



856 Ship Notice/Manifest

X12/V4010/856 : 856 Ship Notice/Manifest

Version: 2.0 Final

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N1	Name	59
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N3	Address Information	61
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PAL	Pallet Information	70
N1	Name	72
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LIN	Item Identification	74
SN1	Item Detail (Shipment)	76
PO4	Item Physical Details	77
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DTM	Date/Time Reference	80
DTM	Date/Time Reference	81
DTM	Date/Time Reference	82
DTM	Date/Time Reference	83
HL	Hierarchical Level	84
LIN	Item Identification	85
SN1	Item Detail (Shipment)	88
PO4	Item Physical Details	90
PID	Product/Item Description	92
REF	Reference Identification	93
REF	Reference Identification	94
REF	Reference Identification	95
REF	Reference Identification	96
DTM	Date/Time Reference	97
DTM	Date/Time Reference	98
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856 Ship Notice/Manifest

Functional Group=SH

Purpose: This Draft Standard for Trial Use contains the format and establishes the data contents of the Ship Notice/Manifest Transaction Set (856) for use within the context of an Electronic Data Interchange (EDI) environment. The transaction set can be used to list the contents of a shipment of goods as well as additional information relating to the shipment, such as order information, product description, physical characteristics, type of packaging, marking, carrier information, and configuration of goods within the transportation equipment. The transaction set enables the sender to describe the contents and configuration of a shipment in various levels of detail and provides an ordered flexibility to convey information. The sender of this transaction is the organization responsible for detailing and communicating the contents of a shipment, or shipments, to one or more receivers of the transaction set. The receiver of this transaction set can be any organization having an interest in the contents of a shipment or information about the contents of a shipment.

Not Defined:

<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>
	ISA	Interchange Control Header	M	1			Must use
	GS	Functional Group Header	M	1			Must use

Heading:

<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>
010	ST	Transaction Set Header	M	1			Must use
020	BSN	Beginning Segment for Ship Notice	M	1			Must use

Detail:

<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>
LOOP ID - HL					200000	CN2/010L	
010	HL	Hierarchical Level	M	1		C2/010	Must use
110	TD1	Carrier Details (Quantity and Weight)	O	20			Must use
120	TD5	Carrier Details (Routing Sequence/Transit Time)	O	12			Must use
130	TD3	Carrier Details (Equipment)	O	1			Used
140	TD4	Carrier Details (Special Handling, or Hazardous Materials, or Both)	O	5			Used
150	REF	Reference Identification	O	>1			Used
150	REF	Reference Identification	O	>1			Used
150	REF	Reference Identification	O	>1			Used
150	REF	Reference Identification	O	>1			Used
150	REF	Reference Identification	O	>1			Used
150	REF	Reference Identification	O	>1			Used
150	REF	Reference Identification	O	>1			Used
150	REF	Reference Identification	O	>1			Used
200	DTM	Date/Time Reference	O	10			Used
200	DTM	Date/Time Reference	O	10			Must use
200	DTM	Date/Time Reference	O	10			Must use

<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>
200	DTM	Date/Time Reference	O	10			Used
200	DTM	Date/Time Reference	O	10			Used
200	DTM	Date/Time Reference	O	10			Used
200	DTM	Date/Time Reference	O	10			Used
200	DTM	Date/Time Reference	O	10			Used
210	FOB	F.O.B. Related Instructions	O	1			Must use
<u>LOOP ID - N1</u>					<u>200</u>		
220	N1	Name	O	1			Must use
240	N3	Address Information	O	2			Must use
250	N4	Geographic Location	O	1			Must use
<u>LOOP ID - N1</u>					<u>200</u>		
220	N1	Name	O	1			Must use
240	N3	Address Information	O	2			Must use
250	N4	Geographic Location	O	1			Must use
<u>LOOP ID - N1</u>					<u>200</u>		
220	N1	Name	O	1			Used
<u>LOOP ID - N1</u>					<u>200</u>		
220	N1	Name	O	1			Used
240	N3	Address Information	O	2			Used
250	N4	Geographic Location	O	1			Used
<u>LOOP ID - SAC</u>					<u>>1</u>		
320	SAC	Service, Promotion, Allowance, or Charge Information	O	1			Used
<u>LOOP ID - V1</u>					<u>>1</u>		
360	V1	Vessel Identification	O	1			Used
370	R4	Port or Terminal	O	>1			Used
370	R4	Port or Terminal	O	>1			Used
370	R4	Port or Terminal	O	>1			Used
370	R4	Port or Terminal	O	>1			Used
<u>LOOP ID - HL</u>					<u>200000</u>	<u>CN2/010L</u>	
010	HL	Hierarchical Level	M	1		C2/010	Must use
050	PRF	Purchase Order Reference	O	1			Must use
150	REF	Reference Identification	O	>1			Must use
150	REF	Reference Identification	O	>1			Used
<u>LOOP ID - N1</u>					<u>200</u>		
220	N1	Name	O	1			Used
240	N3	Address Information	O	2			Used
250	N4	Geographic Location	O	1			Used
<u>LOOP ID - N1</u>					<u>200</u>		
220	N1	Name	O	1			Used
<u>LOOP ID - N1</u>					<u>200</u>		

<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>
220	N1	Name	O	1			Used
240	N3	Address Information	O	2			Used
250	N4	Geographic Location	O	1			Used
270	PER	Administrative Communications Contact	O	3			Used
<u>LOOP ID - HL</u>					<u>200000</u>	<u>CN2/010L</u>	
010	HL	Hierarchical Level	O	1		C2/010	Used
190	MAN	Marks and Numbers	O	>1			Must use
200	DTM	Date/Time Reference	O	10			Used
200	DTM	Date/Time Reference	O	10			Used
200	DTM	Date/Time Reference	O	10			Used
200	DTM	Date/Time Reference	O	10			Used
215	PAL	Pallet Information	O	1			Must use
<u>LOOP ID - N1</u>					<u>200</u>		
220	N1	Name	O	1			Used
<u>LOOP ID - HL</u>					<u>200000</u>	<u>CN2/010L</u>	
010	HL	Hierarchical Level	O	1		C2/010	Used
020	LIN	Item Identification	O	1			Used
030	SN1	Item Detail (Shipment)	O	1			Used
060	PO4	Item Physical Details	O	1			Used
190	MAN	Marks and Numbers	O	>1			Must use
200	DTM	Date/Time Reference	O	10			Used
200	DTM	Date/Time Reference	O	10			Used
200	DTM	Date/Time Reference	O	10			Used
200	DTM	Date/Time Reference	O	10			Used
<u>LOOP ID - HL</u>					<u>200000</u>	<u>CN2/010L</u>	
010	HL	Hierarchical Level	M	1		C2/010	Used
020	LIN	Item Identification	O	1			Must use
030	SN1	Item Detail (Shipment)	O	1			Used
060	PO4	Item Physical Details	O	1			Used
070	PID	Product/Item Description	O	200			Used
150	REF	Reference Identification	O	>1			Used
150	REF	Reference Identification	O	>1			Must use
150	REF	Reference Identification	O	>1			Must use
150	REF	Reference Identification	O	>1			Used
200	DTM	Date/Time Reference	O	10			Used
200	DTM	Date/Time Reference	O	10			Used
200	DTM	Date/Time Reference	O	10			Used
200	DTM	Date/Time Reference	O	10			Used
200	DTM	Date/Time Reference	O	10			Used

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>
010	CTT	Transaction Totals	O	1		N3/010	Must use
020	SE	Transaction Set Trailer	M	1			Must use

Not Defined:

<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>
	GE	Functional Group Trailer	M	1			Must use
	IEA	Interchange Control Trailer	M	1			Must use

Notes:

2/010L Shipment Level

2/010L Shipment Level

2/010L Shipment Level

2/010L Shipment Level

2/010L Shipment Level

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

ISA Interchange Control Header

Pos:	Max: 1
Not Defined - Mandatory	
Loop: N/A	Elements: 16

User Option (Usage): Must use

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

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
ISA01	I01	Authorization Information Qualifier	M	ID	2/2	Must use
Code List Summary (Total Codes: 7, Included: 1)						
<u>Code</u> <u>Name</u>						
00 No Authorization Information Present (No Meaningful Information in I02)						
ISA02	I02	Authorization Information	M	AN	10/10	Must use
ISA03	I03	Security Information Qualifier	M	ID	2/2	Must use
Code List Summary (Total Codes: 2, Included: 1)						
<u>Code</u> <u>Name</u>						
00 No Security Information Present (No Meaningful Information in I04)						
ISA04	I04	Security Information	M	AN	10/10	Must use
ISA05	I05	Interchange ID Qualifier	M	ID	2/2	Must use
All valid standard codes are used. (Total Codes: 38)						
ISA06	I06	Interchange Sender ID	M	AN	15/15	Must use
ISA07	I05	Interchange ID Qualifier	M	ID	2/2	Must use
All valid standard codes are used. (Total Codes: 38)						
ISA08	I07	Interchange Receiver ID	M	AN	15/15	Must use
ISA09	I08	Interchange Date	M	DT	6/6	Must use
ISA10	I09	Interchange Time	M	TM	4/4	Must use
ISA11	I10	Interchange Control Standards Identifier	M	ID	1/1	Must use
All valid standard codes are used. (Total Codes: 1)						
ISA12	I11	Interchange Control Version Number	M	ID	5/5	Must use
Code List Summary (Total Codes: 14, Included: 1)						
<u>Code</u> <u>Name</u>						
00401 Draft Standards for Trial Use Approved for Publication by ASC X12 Procedures Review Board through October 1997						
ISA13	I12	Interchange Control Number	M	N0	9/9	Must use
ISA14	I13	Acknowledgment Requested	M	ID	1/1	Must use

