

TMC

A DIVISION OF
C.H. ROBINSON

304 Shipping Instructions (Ocean/Air)

X12/V4010/304 : 304 Shipping Instructions (Ocean/Air)

Version: 1.6

Publication:	1/4/2024
Notes:	v1.6 Changes: Added additional notes & removed unnecessary items.

304 Shipping Instructions

Functional Group=SO

Purpose: This Draft Standard for Trial Use provides the format and establishes the data contents of the Shipment Instructions Transaction Set (304) for use within the context of an Electronic Data Interchange (EDI) environment. When this transaction set is transmitted to an ocean carrier, it provides all the information necessary to prepare and distribute a contract of carriage such as an ocean bill of lading, sea waybill, and other shipping documents. When this transaction set is transmitted to a freight forwarder or customs broker, it provides for the transmission of shipping and financial information required by the forwarder or customs broker to move cargo and provide the services requested.

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	B2	Beginning Segment for Shipment Information Transaction	M	1			Must use
030	B2A	Set Purpose	M	1			Must use
050	G1	Shipment Type Information	O	1			Used
080	N9	Reference Identification	M	200		N1/080	Must use
090	V1	Vessel Identification	M	2			Must use
115	CUR	Currency	M	1		N1/115	Used
130	M2	Sales/Delivery Terms	M	1			Must use
156	DTM	Date/Time Reference	M	20			Must use

LOOP ID - N1

100

160	N1	Name	M	1			Must use
170	N2	Additional Name Information	M	2			Must use
180	N3	Address Information	M	2			Must use
190	N4	Geographic Location	M	1			Must use
195	G61	Contact	O	3			Used

LOOP ID - R4

20

200	R4	Port or Terminal	M	1			Must use
230	K1	Remarks	O	12			Used
240	L11	Business Instructions and Reference Number	O	99			Used

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>
<u>LOOP ID - LX</u>					<u>999</u>		
010	LX	Assigned Number	M	1			Must use
<u>LOOP ID - N7</u>					<u>999</u>		
030	N7	Equipment Details	O	1			Used

<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>
050	M7	Seal Numbers	O	5			Used
060	W09	Equipment and Temperature	O	1			Used
<u>LOOP ID - L0</u>					<u>120</u>		
170	L0	Line Item - Quantity and Weight	M	1			Must use
<u>LOOP ID - PO4</u>					<u>100</u>	<u>N2/172L</u>	
172	PO4	Item Physical Details	O	1		N2/172	Used
176	QTY	Quantity	O	5		N2/176	Used
185	L5	Description, Marks and Numbers	O	999			Used
187	LIN	Item Identification	O	1			Used
195	N9	Reference Identification	M	100			Used
<u>LOOP ID - LH1</u>					<u>1</u>		
290	LH1	Hazardous Identification Information	O	1			Used
300	LH2	Hazardous Classification Information	O	4		N2/300	Used
310	LH3	Hazardous Material Shipping Name	O	10			Used
320	LFH	Freeform Hazardous Material Information	O	25			Used
370	PER	Administrative Communications Contact	O	5			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>
<u>LOOP ID - L3</u>					<u>1</u>		
010	L3	Total Weight and Charges	O	1			Used
<u>LOOP ID - L1</u>					<u>20</u>		
030	L1	Rate and Charges	O	1			Used
080	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:

- 1/080 Reference qualifiers of 06, 23, AG, CR, IL, NP, SI will be sent on all transactions. Additional reference qualifiers may be sent but may be ignored.
- 1/115 The currency specified at this position will be in effect for all monetary values except those accompanied by a currency segment. If any other currency segments are transmitted, they will apply to the loop in which they occur.
- 2/172L The PO4 loop may be used to transmit layered packaging information. The use of the PO4 loop in Table 2 Position 172 is mutually exclusive with the use of the PO4 loop in Table 2 Position 162 in a single iteration of the LX loop.
- 2/172 The PO4 loop may be used to transmit layered packaging information. The use of the PO4 loop in Table 2 Position 172 is mutually exclusive with the use of the PO4 loop in Table 2 Position 162 in a single iteration

of the LX loop.

