos: 0700	Max: 200
Detail - Optional	
Loop: HL	Elements: 3

User Option (Usage): Used

Purpose: To describe a product or process in coded or free-form format

The PID segment is used to provide product/item descriptions in text and or coded formats. The codes in PID04 are published only in this guideline.

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
PID01	349	Item Description Type	M	ID	1/1	Must use

Description: Code indicating the format of a description

CodeList Summary (Total Codes: 3, Included: 1)

<u>Code</u>	<u>Name</u>
F	Free-form

The description will be found in PID05.

PID02	750	Product/Process Characteristic Code	O	ID	2/3	Used
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Description: Code identifying the general class of a product or process characteristic

CodeList Summary (Total Codes: 260, Included: 1)

<u>Code</u>	<u>Name</u>
08	Product

PID05	352	Description	X	AN	1/80	Used
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Description: A free-form description to clarify the related data elements and their content

Syntax Rules:

1. C0403 - If PID04 is present, then PID03 is required.
2. C0703 - If PID07 is present, then PID03 is required.
3. C0804 - If PID08 is present, then PID04 is required.
4. C0905 - If PID09 is present, then PID05 is required.
5. R0405 - At least one of PID04 or PID05 is required.

Semantics:

1. Use PID03 to indicate the organization that publishes the code list being referred to.
2. PID04 should be used for industry-specific product description codes.
3. PID08 describes the physical characteristics of the product identified in PID04. A "Y" indicates that the specified attribute applies to this item; an "N" indicates it does not apply. Any other value is indeterminate.
4. PID09 is used to identify the language being used in PID05.

TD4 Carrier Details (Special Handling, or Hazardous Materials, or Both)

Pos: 1400	Max: 5
Detail - Optional	
Loop: HL	Elements: 3

User Option (Usage): Used

Purpose: To specify transportation special handling requirements, or hazardous materials information, or both

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
TD401	152	Special Handling Code	X	ID	2/3	Used

Description: Code specifying special transportation handling instructions
See Section III for code list.

CodeList Summary (Total Codes: 575, Included: 12)

Code	Name
CO	No Marshalling Required for Hazardous Materials
DA	Dangerous
EX	Explosive Flammable Gas
FG	Flammable Gas
FL	Flammable
FP	Flammable Poison Gas
HM	Endorsed as Hazardous Material
NW	In Case of Fire Do Not Use Water
PG	Poisonous Gas
RM	Radioactive Material
UN	Unload as Placarded
NPR	No Placards Required

TD402	208	Hazardous Material Code Qualifier	X	ID	1/1	Used
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Description: Code which qualifies the Hazardous Material Class Code (209)

CodeList Summary (Total Codes: 14, Included: 2)

Code	Name
9	Title 49, Code of Federal Regulations (CFR) See External Code Source 52 in Section III for reference document.
U	United Nations See External Code Source 53 in Section III for reference document.

TD403	209	Hazardous Material Class Code	X	AN	1/4	Used
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Description: Code specifying the kind of hazard for a material

Syntax Rules:

1. C0203 - If TD402 is present, then TD403 is required.
2. R010204 - At least one of TD401, TD402 or TD404 is required.

Semantics:

1. TD405 identifies if a Material Safety Data Sheet (MSDS) exists for this product. A "Y" indicates an MSDS exists for this product; an "N" indicates an MSDS does not exist for this product.

REF Reference Information

Pos: 1500	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>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
REF01	128	Reference Identification Qualifier	M	ID	2/3	Must use

Description: Code qualifying the Reference Identification

CodeList Summary (Total Codes: 1767, Included: 2)

<u>Code</u>	<u>Name</u>
CO	Customer Order Number
	<i>Customer of retailer</i>
SE	Serial Number

REF02	127	Reference Identification	X	AN	1/80	Must use
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Description: Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier

Syntax Rules:

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

Semantics:

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

DTM Date/Time Reference

Pos: 2000	Max: 10
Detail - Optional	
Loop: HL	Elements: 2

User Option (Usage): Used

Purpose: To specify pertinent dates and times

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
DTM01	374	Date/Time Qualifier	M	ID	3/3	Must use

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

CodeList Summary (Total Codes: 1288, Included: 1)

<u>Code</u>	<u>Name</u>
036	Expiration

Description: *Date coverage expires*

Used for perishable products

DTM02	373	Date	X	DT	8/8	Must use
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Description: Date expressed as CCYYMMDD where CC represents the first two digits of the calendar year

Syntax Rules:

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

CTT Transaction Totals

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

User Option (Usage): Used

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

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
CTT01	354	Number of Line Items	M	NO	1/6	Must use

Description: Total number of line items in the transaction set
The number of HL segments present in the transaction set

Syntax Rules:

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

Comments:

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

SE Transaction Set Trailer

Pos: 0200	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:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
SE01	96	Number of Included Segments	M	NO	1/10	Must use
		Description: Total number of segments included in a transaction set including ST and SE segments				
SE02	329	Transaction Set Control Number	M	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 <i>This must be the same number as is in the ST segment (ST02) for the transaction set.</i>				

Comments:

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