Code List Summary (Total Codes: 2, Included: 1)

Code Name

0 No Acknowledgment Requested

ISA15	I14	Usage Indicator	M	ID	1/1	Must use
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Code List Summary (Total Codes: 3, Included: 1)

Code Name

P Production Data

ISA16	I15	Component Element Separator	M		1/1	Must use
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Example:

```
ISA*00*      *00*      *??*SENDER ID  *??*RECEIVERID  *231025*0914*U*00401*000009567*0*P*>
```

GS Functional Group Header

Pos:	Max: 1
Not Defined - Mandatory	
Loop: N/A	Elements: 8

User Option (Usage): Must use

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

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
GS01	479	Functional Identifier Code	M	ID	2/2	Must use

Code List Summary (Total Codes: 240, Included: 1)

Code Name

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GS02	142	Application Sender's Code	M	AN	2/15	Must use
GS03	124	Application Receiver's Code	M	AN	2/15	Must use
GS04	373	Date	M	DT	8/8	Must use
GS05	337	Time	M	TM	4/8	Must use
GS06	28	Group Control Number	M	N0	1/9	Must use
GS07	455	Responsible Agency Code	M	ID	1/2	Must use

Code List Summary (Total Codes: 2, Included: 1)

Code Name

X Accredited Standards Committee X12

GS08	480	Version / Release / Industry Identifier Code	M	AN	1/12	Must use
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Code List Summary (Total Codes: 39, Included: 1)

Code Name

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

Semantics:

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

Comments:

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

Example:

```
GS*SH*SENDER ID *RECEIVERID*20231025*0914*9567*X*004010
```

ST Transaction Set Header

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

User Option (Usage): Must use

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

Element Summary:

<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

Code List Summary (Total Codes: 298, Included: 1)

Code Name

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ST02	329	Transaction Set Control Number	M	AN	4/9	Must use
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Semantics:

1. The transaction set identifier (ST01) used by the translation routines of the interchange partners to select the appropriate transaction set definition (e.g., 810 selects the Invoice Transaction Set).

Example:

ST*856*0001

BSN Beginning Segment for Ship Notice

Pos: 020	Max: 1
Heading - Mandatory	
Loop: N/A	Elements: 6

User Option (Usage): Must use

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

Element Summary:

<u>Ref</u>	<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

Code List Summary (Total Codes: 65, Included: 4)

<u>Code</u>	<u>Name</u>
00	Original
01	Cancellation
05	Replace
17	Cancel, to be Reissued

BSN02	396	Shipment Identification	M	AN	2/30	Must use
BSN03	373	Date	M	DT	8/8	Must use
BSN04	337	Time	M	TM	4/8	Must use
BSN05	1005	Hierarchical Structure Code	O	ID	4/4	Must use

Code List Summary (Total Codes: 61, Included: 1)

<u>Code</u>	<u>Name</u>
0001	Shipment, Order, Packaging, Item

Costco Note:

0001 =
SOPI
SOIP
SOTI
SOTPI

BSN06	640	Transaction Type Code	X	ID	2/2	Used
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Code List Summary (Total Codes: 446, Included: 5)

<u>Code</u>	<u>Name</u>
33	Normal
AD	Notice of Availability
AS	Shipment Advice
DT	Detail
ZW	Sort and Segregate Detail

Syntax Rules:

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

Semantics:

1. BSN03 is the date the shipment transaction set is created.
2. BSN04 is the time the shipment transaction set is created.

3. BSN06 is limited to shipment related codes.

Comments:

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

Example:

*BSN*00*123456789123456789*20151204*1429*0001*33*

HL Hierarchical Level

Pos: 010	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

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
HL03	735	Hierarchical Level Code	M	ID	1/2	Must use

Code List Summary (Total Codes: 170, 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.

Example:

*HL*1**S*

TD1 Carrier Details (Quantity and Weight)

Pos: 110	Max: 20
Detail - Optional	
Loop: HL	Elements: 7

User Option (Usage): Must use

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

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	Must use
Code List Summary - Part 1/2 (Total Codes: 148, Included: 2)						
<u>Code</u> <u>Name</u>						
CTN Carton						
PLT Pallet						
TD102	80	Lading Quantity	X	N0	1/7	Must use
TD106	187	Weight Qualifier	O	ID	1/2	Must use
Code List Summary (Total Codes: 51, Included: 1)						
<u>Code</u> <u>Name</u>						
G Gross Weight						
TD107	81	Weight	X	R	1/10	Must use
TD108	355	Unit or Basis for Measurement Code	X	ID	2/2	Must use
Code List Summary (Total Codes: 794, Included: 2)						
<u>Code</u> <u>Name</u>						
KG Kilogram						
LB Pound						
TD109	183	Volume	X	R	1/8	Must use
TD110	355	Unit or Basis for Measurement Code	X	ID	2/2	Must use
Code List Summary (Total Codes: 794, Included: 1)						
<u>Code</u> <u>Name</u>						
CF Cubic Feet						

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.

Example:

*TD1*CTN*5500****G*25166*LB*14*CF*

TD5 Carrier Details (Routing Sequence/Transit Time)

Pos: 120	Max: 12
Detail - Optional	
Loop: HL	Elements: 9

User Option (Usage): Must use

Purpose: To specify the carrier and sequence of routing and provide transit time 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>
TD501	133	Routing Sequence Code	O	ID	1/2	Used
All valid standard codes are used. (Total Codes: 23)						
TD502	66	Identification Code Qualifier	X	ID	1/2	Must use
Code List Summary (Total Codes: 215, Included: 1) <u>Code</u> <u>Name</u> 2 Standard Carrier Alpha Code (SCAC)						
TD503	67	Identification Code	X	AN	2/80	Must use
TD504	91	Transportation Method/Type Code	X	ID	1/2	Must use
Code List Summary (Total Codes: 71, Included: 6) <u>Code</u> <u>Name</u> A Air D Parcel Post M Motor (Common Carrier) S Ocean X Intermodal (Piggyback) LT Less Than Trailer Load (LTL)						
TD505	387	Routing	X	AN	1/35	Must use
TD506	368	Shipment/Order Status Code	X	ID	2/2	Must use
Code List Summary (Total Codes: 102, Included: 3) <u>Code</u> <u>Name</u> CC Shipment Complete on (Date) CM Shipment Complete with Additional Quantity CP Partial Shipment on (Date), Considered No Backorder						
TD510	732	Transit Time Direction Qualifier	O	ID	2/2	Used
Costco Element Note: Mandatory for Import Shipments.						
Code List Summary (Total Codes: 10, Included: 2) <u>Code</u> <u>Name</u> CD Calendar Days (Includes weekends and Holidays) HO Hours						
TD511	733	Transit Time	X	R	1/4	Used
Costco Element Note:						

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
		<i>Mandatory for Import Shipments.</i>				
TD512	284	Service Level Code	X	ID	2/2	Used
		Costco Element Note: <i>Mandatory for Small Package and Drop Shipments.</i>				
		All valid standard codes are used. (Total Codes: 66)				

Syntax Rules:

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

Semantics:

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

Comments:

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

Example:

```
TD5*B*2*FEXF*M*FEDEX FREIGHT*CC****CD*4*01
```

TD3 Carrier Details (Equipment)

Pos: 130	Max: 1
Detail - Optional	
Loop: HL	Elements: 5

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	Must use

Code List Summary (Total Codes: 134, Included: 10)

<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
HC	Hopper Car (Covered)
TF	Trailer, Dry Freight
TL	Trailer (not otherwise specified)
TW	Trailer, Refrigerated

TD302	206	Equipment Initial	O	AN	1/4	Used
TD303	207	Equipment Number	X	AN	1/10	Must use
TD309	225	Seal Number	O	AN	2/15	Used
TD310	24	Equipment Type	X	ID	4/4	Used

Syntax Rules:

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

Example:

TD3*20*FEXF*1212121212*****11111

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

Pos: 140	Max: 5
Detail - Optional	
Loop: HL	Elements: 4

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
Code List Summary (Total Codes: 526, Included: 2) <u>Code</u> <u>Name</u> HM Endorsed as Hazardous Material CCH Certification						
TD402	208	Hazardous Material Code Qualifier	X	ID	1/1	Used
Code List Summary (Total Codes: 13, Included: 2) <u>Code</u> <u>Name</u> D Hazardous Materials ID, DOT X Hazard Class or Division						
TD403	209	Hazardous Material Class Code	X	AN	1/4	Used
TD404	352	Description	X	AN	1/80	Must use

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.

Example:

*TD4*HM*D*3248*LIQUID INFLAMMABLE*

REF Reference Identification

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

User Option (Usage): Used

Purpose: To specify identifying information

Element Summary:

<u>Ref</u>	<u>Id</u>	<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

Code List Summary (Total Codes: 1503, Included: 2)

Code Name

BM Bill of Lading Number (Non-Imports)

MB Master Bill of Lading (in case of Imports)

REF02	127	Reference Identification	X	AN	1/30	Must use
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Syntax Rules:

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

Semantics:

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

Example:

*REF*BM*123123123123123*

REF Reference Identification

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

User Option (Usage): Used

Purpose: To specify identifying information

Element Summary:

<u>Ref</u>	<u>Id</u>	<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

Code List Summary (Total Codes: 1503, Included: 1)

Code Name

BN Booking Number

REF02	127	Reference Identification	X	AN	1/30	Must use
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Costco Element Note:

Ocean Booking Number.

Syntax Rules:

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

Semantics:

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

Example:

REF*BN*111222333

Costco Segment Note:

Mandatory segment for Import Shipments.