2/176 The lading quantity of principal interest to the parties exchanging information is transmitted in the LO segment. The quantity ordered and other pertinent lading quantities are to be transmitted in the QTY segments in the LO loop.

2/300 If the hazardous endorsement (LH204) is "NONE", then use of LH204 is mandatory; however, the receiver must consider it to be blanks when printing a paper document.

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
Description: Code to identify the type of information in the Authorization Information						
Code List Summary (Total Codes: 7, Included: 1)						
Code Name						
00 No Authorization Information Present (No Meaningful Information in I02)						
ISA02	I02	Authorization Information	M	AN	10/10	Must use
Description: Information used for additional identification or authorization of the interchange sender or the data in the interchange; the type of information is set by the Authorization Information Qualifier (I01)						
ISA03	I03	Security Information Qualifier	M	ID	2/2	Must use
Description: Code to identify the type of information in the Security Information						
Code List Summary (Total Codes: 2, Included: 1)						
Code Name						
00 No Security Information Present (No Meaningful Information in I04)						
ISA04	I04	Security Information	M	AN	10/10	Must use
Description: This is used for identifying the security information about the interchange sender or the data in the interchange; the type of information is set by the Security Information Qualifier (I03)						
ISA05	I05	Interchange ID Qualifier	M	ID	2/2	Must use
Description: Qualifier to designate the system/method of code structure used to designate the sender or receiver ID element being qualified						
Code List Summary (Total Codes: 38, Included: 1)						
Code Name						
ZZ Mutually Defined						
ISA06	I06	Interchange Sender ID	M	AN	15/15	Must use
Description: Identification code published by the sender for other parties to use as the receiver ID to route data to them; the sender always codes this value in the sender ID element						
User Note 1:						
<i>PROD: RBTWTMC</i>						
<i>TEST: RBTWTMCTEST</i>						
ISA07	I05	Interchange ID Qualifier	M	ID	2/2	Must use
Description: Qualifier to designate the system/method of code structure used to designate the sender or receiver ID element being qualified						

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
All valid standard codes are used. (Total Codes: 38)						
ISA08	I07	Interchange Receiver ID	M	AN	15/15	Must use
		Description: Identification code published by the receiver of the data; When sending, it is used by the sender as their sending ID, thus other parties sending to them will use this as a receiving ID to route data to them				
ISA09	I08	Interchange Date	M	DT	6/6	Must use
		Description: Date of the interchange				
ISA10	I09	Interchange Time	M	TM	4/4	Must use
		Description: Time of the interchange				
ISA11	I10	Interchange Control Standards Identifier	M	ID	1/1	Must use
		Description: Code to identify the agency responsible for the control standard used by the message that is enclosed by the interchange header and trailer				
		Code List Summary (Total Codes: 1, Included: 1)				
		Code	Name			
		U	U.S. EDI Community of ASC X12, TDCC, and UCS			
ISA12	I11	Interchange Control Version Number	M	ID	5/5	Must use
		Description: Code specifying the version number of the interchange control segments				
		Code List Summary (Total Codes: 14, Included: 1)				
		Code	Name			
		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
		Description: A control number assigned by the interchange sender				
ISA14	I13	Acknowledgment Requested	M	ID	1/1	Must use
		Description: Code sent by the sender to request an interchange acknowledgment (TA1)				
		Code List Summary (Total Codes: 2, Included: 1)				
		Code	Name			
		1	Interchange Acknowledgment Requested			
ISA15	I14	Usage Indicator	M	ID	1/1	Must use
		Description: Code to indicate whether data enclosed by this interchange envelope is test, production or information				
		Code List Summary (Total Codes: 3, Included: 2)				
		Code	Name			
		P	Production Data			
		T	Test Data			
ISA16	I15	Component Element Separator	M		1/1	Must use
		Description: Type is not applicable; the component element separator is a delimiter and not a data element; this field provides the delimiter used to separate component data elements within a composite data structure; this value must be different than the data				