REF Reference Identification

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

User Option (Usage): Used

Purpose: To specify identifying information

Element Summary:

<u>Ref</u>	<u>Id</u>	<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

Code List Summary (Total Codes: 1503, Included: 1)

Code Name

CN Carrier's Reference Number (PRO/Invoice)

REF02	127	Reference Identification	X	AN	1/30	Must use
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Syntax Rules:

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

Semantics:

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

Example:

REF*CN*3546565431654313

Costco Segment Note:

Mandatory segment for LTL Shipments.

REF Reference Identification

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

User Option (Usage): Used

Purpose: To specify identifying information

Element Summary:

<u>Ref</u>	<u>Id</u>	<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

Code List Summary (Total Codes: 1503, Included: 1)

Code Name

AO Appointment Number

REF02	127	Reference Identification	X	AN	1/30	Must use
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Syntax Rules:

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

Semantics:

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

Example:

REF*AO*444555666

REF Reference Identification

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

User Option (Usage): Used

Purpose: To specify identifying information

Element Summary:

<u>Ref</u>	<u>Id</u>	<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

Code List Summary (Total Codes: 1503, Included: 1)

Code Name

2I Tracking Number

REF02	127	Reference Identification	X	AN	1/30	Must use
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Syntax Rules:

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

Semantics:

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

Example:

REF*2I*1Z54563135431

Costco Segment Note:

Mandatory segment for Parcel Shipments.

REF Reference Identification

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

User Option (Usage): Used

Purpose: To specify identifying information

Element Summary:

<u>Ref</u>	<u>Id</u>	<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

Code List Summary (Total Codes: 1503, Included: 1)

Code Name

IV Seller's Invoice Number

REF02	127	Reference Identification	X	AN	1/30	Must use
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Syntax Rules:

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

Semantics:

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

Example:

REF*IV*155882

Costco Segment Note:

Mandatory segment for shipments that contain meat and other items regulated by Country of Origin Labeling (COOL) requirements.

REF Reference Identification

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

User Option (Usage): Used

Purpose: To specify identifying information

Element Summary:

<u>Ref</u>	<u>Id</u>	<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

Costco Element Note:

TMS Load Number (Mandatory for shipments which are tendered to and handled by Costco Fleet).

Code List Summary (Total Codes: 1503, Included: 1)

Code Name

S5 Routing Instruction Number

REF02	127	Reference Identification	X	AN	1/30	Must use
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Costco Element Note:

TMS Load Number (created in Costco TMS system).

Syntax Rules:

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

Semantics:

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

Example:

REF*S5*1234

REF Reference Identification

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

User Option (Usage): Used

Purpose: To specify identifying information

Element Summary:

<u>Ref</u>	<u>Id</u>	<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

Code List Summary (Total Codes: 1503, Included: 1)

Code Name

SE Serial Number

REF02	127	Reference Identification	X	AN	1/30	Must use
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Costco Element Note:

Temperature Recorder Serial Number

Syntax Rules:

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

Semantics:

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

Example:

REF*SE*123456

Costco Segment Note:

Optional segment that may be included for refrigerated loads.

DTM Date/Time Reference

Pos: 200	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

Code List Summary (Total Codes: 1112, Included: 1)

Code Name

704 Delivery Appointment Date and Time

DTM02	373	Date	X	DT	8/8	Must use
DTM03	337	Time	X	TM	4/8	Must use

Syntax Rules:

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

Example:

DTM*704*20151204*142901

Costco Segment Note:

**Please Use UTC Time*

***Mandatory** segment for shipments that require an appointment number (REF01 = AO).

DTM Date/Time Reference

Pos: 200	Max: 10
Detail - Optional	
Loop: HL	Elements: 3

User Option (Usage): Must use

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

Code List Summary (Total Codes: 1112, Included: 1)

<u>Code</u>	<u>Name</u>
011	Shipped

DTM02	373	Date	X	DT	8/8	Must use
DTM03	337	Time	X	TM	4/8	Must use

Syntax Rules:

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

Example:

*DTM*011*20151201*14293700*

Costco Segment Note:

**Please Use UTC Time*

DTM Date/Time Reference

Pos: 200	Max: 10
Detail - Optional	
Loop: HL	Elements: 3

User Option (Usage): Must use

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

Code List Summary (Total Codes: 1112, Included: 1)

Code Name

017 Estimated Delivery

DTM02	373	Date	X	DT	8/8	Must use
DTM03	337	Time	X	TM	4/8	Must use

Syntax Rules:

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

Example:

*DTM*017*20151204*142937*

Costco Segment Note:

**Please Use UTC Time*

DTM Date/Time Reference

Pos: 200	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

Code List Summary (Total Codes: 1112, Included: 1)

Code Name

068 Current Schedule Ship

DTM02	373	Date	X	DT	8/8	Must use
DTM03	337	Time	X	TM	4/8	Must use

Syntax Rules:

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

Example:

*DTM*068*20151204*1429370*

Costco Segment Note:

**Please Use UTC Time*

DTM Date/Time Reference

Pos: 200	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

Code List Summary (Total Codes: 1112, Included: 1)

Code Name

067 Current Schedule Delivery

DTM02	373	Date	X	DT	8/8	Must use
DTM03	337	Time	X	TM	4/8	Must use

Syntax Rules:

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

Example:

*DTM*067*20151204*1429370*

Costco Segment Note:

**Please Use UTC Time*

DTM Date/Time Reference

Pos: 200	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

Code List Summary (Total Codes: 1112, Included: 1)

<u>Code</u>	<u>Name</u>
003	Invoice

DTM02	373	Date	X	DT	8/8	Must use
DTM03	337	Time	X	TM	4/8	Used

Syntax Rules:

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

Example:

*DTM*003*20151201*14293700*

Costco Segment Note:

**Please Use UTC Time*

***Mandatory** segment for shipments that contain meat and other items regulated by Country of Origin Labeling (COOL) requirements (REF01 = IV).

DTM Date/Time Reference

Pos: 200	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

Code List Summary (Total Codes: 1112, Included: 1)

Code Name

AA2 Estimated Point of Discharge

DTM02	373	Date	X	DT	8/8	Must use
DTM03	337	Time	X	TM	4/8	Must use

Syntax Rules:

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

Example:

DTM*AA2*20151202*1429370

Costco Segment Note:

**Please Use UTC Time*

**Mandatory segment for Import Shipments.*

DTM Date/Time Reference

Pos: 200	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

Code List Summary (Total Codes: 1112, Included: 2)

Code Name

369 Estimated Departure Date

371 Estimated Arrival Date

DTM02	373	Date	X	DT	8/8	Must use
DTM03	337	Time	X	TM	4/8	Must use

Syntax Rules:

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

Example:

*DTM*369*20151202*142937*

Costco Segment Note:

**Please Use UTC Time*

**Mandatory segment for Import Shipments.*

FOB F.O.B. Related Instructions

Pos: 210	Max: 1
Detail - Optional	
Loop: HL	Elements: 4

User Option (Usage): Must use

Purpose: To specify transportation instructions relating to shipment

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>
FOB01	146	Shipment Method of Payment	M	ID	2/2	Must use

Code List Summary (Total Codes: 28, Included: 2)

Code Name

- CC Collect
- PP Prepaid (by Seller)

FOB02	309	Location Qualifier	X	ID	1/2	Used
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Costco Element Note:
Mandatory for Import Shipments.

Code List Summary (Total Codes: 172, Included: 1)

Code Name

- DL Delivery Location

FOB04	334	Transportation Terms Qualifier Code	O	ID	2/2	Used
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Costco Element Note:
Mandatory for Import Shipments.

Code List Summary (Total Codes: 3, Included: 1)

Code Name

- 01 Incoterms

FOB05	335	Transportation Terms Code	X	ID	3/3	Used
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Costco Element Note:
Mandatory for Import Shipments.

Code List Summary (Total Codes: 25, Included: 7)

Code Name

- EXS Ex Ship
- EXW Ex Works
- FAS Free Alongside Ship
- FCA Free Carrier
- FCI Freight Carriage and Insurance Paid To
- FCP Freight Carriage Paid To
- FOB Free on Board

Costco Note:
Mandatory for Import Shipments

Syntax Rules:

1. C0302 - If FOB03 is present, then FOB02 is required.
2. C0405 - If FOB04 is present, then FOB05 is required.

3. C0706 - If FOB07 is present, then FOB06 is required.
4. C0809 - If FOB08 is present, then FOB09 is required.

Semantics:

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

Example:

*FOB*CC*DL**01*EXS*

N1 Name

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

User Option (Usage): Must use

Purpose: To identify a party by type of organization, name, and 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>
N101	98	Entity Identifier Code	M	ID	2/3	Must use

Code List Summary (Total Codes: 1312, Included: 1)

Code Name

SF Ship From

N102	93	Name	X	AN	1/60	Must use
N103	66	Identification Code Qualifier	X	ID	1/2	Used

Code List Summary (Total Codes: 215, Included: 2)

Code Name

9 D-U-N-S+4, D-U-N-S Number with Four Character Suffix

92 Assigned by Buyer or Buyer's Agent

N104	67	Identification Code	X	AN	2/80	Used
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Syntax Rules:

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

Comments:

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

Example:

*N1*Sf*VENDOR NAME*9*555555554444*

N3 Address Information

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

User Option (Usage): Must use

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
N302	166	Address Information	O	AN	1/55	Used

Example:

*N3*1234 EASY STREET*DOOR 6*

N4 Geographic Location

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

User Option (Usage): Must use

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	Must use
N402	156	State or Province Code	O	ID	2/2	Must use
N403	116	Postal Code	O	ID	3/15	Must use
N404	26	Country Code	O	ID	3/3	Must use

Syntax Rules:

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

Comments:

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

Example:

*N4*MILWAUKEE*WI*53201*USA*

N1 Name

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

User Option (Usage): Must use

Purpose: To identify a party by type of organization, name, and 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>
N101	98	Entity Identifier Code	M	ID	2/3	Must use

Code List Summary (Total Codes: 1312, Included: 2)

Code Name

CN Consignee
ST Ship To

N102	93	Name	X	AN	1/60	Must use
N103	66	Identification Code Qualifier	X	ID	1/2	Must use

Code List Summary (Total Codes: 215, Included: 2)

Code Name

9 D-U-N-S+4, D-U-N-S Number with Four Character Suffix
92 Assigned by Buyer or Buyer's Agent

N104	67	Identification Code	X	AN	2/80	Must use
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Costco Element Note:

Costco Facility ID (Depot ID #, CWI #, etc.) or Customs Importer of Record #.

Syntax Rules:

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

Comments:

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

Example:

*N1*ST*COSTCO*92*00960*

N3 Address Information

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

User Option (Usage): Must use

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
N302	166	Address Information	O	AN	1/55	Used

Example:

*N3*456 EASIER STREET*DOOR 2*

N4 Geographic Location

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

User Option (Usage): Must use

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	Must use
N402	156	State or Province Code	O	ID	2/2	Must use
N403	116	Postal Code	O	ID	3/15	Must use
N404	26	Country Code	O	ID	3/3	Must use

Syntax Rules:

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

Comments:

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

Example:

*N4*MIRA LOMA*CA*917520000*USA*

N1 Name

Pos: 220	Max: 1
Detail - Optional	
Loop: N1	Elements: 2

User Option (Usage): Used

Purpose: To identify a party by type of organization, name, and 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>
N101	98	Entity Identifier Code	M	ID	2/3	Must use

Code List Summary (Total Codes: 1312, Included: 1)

<u>Code</u>	<u>Name</u>
IM	Importer

N102	93	Name	X	AN	1/60	Must use
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Syntax Rules:

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

Comments:

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

Example:

*N1*IM*IMPORTER NAME*

Costco Segment Note:

Mandatory segment for Import Shipments.

N1 Name

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

User Option (Usage): Used

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

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
N101	98	Entity Identifier Code	M	ID	2/3	Must use
Code List Summary (Total Codes: 1312, Included: 1)						
<u>Code</u> <u>Name</u>						
MF Manufacturer of Goods						
N102	93	Name	X	AN	1/60	Must use
N103	66	Identification Code Qualifier	X	ID	1/2	Must use
Code List Summary (Total Codes: 215, Included: 2)						
<u>Code</u> <u>Name</u>						
91 Assigned by Seller or Seller's Agent						
UL UCC/EAN Location Code						
N104	67	Identification Code	X	AN	2/80	Must use

Syntax Rules:

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

Comments:

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

Example:

*N1*MF*MANUFACTURER NAME*91*987654*

Costco Segment Note:

Mandatory segment for Import Shipments

N3 Address Information

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

User Option (Usage): Used

Purpose: To specify the location of the named party

Element Summary:

<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
N302	166	Address Information	O	AN	1/55	Used

Example:

*N3*456 EASIER STREET*DOOR 2*

N4 Geographic Location

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

User Option (Usage): Used

Purpose: To specify the geographic place of the named party

Element Summary:

<u>Ref</u>	<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	Must use
N402	156	State or Province Code	O	ID	2/2	Must use
N403	116	Postal Code	O	ID	3/15	Must use
N404	26	Country Code	O	ID	3/3	Must use

Syntax Rules:

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

Comments:

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

Example:

*N4*MIRA LOMA*CA*917520000*USA*

SAC Service, Promotion, Allowance, or Charge Information

Pos: 320	Max: 1
Detail - Optional	
Loop: SAC	Elements: 3

User Option (Usage): Used

Purpose: To request or identify a service, promotion, allowance, or charge; to specify the amount or percentage for the service, promotion, allowance, or charge

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>
SAC01	248	Allowance or Charge Indicator	M	ID	1/1	Must use
Code List Summary (Total Codes: 7, Included: 1)						
Code Name						
C Charge						
SAC02	1300	Service, Promotion, Allowance, or Charge Code	X	ID	4/4	Must use
Code List Summary (Total Codes: 1053, Included: 2)						
Code Name						
D240 Freight						
H850 Tax						
SAC05	610	Amount	O	N2	1/15	Must use

Syntax Rules:

1. R0203 - At least one of SAC02 or SAC03 is required.
2. P0304 - If either SAC03 or SAC04 is present, then the other is required.
3. P0607 - If either SAC06 or SAC07 is present, then the other is required.
4. P0910 - If either SAC09 or SAC10 is present, then the other is required.
5. C1110 - If SAC11 is present, then SAC10 is required.
6. L130204 - If SAC13 is present, then at least one of SAC02 or SAC04 is required.
7. C1413 - If SAC14 is present, then SAC13 is required.
8. C1615 - If SAC16 is present, then SAC15 is required.

Semantics:

1. If SAC01 is "A" or "C", then at least one of SAC05, SAC07, or SAC08 is required.
2. SAC05 is the total amount for the service, promotion, allowance, or charge.
3. If SAC05 is present with SAC07 or SAC08, then SAC05 takes precedence.
4. SAC08 is the allowance or charge rate per unit.
5. SAC10 and SAC11 is the quantity basis when the allowance or charge quantity is different from the purchase order or invoice quantity.
6. SAC10 and SAC11 used together indicate a quantity range, which could be a dollar amount, that is applicable to service, promotion, allowance, or charge.
7. SAC13 is used in conjunction with SAC02 or SAC04 to provide a specific reference number as identified by the code used.
8. SAC14 is used in conjunction with SAC13 to identify an option when there is more than one option of the promotion.

9. SAC16 is used to identify the language being used in SAC15.

Comments:

1. SAC04 may be used to uniquely identify the service, promotion, allowance, or charge. In addition, it may be used in conjunction to further the code in SAC02.
2. In some business applications, it is necessary to advise the trading partner of the actual dollar amount that a particular allowance, charge, or promotion was based on to reduce ambiguity. This amount is commonly referred to as "Dollar Basis Amount". It is represented in the SAC segment in SAC10 using the qualifier "DO" - Dollars in SAC09.

Example:

SAC*C*D240***300

V1 Vessel Identification

Pos: 360	Max: 1
Detail - Optional	
Loop: V1	Elements: 4

User Option (Usage): Used

Purpose: To provide vessel details and voyage 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>
V101	597	Vessel Code	X	ID	1/8	Must use
V102	182	Vessel Name	X	AN	2/28	Must use
V103	26	Country Code	O	ID	2/3	Must use

Costco Element Note:

Country of registration of the vessel.

V104	55	Flight/Voyage Number	O	AN	2/10	Must use
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Costco Element Note:

Voyage Number (Ocean), Flight Number (Air), Truck Number (Cross Border).

Syntax Rules:

1. R0102 - At least one of V101 or V102 is required.
2. C0801 - If V108 is present, then V101 is required.

Semantics:

1. V103 is the code identifying the country in which the ship (vessel) is registered.
2. V105 identifies the ocean carrier.

Example:

V1*88888888*VESSEL NAME*USA*222222222

Costco Segment Note:

Mandatory segment for Import Shipments.

R4 Port or Terminal

Pos: 370	Max: >1
Detail - Optional	
Loop: V1	Elements: 3

User Option (Usage): Used

Purpose: Contractual or operational port or point relevant to the movement of the cargo

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>
R401	115	Port or Terminal Function Code	M	ID	1/1	Must use
Code List Summary (Total Codes: 30, Included: 1)						
<u>Code</u> <u>Name</u>						
O Origin (Operational)						
R402	309	Location Qualifier	X	ID	1/2	Must use
Code List Summary (Total Codes: 172, Included: 2)						
<u>Code</u> <u>Name</u>						
IA International Air Transport Association (IATA) Location Qualifier						
UN United Nations Location Code (UNLOCODE)						
R403	310	Location Identifier	X	AN	1/30	Must use

Syntax Rules:

1. P0203 - If either R402 or R403 is present, then the other is required.

Comments:

1. R4 is required for each port to be identified.

Example:

R4*O*UN*CCPPP

Costco Segment Note:

Mandatory segment for Import Shipments.

R4 Port or Terminal

Pos: 370	Max: >1
Detail - Optional	
Loop: V1	Elements: 3

User Option (Usage): Used

Purpose: Contractual or operational port or point relevant to the movement of the cargo

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>
R401	115	Port or Terminal Function Code	M	ID	1/1	Must use
Code List Summary (Total Codes: 30, Included: 1)						
Code Name						
G Port of Entry (Operational)						
R402	309	Location Qualifier	X	ID	1/2	Must use
Code List Summary (Total Codes: 172, Included: 2)						
Code Name						
IA International Air Transport Association (IATA) Location Qualifier						
UN United Nations Location Code (UNLOCODE)						
R403	310	Location Identifier	X	AN	1/30	Must use

Syntax Rules:

1. P0203 - If either R402 or R403 is present, then the other is required.

Comments:

1. R4 is required for each port to be identified.

Example:

R4*G*UN*CCPPP

Costco Segment Note:

Mandatory segment for Import Shipments.