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
		element separator and the segment terminator				
		User Note 1: <i>Preferred character:</i> >				

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
Description: Code identifying a group of application related transaction sets						
Code List Summary (Total Codes: 240, Included: 1)						
Code Name						
SO Ocean Shipment Information (304, 306, 309, 311, 317, 319, 321, 322, 323, 324, 325, 350, 352, 353, 354, 355, 356, 357, 358, 361)						
GS02	142	Application Sender's Code	M	AN	2/15	Must use
Description: Code identifying party sending transmission; codes agreed to by trading partners						
User Note 1:						
<i>PROD: RBTWTMC</i>						
<i>TEST: RBTWTMCTEST</i>						
GS03	124	Application Receiver's Code	M	AN	2/15	Must use
Description: Code identifying party receiving transmission; codes agreed to by trading partners						
GS04	373	Date	M	DT	8/8	Must use
Description: Date expressed as CCYYMMDD						
GS05	337	Time	M	TM	4/8	Must use
Description: Time expressed in 24-hour clock time as follows: HHMM, or HHMMSS, or HHMMSSD, or HHMMSSDD, where H = hours (00-23), M = minutes (00-59), S = integer seconds (00-59) and DD = decimal seconds; decimal seconds are expressed as follows: D = tenths (0-9) and DD = hundredths (00-99)						
GS06	28	Group Control Number	M	N0	1/9	Must use
Description: Assigned number originated and maintained by the sender						
GS07	455	Responsible Agency Code	M	ID	1/2	Must use
Description: Code identifying the issuer of the standard; this code is used in conjunction with Data Element 480						
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
Description: Code indicating the version, release, subrelease, and industry identifier of the EDI standard being used, including the GS and GE segments; if code in DE455 in GS segment is X, then in DE 480 positions 1-3 are the version number; positions 4-6 are the						

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
		release and subrelease, level of the version; and positions 7-12 are the industry or trade association identifiers (optionally assigned by user); if code in DE455 in GS segment is T, then other formats are allowed				

Code List Summary (Total Codes: 39, Included: 1)

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

Semantics:

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

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
Description: Code uniquely identifying a Transaction Set						
All valid standard codes are used. (Total Codes: 298)						
ST02	329	Transaction Set Control Number	M	AN	4/9	Must use
Description: Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set						

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).

B2 Beginning Segment for Shipment Information Transaction

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

User Option (Usage): Must use

Purpose: To transmit basic data relating to shipment 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>
B201	375	Tariff Service Code	O	ID	2/2	Used

Description: Code specifying the types of services for rating purposes

User Note 1: All values above should be accounted for. Which movement types will be used will be determined by the customer requirements.

Code List Summary (Total Codes: 79, Included: 16)

Code Name

BB Origin CFS-to-Destination CFS
 BD Destination CFS-to-Destination Door
 BP Origin CFS-to-Destination Port
 DB Origin Door-to-Origin CFS
 DD Door-to-Door
 DO Origin Door-to-Destination CFS
 DP Door-to-Port

User Note 1:

When V109 = "A", refers to destination airport

DR Door-to-Rail
 OD Origin CFS-to-Destination Door
 PB Origin Port-to-Destination CFS
 PD Port-to-Door

User Note 1:

When V109 = "A", refers to origin airport

PP Port-to-Port

User Note 1:

When V109 = "A", refers to origin airport and destination airport

PR Port-to-Rail

User Note 1:

When V109 = "A", refers to origin airport

RD Rail-to-Door

RP Rail-to-Port

User Note 1:

When V109 = "A", refers to destination airport

RR Rail-to-Rail

B202	140	Standard Carrier Alpha Code	O	ID	2/4	Used
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Description: Standard Carrier Alpha Code

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
B204	145	Shipment Identification Number	M	AN	1/30	Must use
		Description: Identification number assigned to the shipment by the shipper that uniquely identifies the shipment from origin to ultimate destination and is not subject to modification; (Does not contain blanks or special characters)				
B206	146	Shipment Method of Payment	M	ID	2/2	Must use
		Description: Code identifying payment terms for transportation charges				
		Code List Summary (Total Codes: 28, Included: 4)				
		<u>Code</u>	<u>Name</u>			
		CC	Collect			
		PC	Prepaid but Charged to Customer			
		PP	Prepaid (by Seller)			
		TP	Third Party Pay			
B208	86	Total Equipment	O	N0	1/3	Used
		Description: Total pieces of equipment				
B211	335	Transportation Terms Code	O	ID	3/3	Used
		Description: Code identifying the trade terms which apply to the shipment transportation responsibility				
		Code List Summary (Total Codes: 25, Included: 11)				
		<u>Code</u>	<u>Name</u>			
		CFR	Cost and Freight			
		CIF	Cost, Insurance, and Freight			
		CIP	Carriage and Insurance Paid To			
		CPT	Carriage Paid To			
		DAP	Delivered at Place			
		DAT	Delivered at Terminal			
		DDP	Delivered Duty Paid			
		EXW	Ex Works			
		FAS	Free Alongside Ship			
		FCA	Free Carrier			
		FOB	Free on Board			

B2A Set Purpose

Pos: 030	Max: 1
Heading - Mandatory	
Loop: N/A	Elements: 1

User Option (Usage): Must use

Purpose: To allow for positive identification of transaction set purpose

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>
B2A01	353	Transaction Set Purpose Code	M	ID	2/2	Must use

Description: Code identifying purpose of transaction set

Code List Summary (Total Codes: 65, Included: 3)

Code Name

00 Original

User Note 1:

The initial 304 you receive may contain a value of "05" (Replace) rather than "00" (Original).

01 Cancellation

05 Replace

G1 Shipment Type Information

Pos: 050	Max: 1
Heading - Optional	
Loop: N/A	Elements: 1

User Option (Usage): Used

Purpose: To specify the General Commodity (GC) code and any required special indicators for the 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>
G101	311	Shipment Type Code	M	ID	1/2	Must use

Description: Code identifying shipment type

Code List Summary (Total Codes: 5, Included: 2)

Code Name

CS	Customer Shipment
ST	Stock Transfer

N9 Reference Identification

Pos: 080	Max: 200
Heading - Mandatory	
Loop: N/A	Elements: 3

User Option (Usage): Must use

Purpose: To transmit identifying information as specified by the Reference Identification Qualifier

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>
N901	128	Reference Identification Qualifier	M	ID	2/3	Must use

Description: Code qualifying the Reference Identification

Code List Summary (Total Codes: 1503, Included: 12)

Code Name

06	System Number	User Note 1: <i>TMC Internal Use</i>
10	Consolidation Shipment Number	User Note 1: <i>Qualifies a single number that is a key to a group of individual shipment numbers</i>
23	Client Number	User Note 1: <i>TMC Account Name, can be used for internal file routing</i>
AF	Airlines Flight Identification Number	User Note 1: <i>HWA Authorization Number, if required by TMC Customer</i>
AG	Agent's Shipment Number	User Note 1: <i>TMC Load Number, Required on 315</i>
CR	Customer Reference Number	User Note 1: <i>TMC Account Code, Required on 301</i>
FN	Forwarder's/Agent's Reference Number	User Note 1: <i>Value sent with same qualifier on 301 will be returned on subsequent 304s</i>
IL	Internal Order Number	User Note 1: <i>TMC Order Number, Required on 301</i>
NP	Partial Payment Number	User Note 1: <i>TMC Internal Use</i>
PH	Priority Rating	User Note 1: <i>Indicated 'Air' service level. Values will be mutually agreed upon during the project.</i>
RU	Route code	User Note 1: <i>TMC Internal Use</i>

Code Name

SI Shipper's Identifying Number for Shipment (SID)

User Note 1:*Primary Customer Reference Number*

N902	127	Reference Identification	X	AN	1/80	Used
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Description: Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier

N903	369	Free-form Description	X	AN	1/45	Used
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Description: Free-form descriptive text

Syntax Rules:

1. R0203 - At least one of N902 or N903 is required.

Semantics:

- 1.

V1 Vessel Identification

Pos: 090	Max: 2
Heading - Mandatory	
Loop: N/A	Elements: 4

User Option (Usage): Must use

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	M	ID	1/8	Must use

Description: Code identifying vessel - IMO number

User Note 1:

If Vessel Code (IMO#) is not yet known by TMC, a value of "TBD" will be passed to satisfy the syntax rule.

V102	182	Vessel Name	M	AN	2/28	Must use
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Description: Name of ship as documented in "Lloyd's Register of Ships"

User Note 1:

If Vessel Name is not yet known by TMC, a value of "TBD" will be passed to satisfy the syntax rule.

V104	55	Flight/Voyage Number	O	AN	2/10	Used
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Description: Identifying designator for the particular flight or voyage on which the cargo travels

V109	91	Transportation Method/Type Code	M	ID	1/2	Must use
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Description: Code specifying the method or type of transportation for the shipment

Code List Summary (Total Codes: 71, Included: 2)

Code Name

A	Air
VE	Vessel, Ocean

CUR Currency

Pos: 115	Max: 1
Heading - Mandatory	
Loop: N/A	Elements: 2

User Option (Usage): Used

Purpose: To specify the currency (dollars, pounds, francs, etc.) used in a transaction

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>
CUR01	98	Entity Identifier Code	M	ID	2/3	Must use

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

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

Code Name

ZZ Mutually Defined

CUR02	100	Currency Code	M	ID	3/3	Must use
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Description: Code (Standard ISO) for country in whose currency the charges are specified

M2 Sales/Delivery Terms

Pos: 130	Max: 1
Heading - Mandatory	
Loop: N/A	Elements: 4

User Option (Usage): Must use

Purpose: To state terms and dates

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>
M201	139	Sales Terms Code	O	ID	2/2	Used

Description: Code identifying terms of sale

Code List Summary (Total Codes: 13, Included: 1)

Code Name

ZZ Mutually Defined

M204	335	Transportation Terms Code	O	ID	3/3	Used
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Description: Code identifying the trade terms which apply to the shipment transportation responsibility

Code List Summary (Total Codes: 27, Included: 11)

Code Name

CFR Cost and Freight
 CIF Cost, Insurance, and Freight
 CIP Carriage and Insurance Paid To
 CPT Carriage Paid To
 DAP Delivery at Place
 DAT Delivery at Terminal
 DDP Delivered Duty Paid
 EXW Ex Works
 FAS Free Alongside Ship
 FCA Free Carrier
 FOB Free on Board

M207	309	Location Qualifier	X	ID	1/2	Used
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Description: Code identifying type of location

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

Code Name

DL Delivery Location

M208	310	Location Identifier	X	AN	1/30	Used
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Description: Code which identifies a specific location

User Note 1: *INCOTerms Named Location*

Syntax Rules:

1. P0708 - If either M207 or M208 is present, then the other is required.

DTM Date/Time Reference

Pos: 156	Max: 20
Heading - Mandatory	
Loop: N/A	Elements: 4

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

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

Code List Summary (Total Codes: 1112, Included: 3)

Code Name

002 Delivery Requested

010 Requested Ship

User Note 1:

Latest Pickup Date

018 Available

User Note 1:

Earliest Pickup Date

DTM02	373	Date	M	DT	8/8	Used
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Description: Date expressed as CCYYMMDD

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

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

DTM04	623	Time Code	O	ID	2/2	Used
-------	-----	-----------	---	----	-----	------

Description: Code identifying the time. In accordance with International Standards Organization standard 8601, time can be specified by a + or - and an indication in hours in relation to Universal Time Coordinate (UTC) time; since + is a restricted character, + and - are substituted by P and M in the codes that follow

Code List Summary (Total Codes: 51, Included: 1)

Code Name

LT Local Time

Syntax Rules:

1. R020305 - At least one of DTM02, DTM03 or DTM05 is required.
2. C0403 - If DTM04 is present, then DTM03 is required.

N1 Name

Pos: 160	Max: 1
Heading - Mandatory	
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

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

User Note 1:

SF, ST, and CN loops will be sent on all transactions. Additional loops may be sent if provided by the customer.

Code List Summary (Total Codes: 1312, Included: 9)

Code Name

BT Bill-to-Party

CN Consignee

User Note 1:

Party which 1st takes delivery of freight

EX Exporter

N1 Notify Party no. 1

SD Sold To and Ship To

SF Ship From

User Note 1:

Shipment Origin

ST Ship To

User Note 1:

Shipment Destination

SU Supplier/Manufacturer

UC Ultimate Consignee

User Note 1:

Party which takes final delivery of freight

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

Description: Free-form name

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

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

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

Code Name

93 Code assigned by the organization originating the transaction set

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

Description: Code identifying a party or other code

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
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User Note 1:

A list of locations and their corresponding identification codes can be provided upon request.

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.

N2 Additional Name Information

Pos: 170	Max: 2
Heading - Mandatory	
Loop: N1	Elements: 2

User Option (Usage): Must use

Purpose: To specify additional names or those longer than 35 characters in length

Element Summary:

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

N3 Address Information

Pos: 180	Max: 2
Heading - Mandatory	
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
		Description: Address information				
N302	166	Address Information	O	AN	1/55	Used
		Description: Address information				

N4 Geographic Location

Pos: 190	Max: 1
Heading - Mandatory	
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	Used
		Description: Free-form text for city name				
N402	156	State or Province Code	O	ID	1/2	Used
		Description: Code (Standard State/Province) as defined by appropriate government agency				
		User Note 1:				
		<i>Min/Max has been adjusted to 1/2 from the standard of 2/2. This is to account for countries which have one character state or province codes.</i>				
N403	116	Postal Code	O	ID	1/15	Used
		Description: Code defining international postal zone code excluding punctuation and blanks (zip code for United States)				
N404	26	Country Code	O	ID	2/3	Used
		Description: Code identifying the country				

G61 Contact

Pos: 195	Max: 3
Heading - Optional	
Loop: N1	Elements: 4

User Option (Usage): Used

Purpose: To identify a person or office to whom 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>
G6101	366	Contact Function Code	M	ID	2/2	Must use

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

Code List Summary (Total Codes: 230, Included: 1)

Code Name

ZZ Mutually Defined

G6102	93	Name	M	AN	1/60	Must use
-------	----	-------------	---	----	------	----------

Description: Free-form name

G6103	365	Communication Number Qualifier	X	ID	2/2	Used
-------	-----	---------------------------------------	---	----	-----	------

Description: Code identifying the type of communication number

Code List Summary (Total Codes: 40, Included: 2)

Code Name

EM Electronic Mail

TE Telephone

G6104	364	Communication Number	X	AN	1/80	Used
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Description: Complete communications number including country or area code when applicable

Syntax Rules:

1. P0304 - If either G6103 or G6104 is present, then the other is required.

R4 Port or Terminal

Pos: 200	Max: 1
Heading - Mandatory	
Loop: R4	Elements: 6

User Option (Usage): Must use

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

Description: Code defining function performed at the port or terminal with respect to a shipment

User Note 1:

If Port of Loading and Port of Discharge are unknown by TMC, the loops will be omitted. Place of Receipt and Place of Delivery will always be sent.