R4 Port or Terminal

Pos: 370	Max: >1
Detail - Optional	
Loop: V1	Elements: 3

User Option (Usage): Used

Purpose: Contractual or operational port or point relevant to the movement of the cargo

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>
R401	115	Port or Terminal Function Code	M	ID	1/1	Must use
Code List Summary (Total Codes: 30, Included: 1)						
<u>Code</u> <u>Name</u>						
D Port of Discharge (Operational)						
R402	309	Location Qualifier	X	ID	1/2	Must use
Code List Summary (Total Codes: 172, Included: 2)						
<u>Code</u> <u>Name</u>						
IA International Air Transport Association (IATA) Location Qualifier						
UN United Nations Location Code (UNLOCODE)						
R403	310	Location Identifier	X	AN	1/30	Must use

Syntax Rules:

1. P0203 - If either R402 or R403 is present, then the other is required.

Comments:

1. R4 is required for each port to be identified.

Example:

R4*D*UN*CCPPP

Costco Segment Note:

Mandatory segment for Import Shipments.

R4 Port or Terminal

Pos: 370	Max: >1
Detail - Optional	
Loop: V1	Elements: 3

User Option (Usage): Used

Purpose: Contractual or operational port or point relevant to the movement of the cargo

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>
R401	115	Port or Terminal Function Code	M	ID	1/1	Must use
Code List Summary (Total Codes: 30, Included: 1)						
<u>Code</u> <u>Name</u>						
L Port of Loading (Operational)						
R402	309	Location Qualifier	X	ID	1/2	Must use
Code List Summary (Total Codes: 172, Included: 2)						
<u>Code</u> <u>Name</u>						
IA International Air Transport Association (IATA) Location Qualifier						
UN United Nations Location Code (UNLOCODE)						
R403	310	Location Identifier	X	AN	1/30	Must use

Syntax Rules:

1. P0203 - If either R402 or R403 is present, then the other is required.

Comments:

1. R4 is required for each port to be identified.

Example:

R4*L*UN*CCPPP

Costco Segment Note:

Mandatory segment for Import Shipments.

HL Hierarchical Level

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

User Option (Usage): Must use

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

Element Summary:

<u>Ref</u>	<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
HL02	734	Hierarchical Parent ID Number	O	AN	1/12	Must use
HL03	735	Hierarchical Level Code	M	ID	1/2	Must use

Code List Summary (Total Codes: 170, Included: 1)

<u>Code</u>	<u>Name</u>
O	Order

Comments:

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

Example:

*HL*2*1*0*

PRF Purchase Order Reference

Pos: 050	Max: 1
Detail - Optional	
Loop: HL	Elements: 2

User Option (Usage): Must use

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
PRF04	373	Date	O	DT	8/8	Must use

Semantics:

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

Example:

*PRF*333555999***20151130*

REF Reference Identification

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

User Option (Usage): Must use

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

Code List Summary (Total Codes: 1503, Included: 1)

Code Name

VR Vendor ID Number

REF02	127	Reference Identification	X	AN	1/30	Must use
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Syntax Rules:

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

Semantics:

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

Example:

*REF*VR*0010013321*

REF Reference Identification

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

User Option (Usage): Used

Purpose: To specify identifying information

Element Summary:

<u>Ref</u>	<u>Id</u>	<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

Code List Summary (Total Codes: 1503, Included: 1)

Code Name

PD Promotion/Deal Number

REF02	127	Reference Identification	X	AN	1/30	Must use
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Syntax Rules:

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

Semantics:

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

Example:

*REF*PD*77777777*

N1 Name

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

User Option (Usage): Used

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

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
N101	98	Entity Identifier Code	M	ID	2/3	Must use
Code List Summary (Total Codes: 1312, Included: 1)						
<u>Code</u> <u>Name</u>						
MP Manufacturing Plant						
N102	93	Name	X	AN	1/60	Must use
N103	66	Identification Code Qualifier	X	ID	1/2	Must use
Code List Summary (Total Codes: 215, Included: 1)						
<u>Code</u> <u>Name</u>						
9 D-U-N-S+4, D-U-N-S Number with Four Character Suffix						
N104	67	Identification Code	X	AN	2/80	Must use

Syntax Rules:

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

Comments:

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

Example:

N1*MP*MANUFACTURING PLANT NAME*9*6666666664444

Costco Segment Note:

Mandatory segment for shipments that contain meat or other items regulated by Country of Origin Labeling (COOL) requirements.

N3 Address Information

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

User Option (Usage): Used

Purpose: To specify the location of the named party

Element Summary:

<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
N302	166	Address Information	O	AN	1/55	Used

Example:

N3*987 EASIEST STREET*BLDG 2

Costco Segment Note:

Mandatory segment for shipments that contain meat or other items regulated by Country of Origin Labeling (COOL) requirements.

N4 Geographic Location

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

User Option (Usage): Used

Purpose: To specify the geographic place of the named party

Element Summary:

<u>Ref</u>	<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	Must use
N402	156	State or Province Code	O	ID	2/2	Must use
N403	116	Postal Code	O	ID	3/15	Must use
N404	26	Country Code	O	ID	3/3	Must use

Syntax Rules:

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

Comments:

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

Example:

N4*WAUKESHA*WI*531860002*USA

Costco Segment Note:

Mandatory segment for shipments that contain meat or other items regulated by Country of Origin Labeling (COOL) requirements.

N1 Name

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

User Option (Usage): Used

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

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
N101	98	Entity Identifier Code	M	ID	2/3	Must use
Code List Summary (Total Codes: 1312, Included: 1)						
<u>Code</u> <u>Name</u>						
EL Established Location						
N102	93	Name	X	AN	1/60	Must use
N103	66	Identification Code Qualifier	X	ID	1/2	Must use
Code List Summary (Total Codes: 215, Included: 1)						
<u>Code</u> <u>Name</u>						
9 D-U-N-S+4, D-U-N-S Number with Four Character Suffix						
N104	67	Identification Code	X	AN	2/80	Must use

Syntax Rules:

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

Comments:

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

Example:

*N1*EL*ESTABLISHED LOCATION NAME*9*777777774444*

Costco Segment Note:

Mandatory segment for shipments that contain meat or other items regulated by Country of Origin Labeling (COOL) requirements.

N1 Name

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

User Option (Usage): Used

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

Element Summary:

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

Code List Summary (Total Codes: 1312, Included: 1)

Code Name

ZZ Mutually Defined (Growing Area GPS - FDA requirement)

N102	93	Name	X	AN	1/60	Must use
N103	66	Identification Code Qualifier	X	ID	1/2	Must use

Code List Summary (Total Codes: 215, Included: 4)

Code Name

9 D-U-N-S+4, D-U-N-S Number with Four Character Suffix

91 Assigned by Seller or Seller's Agent

UL UCC/EAN Location Code

UR Uniform Resource Locator (URL)

N104	67	Identification Code	X	AN	2/80	Must use
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Syntax Rules:

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

Comments:

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

Example:

*N1*ZZ*FARMER JOE FIELD A*91*987654*

N3 Address Information

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

User Option (Usage): Used

Purpose: To specify the location of the named party

Element Summary:

<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
N302	166	Address Information	O	AN	1/55	Used

Example:

*N3*234 EASY STREET*LEFT SIDE*

N4 Geographic Location

Pos: 250	Max: 1
Detail - Optional	
Loop: N1	Elements: 6

User Option (Usage): Used

Purpose: To specify the geographic place of the named party

Element Summary:

<u>Ref</u>	<u>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	Must use
N402	156	State or Province Code	O	ID	2/2	Must use
N403	116	Postal Code	O	ID	3/15	Must use
N404	26	Country Code	O	ID	3/3	Must use
N405	309	Location Qualifier	X	ID	1/2	Must use

Code List Summary (Total Codes: 172, Included: 1)

Code Name

28 Latitude-Longitude Source

N406	310	Location Identifier	O	AN	1/30	Must use
------	-----	---------------------	---	----	------	----------

Syntax Rules:

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

Comments:

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

Example:

*N4*Smithfield*VA*23430*USA*28*36.9824N76.6311W*

PER Administrative Communications Contact

Pos: 270	Max: 3
Detail - Optional	
Loop: N1	Elements: 4

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
Code List Summary (Total Codes: 230, Included: 1)						
<u>Code</u> <u>Name</u>						
IC Information Contact						
PER02	93	Name	O	AN	1/60	Must use
PER03	365	Communication Number Qualifier	X	ID	2/2	Must use
Code List Summary (Total Codes: 40, Included: 2)						
<u>Code</u> <u>Name</u>						
EM Electronic Mail						
TE Telephone						
PER04	364	Communication Number	X	AN	1/80	Must use

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.

Example:

PER*IC*FRED FARMER*TE*5065561234

HL Hierarchical Level

Pos: 010	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

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
HL02	734	Hierarchical Parent ID Number	O	AN	1/12	Must use
HL03	735	Hierarchical Level Code	M	ID	1/2	Must use

Code List Summary (Total Codes: 170, Included: 1)

<u>Code</u>	<u>Name</u>
T	Shipping Tare

Comments:

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

Example:

*HL*3*1*T*

MAN Marks and Numbers

Pos: 190	Max: >1
Detail - Optional	
Loop: HL	Elements: 4

User Option (Usage): Must use

Purpose: To indicate identifying marks and numbers for shipping containers

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

Code List Summary (Total Codes: 20, Included: 3)

Code Name

AA SSCC-18
 AI UCC/EAN-128 Application Identifier (AI) and Data
 GM SSCC-18 and Application Identifier

MAN02	87	Marks and Numbers	M	AN	1/48	Must use
MAN04	88	Marks and Numbers Qualifier	X	ID	1/2	Used

Code List Summary (Total Codes: 20, Included: 2)

Code Name

W Pallet Number
 SI Self-Identifying Container via Radio Frequency ID Device

MAN05	87	Marks and Numbers	X	AN	1/48	Used
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Syntax Rules:

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

Semantics:

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

Comments:

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

Example:

MAN*AI*112233445566778899**W*1

Costco Segment Note:

Mandatory segment when sending Tare Level data.