Code List Summary (Total Codes: 30, Included: 4)

Code Name

D Port of Discharge

User Note 1:

When V109 = "A", this refers to destination airport

E Place of Delivery

User Note 1:

Required - Place at which cargo leaves its care and custody of carrier.

L Port of Loading

User Note 1:

When V109 = "A", this refers to origin airport

R Place of Receipt

User Note 1:

Required - Place at which cargo enters the care and custody of carrier

R402	309	Location Qualifier	M	ID	1/2	Must use
------	-----	---------------------------	---	----	-----	----------

Description: Code identifying type of location

Code List Summary (Total Codes: 172, Included: 3)

Code Name

CI City

IA International Air Transport Association (IATA) Location Qualifier

UN United Nations Location Code (UNLOCODE)

R403	310	Location Identifier	M	AN	1/30	Must use
------	-----	----------------------------	---	----	------	----------

Description: Code which identifies a specific location

User Note 1:

When the mode is Ocean, Port of Loading and Port of Discharge will transmit the UNLOC. When the mode is Air, the Port of Loading and Port of Discharge will transmit the IATA code.

R404	114	Port Name	O	AN	2/24	Used
------	-----	------------------	---	----	------	------

Description: Free-form name for the place at which an offshore carrier originates or terminates (by transshipment or otherwise) its actual ocean carriage of property

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
R405	26	Country Code	O	ID	2/3	Used
		Description: Code identifying the country				
R408	156	State or Province Code	O	ID	1/2	Used
		Description: Code (Standard State/Province) as defined by appropriate government agency				

Syntax Rules:

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

K1 Remarks

Pos: 230	Max: 12
Heading - Optional	
Loop: N/A	Elements: 2

User Option (Usage): Used

Purpose: To transmit information in a free-form format for comment or special instruction

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>
K101	61	Free-Form Message	M	AN	1/30	Must use
		Description: Free-form information				
K102	61	Free-Form Message	O	AN	1/30	Used
		Description: Free-form information				

L11 Business Instructions and Reference Number

Pos: 240	Max: 99
Heading - Optional	
Loop: N/A	Elements: 3

User Option (Usage): Used

Purpose: To specify instructions in this business relationship or a reference 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>
L1101	127	Reference Identification	X	AN	1/30	Used

Description: Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier

L1102	128	Reference Identification Qualifier	X	ID	2/3	Used
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Description: Code qualifying the Reference Identification

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

Code Name

ZZ Mutually Defined

L1103	352	Description	X	AN	1/80	Used
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Description: A free-form description to clarify the related data elements and their content

Syntax Rules:

1. R0103 - At least one of L1101 or L1103 is required.
2. P0102 - If either L1101 or L1102 is present, then the other is required.

LX Assigned Number

Pos: 010	Max: 1
Detail - Mandatory	
Loop: LX	Elements: 1

User Option (Usage): Must use

Purpose: To reference a line number in a 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>
LX01	554	Assigned Number	M	N0	1/6	Must use