DTM Date/Time Reference

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

User Option (Usage): Used

Purpose: To specify pertinent dates and times

Element Summary:

<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

Code List Summary (Total Codes: 1112, Included: 1)

Code Name

036 Expiration

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

Syntax Rules:

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

Example:

DTM*036*20161201

Costco Segment Note:

**Please Use UTC Time*

**Mandatory segment for qualifying product categories such as meat, frozen food, fresh food, and produce.*

DTM Date/Time Reference

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

User Option (Usage): Used

Purpose: To specify pertinent dates and times

Element Summary:

<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

Code List Summary (Total Codes: 1112, Included: 1)

Code Name

405 Production

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

Syntax Rules:

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

Example:

DTM*405*20151204

Costco Segment Note:

**Please Use UTC Time*

**Mandatory segment for qualifying product categories such as meat, frozen food, fresh food, and produce.*

DTM Date/Time Reference

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

User Option (Usage): Used

Purpose: To specify pertinent dates and times

Element Summary:

<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

Code List Summary (Total Codes: 1112, Included: 1)

<u>Code</u>	<u>Name</u>
510	Date Packed

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

Syntax Rules:

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

Example:

DTM*510*20151204

Costco Segment Note:

**Please Use UTC Time*

**Mandatory segment for qualifying product categories such as meat, frozen food, fresh food, and produce.*

DTM Date/Time Reference

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

User Option (Usage): Used

Purpose: To specify pertinent dates and times

Element Summary:

<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

Code List Summary (Total Codes: 1112, Included: 1)

<u>Code</u>	<u>Name</u>
511	Shelf Life Expiration

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

Syntax Rules:

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

Example:

DTM*511*20161201

Costco Segment Note:

**Please Use UTC Time*

***Mandatory** segment for qualifying product categories such as meat, frozen food, fresh food, and produce.

PAL Pallet Information

Pos: 215	Max: 1
Detail - Optional	
Loop: HL	Elements: 10

User Option (Usage): Must use

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:

Ref	Id	Element Name	Req	Type	Min/Max	Usage						
PAL01	883	Pallet Type Code	O	ID	1/2	Must use						
All valid standard codes are used. (Total Codes: 7)												
PAL02	884	Pallet Tiers	O	N0	1/3	Must use						
PAL03	885	Pallet Blocks	O	N0	1/3	Must use						
PAL04	356	Pack	O	N0	1/6	Must use						
Costco Element Note: Number of sell units by pallet.												
PAL05	395	Unit Weight	X	R	1/8	Must use						
PAL06	355	Unit or Basis for Measurement Code	X	ID	2/2	Must use						
Code List Summary (Total Codes: 794, Included: 2)												
<table border="1"> <thead> <tr> <th>Code</th> <th>Name</th> </tr> </thead> <tbody> <tr> <td>KG</td> <td>Kilogram</td> </tr> <tr> <td>LB</td> <td>Pound</td> </tr> </tbody> </table>							Code	Name	KG	Kilogram	LB	Pound
Code	Name											
KG	Kilogram											
LB	Pound											
PAL07	82	Length	X	R	1/8	Must use						
PAL08	189	Width	X	R	1/8	Must use						
PAL09	65	Height	X	R	1/8	Must use						
PAL10	355	Unit or Basis for Measurement Code	X	ID	2/2	Must use						
Code List Summary (Total Codes: 794, Included: 1)												
<table border="1"> <thead> <tr> <th>Code</th> <th>Name</th> </tr> </thead> <tbody> <tr> <td>IN</td> <td>Inch</td> </tr> </tbody> </table>							Code	Name	IN	Inch		
Code	Name											
IN	Inch											

Syntax Rules:

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

Example:

*PAL *1*2*24*12*315*LB*515*874*60*IN*

Costco Segment Note:

Mandatory segment when sending Tare Level data.

N1 Name

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

User Option (Usage): Used

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

Element Summary:

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

Code List Summary (Total Codes: 1312, Included: 1)

Code Name

MA Party for whom Item is Ultimately Intended

N102	93	Name	X	AN	1/60	Must use
N103	66	Identification Code Qualifier	X	ID	1/2	Must use

Code List Summary (Total Codes: 215, Included: 1)

Code Name

92 Assigned by Buyer or Buyer's Agent

N104	67	Identification Code	X	AN	2/80	Must use
------	----	----------------------------	---	----	------	----------

Costco Element Note:

"Mark For" ID, i.e., the final node of consumption (warehouse number).

Syntax Rules:

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

Comments:

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

Example:

N1*MA*ULTIMATE PARTY*92*00960

Costco Segment Note:

Mandatory segment for pre-sorted pallets.

HL Hierarchical Level

Pos: 010	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

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
HL02	734	Hierarchical Parent ID Number	O	AN	1/12	Must use
HL03	735	Hierarchical Level Code	M	ID	1/2	Must use

Code List Summary (Total Codes: 170, Included: 1)

<u>Code</u>	<u>Name</u>
P	Pack

Comments:

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

Example:

*HL*4*3*P*

LIN Item Identification

Pos: 020	Max: 1
Detail - Optional	
Loop: HL	Elements: 11

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>
LIN01	350	Assigned Identification	O	AN	1/20	Used
		Costco Element Note: COSTCO PURCHASE ORDER LINE NUMBER -PO1 Line item#				
LIN02	235	Product/Service ID Qualifier	M	ID	2/2	Must use
		Code List Summary (Total Codes: 477, Included: 1) Code Name IN Buyer's Item Number				
LIN03	234	Product/Service ID	M	AN	1/48	Must use
LIN04	235	Product/Service ID Qualifier	X	ID	2/2	Used
		Costco Element Note: Mandatory for items like tobacco, candy, food, liquor, bakery and produce.				
		Code List Summary (Total Codes: 477, Included: 1) Code Name VN Vendor's (Seller's) Item Number				
LIN05	234	Product/Service ID	X	AN	1/48	Used
		Costco Element Note: Mandatory for items like tobacco, candy, food, liquor, bakery and produce.				
LIN06	235	Product/Service ID Qualifier	X	ID	2/2	Used
		Code List Summary (Total Codes: 477, Included: 1) Code Name CH Country of Origin Code				
LIN07	234	Product/Service ID	X	AN	1/48	Used
		Costco Element Note: Mandatory for Imports, Jewelry, Optical and Furniture.				
LIN08	235	Product/Service ID Qualifier	X	ID	2/2	Used
		Code List Summary (Total Codes: 477, Included: 2) Code Name UK U.P.C./EAN Shipping Container Code (1-2-5-5-1) UP U.P.C. Consumer Package Code (1-5-5-1)				

LIN09	234	Product/Service ID	X	AN	1/48	Used
LIN10	235	Product/Service ID Qualifier	X	ID	2/2	Used
Code List Summary (Total Codes: 477, Included: 1)						
Code Name						
LT Lot Number						
LIN11	234	Product/Service ID	X	AN	1/48	Used

Syntax Rules:

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

Semantics:

1. LIN01 is the line item identification

Comments:

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

Example:

*LIN**IN*12351*

SN1 Item Detail (Shipment)

Pos: 030	Max: 1
Detail - Optional	
Loop: HL	Elements: 3

User Option (Usage): Used

Purpose: To specify line-item detail relative to shipment

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>
SN101	350	Assigned Identification	O	AN	1/20	Used
SN102	382	Number of Units Shipped	M	R	1/10	Must use
SN103	355	Unit or Basis for Measurement Code	M	ID	2/2	Must use

Code List Summary (Total Codes: 794, Included: 3)

<u>Code</u>	<u>Name</u>
CA	Case
EA	Each
PL	Pallet/Unit Load

Syntax Rules:

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

Semantics:

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

Comments:

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

Example:

SN1*0001*11253*CA

PO4 Item Physical Details

Pos: 060	Max: 1
Detail - Optional	
Loop: HL	Elements: 7

User Option (Usage): Used

Purpose: To specify the physical qualities, packaging, weights, and dimensions relating to the 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>
PO401	356	Pack	O	N0	1/6	Must use
Costco Element Note: Number of inner packs per case.						
PO405	187	Weight Qualifier	O	ID	1/2	Used
Code List Summary (Total Codes: 51, Included: 2) <u>Code</u> <u>Name</u> G Gross Weight N Actual Net Weight						
PO406	384	Gross Weight per Pack	X	R	1/9	Used
PO407	355	Unit or Basis for Measurement Code	X	ID	2/2	Used
Code List Summary (Total Codes: 794, Included: 2) <u>Code</u> <u>Name</u> KG Kilogram LB Pound						
PO408	385	Gross Volume per Pack	X	R	1/9	Used
Costco Element Note: Mandatory for ASNs sent in SOPI structure.						
PO409	355	Unit or Basis for Measurement Code	X	ID	2/2	Used
Code List Summary (Total Codes: 794, Included: 1) <u>Code</u> <u>Name</u> CF Cubic Feet						
PO414	810	Inner Pack	O	N0	1/6	Must use
Costco Element Note: Number of sellable units per inner pack.						

Syntax Rules:

1. P0203 - If either PO402 or PO403 is present, then the other is required.
2. C0506 - If PO405 is present, then PO406 is required.
3. P0607 - If either PO406 or PO407 is present, then the other is required.
4. P0809 - If either PO408 or PO409 is present, then the other is required.
5. C1013 - If PO410 is present, then PO413 is required.
6. C1113 - If PO411 is present, then PO413 is required.
7. C1213 - If PO412 is present, then PO413 is required.

8. L13101112 - If PO413 is present, then at least one of PO410, PO411 or PO412 is required.
9. C1716 - If PO417 is present, then PO416 is required.
10. C1804 - If PO418 is present, then PO404 is required.

Semantics:

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

Comments:

1. PO403 - The "Unit or Basis for Measure Code" in this segment position is for purposes of defining the pack (PO401) /size (PO402) measure which indicates the quantity in the inner pack unit. For example: If the carton contains 24 12-Ounce packages, it would be described as follows: Data element 356 = "24"; Data element 357 = "12"; Data element 355 = "OZ".
2. PO413 defines the unit of measure for PO410, PO411, and PO412.

Example:

*PO4*24****G*5.25*LB*****6*

MAN Marks and Numbers

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

User Option (Usage): Must use

Purpose: To indicate identifying marks and numbers for shipping containers

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

Code List Summary (Total Codes: 20, Included: 2)

Code Name

AA SSCC-18

AI UCC/EAN-128 Application Identifier (AI) and Data

MAN02	87	Marks and Numbers	M	AN	1/48	Must use
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Costco Element Note:

Container shipping identifier.

Syntax Rules:

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

Semantics:

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

Comments:

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

Example:

MAN*AI*456456456456

Costco Segment Note:

Mandatory segment when sending Pack Level data.

DTM Date/Time Reference

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

User Option (Usage): Used

Purpose: To specify pertinent dates and times

Element Summary:

<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

Code List Summary (Total Codes: 1112, Included: 1)

Code Name

036 Expiration

DTM02	373	Date	X	DT	8/8	Must use
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Syntax Rules:

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

Example:

DTM*036*20161203

Costco Segment Note:

**Please Use UTC Time*

**Mandatory segment for qualifying product categories such as meat, frozen food, fresh food, and produce.*

DTM Date/Time Reference

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

User Option (Usage): Used

Purpose: To specify pertinent dates and times

Element Summary:

<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

Code List Summary (Total Codes: 1112, Included: 1)

Code Name

405 Production

DTM02	373	Date	X	DT	8/8	Must use
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Syntax Rules:

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

Example:

*DTM*405*20151204*

Costco Segment Note:

**Please Use UTC Time*

**Mandatory segment for qualifying product categories such as meat, frozen food, fresh food, and produce.*

DTM Date/Time Reference

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

User Option (Usage): Used

Purpose: To specify pertinent dates and times

Element Summary:

<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

Code List Summary (Total Codes: 1112, Included: 1)

<u>Code</u>	<u>Name</u>
510	Date Packed

DTM02	373	Date	X	DT	8/8	Must use
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Syntax Rules:

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

Example:

DTM*510*20151205

Costco Segment Note:

**Please Use UTC Time*

***Mandatory** segment for qualifying product categories such as meat, frozen food, fresh food, and produce.

DTM Date/Time Reference

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

User Option (Usage): Used

Purpose: To specify pertinent dates and times

Element Summary:

<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

Code List Summary (Total Codes: 1112, Included: 1)

<u>Code</u>	<u>Name</u>
511	Shelf Life Expiration

DTM02	373	Date	X	DT	8/8	Must use
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Syntax Rules:

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

Example:

DTM*511*20161202

Costco Segment Note:

**Please Use UTC Time*

**Mandatory segment for qualifying product categories such as meat, frozen food, fresh food, and produce.*

HL Hierarchical Level

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

User Option (Usage): Used

Purpose: To identify dependencies among and the content of hierarchically related groups of data 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>
HL01	628	Hierarchical ID Number	M	AN	1/12	Must use
HL02	734	Hierarchical Parent ID Number	O	AN	1/12	Must use
HL03	735	Hierarchical Level Code	M	ID	1/2	Must use

Code List Summary (Total Codes: 170, Included: 1)

<u>Code</u>	<u>Name</u>
I	Item

Comments:

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

Example:

*HL*5*4*1*

LIN Item Identification

Pos: 020	Max: 1
Detail - Optional	
Loop: HL	Elements: 19

User Option (Usage): Must use

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>
LIN01	350	Assigned Identification	O	AN	1/20	Used
		Costco Element Note: <i>Costco purchase order line number.</i>				
LIN02	235	Product/Service ID Qualifier	M	ID	2/2	Must use
		Code List Summary (Total Codes: 477, Included: 1) Code Name IN Buyer's Item Number				
LIN03	234	Product/Service ID	M	AN	1/48	Must use
		Costco Element Note: <i>Costco item number.</i>				
LIN04	235	Product/Service ID Qualifier	X	ID	2/2	Must use
		Code List Summary (Total Codes: 477, Included: 1) Code Name VN Vendor's (Seller's) Item Number				
LIN05	234	Product/Service ID	X	AN	1/48	Must use
LIN06	235	Product/Service ID Qualifier	X	ID	2/2	Used
		Costco Element Note: <i>Mandatory for Imports, Jewelry, Optical and Furniture.</i>				
		Code List Summary (Total Codes: 477, Included: 1) Code Name CH Country of Origin Code				
LIN07	234	Product/Service ID	X	AN	1/48	Used
		Costco Element Note: <i>Mandatory for Imports, Jewelry, Optical and Furniture.</i>				
LIN08	235	Product/Service ID Qualifier	X	ID	2/2	Must use
		Code List Summary (Total Codes: 477, Included: 2) Code Name UK U.P.C./EAN Shipping Container Code (1-2-5-5-1) UP U.P.C. Consumer Package Code (1-5-5-1)				
LIN09	234	Product/Service ID	X	AN	1/48	Must use

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
LIN10	235	Product/Service ID Qualifier	X	ID	2/2	Used
<p>Costco Element Note: Should be included for items like tobacco, candy, food, liquor, bakery and produce.</p> <p>Code List Summary (Total Codes: 477, Included: 1) Code Name LT Lot Number</p>						
LIN11	234	Product/Service ID	X	AN	1/48	Used
<p>Costco Element Note: Should be included for items like tobacco, candy, food, liquor, bakery and produce.</p>						
LIN12	235	Product/Service ID Qualifier	X	ID	2/2	Used
<p>Costco Element Note: Mandatory for items that are regulated by Country of Origin Labeling (COOL) requirements.</p> <p>Code List Summary (Total Codes: 477, Included: 1) Code Name GE Generic Name Description</p>						
LIN13	234	Product/Service ID	X	AN	1/48	Used
<p>Costco Element Note: Mandatory for items that are regulated by Country of Origin Labeling (COOL) requirements.</p>						
LIN14	235	Product/Service ID Qualifier	X	ID	2/2	Used
<p>Code List Summary (Total Codes: 477, Included: 1) Code Name CL Color</p>						
LIN15	234	Product/Service ID	X	AN	1/48	Used
LIN16	235	Product/Service ID Qualifier	X	ID	2/2	Used
<p>Code List Summary (Total Codes: 477, Included: 1) Code Name SZ Vendor Alphanumeric Size Code (NRMA)</p>						
LIN17	234	Product/Service ID	X	AN	1/48	Used
LIN18	235	Product/Service ID Qualifier	X	ID	2/2	Used
<p>Costco Element Note: Mandatory for HazMat Shipments.</p> <p>Code List Summary (Total Codes: 477, Included: 1) Code Name UQ United Nations (UN) Number (Dangerous Goods)</p>						

LIN19	234	Product/Service ID	X	AN	1/48	Used
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Costco Element Note:
Mandatory for HazMat Shipments.

Syntax Rules:

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

Semantics:

1. LIN01 is the line item identification

Comments:

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

Example:

LIN*0001*IN*123456*VN*BG112233*CH*CN*UK*12233333444445*LT*314*GE*BANGLE*CL*GOLD*SZ*L1*UQ*1606

SN1 Item Detail (Shipment)

Pos: 030	Max: 1
Detail - Optional	
Loop: HL	Elements: 4

User Option (Usage): Used

Purpose: To specify line-item detail relative to shipment

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>																
SN101	350	Assigned Identification	O	AN	1/20	Used																
		Costco Element Note: Mandatory for ASNs sent in SOTI structure.																				
SN102	382	Number of Units Shipped	M	R	1/10	Must use																
		Costco Element Note: SOTPI and SOTI structure: Number of units per pallet of the item shipped. SOPI structure: Number of units per case of the item shipped.																				
SN103	355	Unit or Basis for Measurement Code	M	ID	2/2	Must use																
		Costco Element Note: Must match the UOM on the Purchase Order. All valid standard codes are used. (Total Codes: 794)																				
SN108	668	Line Item Status Code	O	ID	2/2	Used																
		Costco Element Note: Mandatory for drop shipments and small packages. Code List Summary (Total Codes: 26, Included: 7) <table border="1"> <thead> <tr> <th><u>Code</u></th> <th><u>Name</u></th> </tr> </thead> <tbody> <tr> <td>AC</td> <td>Item Accepted and Shipped</td> </tr> <tr> <td>ID</td> <td>Item Deleted</td> </tr> <tr> <td>IF</td> <td>Item on Hold, Incomplete Description</td> </tr> <tr> <td>IR</td> <td>Item Rejected</td> </tr> <tr> <td>R1</td> <td>Item Rejected, Not a Contract Item</td> </tr> <tr> <td>R2</td> <td>Item Rejected, Invalid Item Product Number</td> </tr> <tr> <td>R4</td> <td>Item Rejected, Contract Item not Available</td> </tr> </tbody> </table>					<u>Code</u>	<u>Name</u>	AC	Item Accepted and Shipped	ID	Item Deleted	IF	Item on Hold, Incomplete Description	IR	Item Rejected	R1	Item Rejected, Not a Contract Item	R2	Item Rejected, Invalid Item Product Number	R4	Item Rejected, Contract Item not Available
<u>Code</u>	<u>Name</u>																					
AC	Item Accepted and Shipped																					
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R1	Item Rejected, Not a Contract Item																					
R2	Item Rejected, Invalid Item Product Number																					
R4	Item Rejected, Contract Item not Available																					

Syntax Rules:

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

Semantics:

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

Comments:

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

Example:

*SN1*0001*30472*EA*****AC*

PO4 Item Physical Details

Pos: 060	Max: 1
Detail - Optional	
Loop: HL	Elements: 7

User Option (Usage): Used

Purpose: To specify the physical qualities, packaging, weights, and dimensions relating to the 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>
PO401	356	Pack	O	N0	1/6	Must use

Costco Element Note:
The number of inner containers/eaches per outer container. This can be defaulted to '1' if there are no inner containers per outer container.

PO405	187	Weight Qualifier	O	ID	1/2	Must use
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Costco Element Note:
Mandatory for items that are measured in catch weight such as meat, fresh foods, frozen food, produce, and bakery items.

Code List Summary (Total Codes: 51, Included: 2)

<u>Code</u>	<u>Name</u>
G	Gross Weight
N	Actual Net Weight

PO406	384	Gross Weight per Pack	X	R	1/9	Must use
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PO407	355	Unit or Basis for Measurement Code	X	ID	2/2	Must use
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Code List Summary (Total Codes: 794, Included: 2)

<u>Code</u>	<u>Name</u>
KG	Kilogram
LB	Pound

PO408	385	Gross Volume per Pack	X	R	1/9	Must use
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PO409	355	Unit or Basis for Measurement Code	X	ID	2/2	Must use
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Code List Summary (Total Codes: 794, Included: 1)

<u>Code</u>	<u>Name</u>
CF	Cubic Feet

PO414	810	Inner Pack	O	N0	1/6	Must use
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Costco Element Note:
The number of eaches per inner container.

Syntax Rules:

1. P0203 - If either PO402 or PO403 is present, then the other is required.
2. C0506 - If PO405 is present, then PO406 is required.
3. P0607 - If either PO406 or PO407 is present, then the other is required.
4. P0809 - If either PO408 or PO409 is present, then the other is required.

5. C1013 - If PO410 is present, then PO413 is required.
6. C1113 - If PO411 is present, then PO413 is required.
7. C1213 - If PO412 is present, then PO413 is required.
8. L13101112 - If PO413 is present, then at least one of PO410, PO411 or PO412 is required.
9. C1716 - If PO417 is present, then PO416 is required.
10. C1804 - If PO418 is present, then PO404 is required.

Semantics:

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

Comments:

1. PO403 - The "Unit or Basis for Measure Code" in this segment position is for purposes of defining the pack (PO401) /size (PO402) measure which indicates the quantity in the inner pack unit. For example: If the carton contains 24 12-Ounce packages, it would be described as follows: Data element 356 = "24"; Data element 357 = "12"; Data element 355 = "OZ".
2. PO413 defines the unit of measure for PO410, PO411, and PO412.

Example:

*PO4*2764****G*8238*KG*21314*01*****28971*

PID Product/Item Description

Pos: 070	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

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
Code List Summary (Total Codes: 3, Included: 1)						
Code Name						
F Free-form						
PID02	750	Product/Process Characteristic Code	O	ID	2/3	Must use
Code List Summary (Total Codes: 217, Included: 2)						
Code Name						
GEN General Description						
MSG Market Segment						
PID05	352	Description	X	AN	1/80	Must use
Costco Element Note:						
<i>Country of Origin Label.</i>						
<i>FDA Traceability</i>						

Syntax Rules:

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

Comments:

1. If PID01 equals "F", then PID05 is used. If PID01 equals "S", then PID04 is used. If PID01 equals "X", then both PID04 and PID05 are used.
2. Use PID06 when necessary to refer to the product surface or layer being described in the segment.
3. PID07 specifies the individual code list of the agency specified in PID03.

Example:

*PID*F*MSG***ITEM DESCRIPTION GOES HERE*

REF Reference Identification

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

User Option (Usage): Used

Purpose: To specify identifying information

Element Summary:

<u>Ref</u>	<u>Id</u>	<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

Code List Summary (Total Codes: 1503, Included: 1)

Code Name

SE Serial Number

REF02	127	Reference Identification	X	AN	1/30	Must use
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Example:

*REF*SE*123456789*

REF Reference Identification

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

User Option (Usage): Must use

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

Code List Summary (Total Codes: 1503, Included: 1)

Code Name

IA Internal Vendor Number

Costco Note:

*This must match the PO
Please pull this from the PO in the REF*ZZ segment (Buyer Vendor Number)*

REF02	127	Reference Identification	X	AN	1/30	Must use
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Costco Element Note:

Buyer Vendor Number

Syntax Rules:

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

Semantics:

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

Example:

*REF*IA*BUYER VENDOR NUMBER*

REF Reference Identification

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

User Option (Usage): Must use

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

Code List Summary (Total Codes: 1503, Included: 1)

Code Name

W8 Suffix

Costco Note:

*This must match the PO
Please pull this from the PO in the REF*ZZ segment (BUYER VENDOR SUFFIX)*

REF02	127	Reference Identification	X	AN	1/30	Must use
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Costco Element Note:

Buyer Vendor Suffix.

Syntax Rules:

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

Semantics:

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

Example:

*REF*W8*BUYERSUFFIX*

REF Reference Identification

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

User Option (Usage): Used

Purpose: To specify identifying information

Element Summary:

<u>Ref</u>	<u>Id</u>	<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

Code List Summary (Total Codes: 1503, Included: 1)

Code Name

LY Destination of Shipment Harmonized-Based Code

REF02	127	Reference Identification	X	AN	1/30	Must use
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Syntax Rules:

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

Semantics:

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

Example:

REF*LY*885522774411

Costco Segment Note:

Mandatory segment for Import Shipments.

DTM Date/Time Reference

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

User Option (Usage): Used

Purpose: To specify pertinent dates and times

Element Summary:

<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

Code List Summary (Total Codes: 1112, Included: 1)

Code Name

036 Expiration

DTM02	373	Date	X	DT	8/8	Must use
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Syntax Rules:

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

Example:

DTM*036*20161203

Costco Segment Note:

**Please Use UTC Time*

**Mandatory segment for qualifying product categories such as meat, frozen food, fresh food, and produce.*

DTM Date/Time Reference

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

User Option (Usage): Used

Purpose: To specify pertinent dates and times

Element Summary:

<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

Code List Summary (Total Codes: 1112, Included: 1)

Code Name

405 Production

DTM02	373	Date	X	DT	8/8	Must use
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Syntax Rules:

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

Example:

*DTM*405*20151204*

Costco Segment Note:

**Please Use UTC Time*

**Mandatory segment for qualifying product categories such as meat, frozen food, fresh food, and produce.*

DTM Date/Time Reference

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

User Option (Usage): Used

Purpose: To specify pertinent dates and times

Element Summary:

<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

Code List Summary (Total Codes: 1112, Included: 1)

Code Name

906 Collection

DTM02	373	Date	X	DT	8/8	Must use
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Costco Element Note: *Harvest date*

Syntax Rules:

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

Example:

*DTM*906*20151204*

Costco Segment Note:

**Please Use UTC Time*

***Mandatory** segment for qualifying product categories such as meat, frozen food, fresh food, and produce.

DTM Date/Time Reference

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

User Option (Usage): Used

Purpose: To specify pertinent dates and times

Element Summary:

<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

Code List Summary (Total Codes: 1112, Included: 1)

<u>Code</u>	<u>Name</u>
510	Date Packed

DTM02	373	Date	X	DT	8/8	Must use
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Syntax Rules:

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

Example:

DTM*510*20151205

Costco Segment Note:

**Please Use UTC Time*

**Mandatory segment for qualifying product categories such as meat, frozen food, fresh food, and produce.*

DTM Date/Time Reference

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

User Option (Usage): Used

Purpose: To specify pertinent dates and times

Element Summary:

<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

Code List Summary (Total Codes: 1112, Included: 1)

Code Name

511 Shelf Life Expiration

DTM02	373	Date	X	DT	8/8	Must use
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Syntax Rules:

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

Example:

DTM*511*20161202

Costco Segment Note:

**Please Use UTC Time*

**Mandatory segment for qualifying product categories such as meat, frozen food, fresh food, and produce.*

CTT Transaction Totals

Pos: 010	Max: 1
Summary - Optional	
Loop: N/A	Elements: 2

User Option (Usage): Must use

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	N0	1/6	Must use
Costco Element Note: <i>Must be the accumulation of number of HL segments present in the transaction set.</i>						
CTT02	347	Hash Total	O	R	1/10	Must use
Costco Element Note: <i>Must be the hash total of the value of units shipped (SN102) for each SN1 segment.</i>						

Syntax Rules:

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

Comments:

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

Example:

CTT*16*12224

SE Transaction Set Trailer

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

User Option (Usage): Must use

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

Element Summary:

<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	N0	1/10	Must use
SE02	329	Transaction Set Control Number	M	AN	4/9	Must use

Comments:

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

Example:

*SE*90*0001*

GE Functional Group Trailer

Pos:	Max: 1
Not Defined - Mandatory	
Loop: N/A	Elements: 2

User Option (Usage): Must use

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

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
GE01	97	Number of Transaction Sets Included	M	N0	1/6	Must use
GE02	28	Group Control Number	M	N0	1/9	Must use

Semantics:

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

Comments:

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

Example:

*GE*1*9567*

IEA Interchange Control Trailer

Pos:	Max: 1
Not Defined - Mandatory	
Loop: N/A	Elements: 2

User Option (Usage): Must use

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

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
IEA01	I16	Number of Included Functional Groups	M	N0	1/5	Must use
IEA02	I12	Interchange Control Number	M	N0	9/9	Must use

Example:

*IEA*1*100009567*