Description: Number assigned for differentiation within a transaction set

N7 Equipment Details

Pos: 030	Max: 1
Detail - Optional	
Loop: N7	Elements: 10

User Option (Usage): Used

Purpose: To identify the equipment

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>
N701	206	Equipment Initial	O	AN	1/4	Used
		Description: Prefix or alphabetic part of an equipment unit's identifying number				
N702	207	Equipment Number	O	AN	1/10	Used
		Description: Sequencing or serial part of an equipment unit's identifying number (pure numeric form for equipment number is preferred)				
N703	81	Weight	X	R	1/10	Used
		Description: Numeric value of weight				
N704	187	Weight Qualifier	X	ID	1/2	Used
		Description: Code defining the type of weight				
		Code List Summary (Total Codes: 51, Included: 2)				
		<u>Code</u> <u>Name</u>				
		G Gross Weight				
		N Actual Net Weight				
N711	40	Equipment Description Code	O	ID	2/2	Used
		Description: Code identifying type of equipment used for shipment				
		Code List Summary (Total Codes: 136, Included: 6)				
		<u>Code</u> <u>Name</u>				
		CN Container				
		CX Container, Tank				
		CZ Refrigerated Container				
		HV High Cube Van				
		PH High Cube Pallet Wide				
		PW Pallet Wide				
N712	140	Standard Carrier Alpha Code	O	ID	2/4	Used
		Description: Standard Carrier Alpha Code				
N715	567	Equipment Length	O	N0	4/5	Used
		User Note 1: <i>Possible values:</i>				
		2000 (20 foot)				
		4000 (40 foot)				
		4500 (45 foot)				
N717	188	Weight Unit Code	O	ID	1/1	Used
		Description: Code specifying the weight unit				

Code List Summary (Total Codes: 8, Included: 2)**Code Name**

K Kilograms

L Pounds

N718	761	Equipment Number Check Digit	O	N0	1/1	Used
N722	24	Equipment Type	O	ID	4/4	Used

Description: Number which designates the check digit applied to a piece of equipment

Description: Code identifying equipment type

User Note 1: When container length and type are available, N722 will list a concatenation of N711 (Equipment Type) + first two digits of N715 (Equipment Length)

User Note 2: When container length and type are not available, N722 will indicate a container type of "LCL1"

User Note 3: List of Container Types:

CN20 20 STANDARD CONTAINER

HV20 20' HIGH CUBE CONTAINER

CX20 20' ISO TANK CONTAINER

PW20 20' PALLET WIDE CONTAINER

CZ20 20' REEFER CONTAINER

CN24 24' STANDARD CONTAINER

HV24 24' HIGH CUBE CONTAINER

CN40 40' STANDARD CONTAINER

HV40 40' HIGH CUBE CONTAINER

PH40 40' HIGH CUBE PALLET WIDE CONTAINER

PW40 40' PALLET WIDE

CZ40 40' REEFER CONTAINER

CX40 40' ISO TANK CONTAINER

PH45 45' HIGH CUBE PALLET WIDE CONTAINER

CZ45 45' REEFER CONTAINER

LCL1 LCL / GROUPAGE

Syntax Rules:

1. P0304 - If either N703 or N704 is present, then the other is required.

Semantics:

- 1.

User Note 1:

N7 segment will not be sent when V109 = "A".

M7 Seal Numbers

Pos: 050	Max: 5
Detail - Optional	
Loop: N7	Elements: 1

User Option (Usage): Used

Purpose: To record seal numbers used and the organization that applied the seals

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>
M701	225	Seal Number	M	AN	2/15	Must use

Description: Unique number on seal used to close a shipment

W09 Equipment and Temperature

Pos: 060	Max: 1
Detail - Optional	
Loop: N7	Elements: 6

User Option (Usage): Used

Purpose: To relate equipment type and required temperatures

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>
W0901	40	Equipment Description Code	M	ID	2/2	Must use

Description: Code identifying type of equipment used for shipment

Code List Summary (Total Codes: 134, Included: 4)

Code Name

CN	Container
CX	Container, Tank
CZ	Refrigerated Container
HV	High Cube Van

W0902	408	Temperature	X	R	1/4	Used
-------	-----	--------------------	---	---	-----	------

Description: Temperature

User Note 1: *Required Low Temperature*

W0903	355	Unit or Basis for Measurement Code	X	ID	2/2	Used
-------	-----	---	---	----	-----	------

Description: Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken

Code List Summary (Total Codes: 794, Included: 2)

Code Name

CE	Centigrade, Celsius
FA	Fahrenheit

W0904	408	Temperature	X	R	1/4	Used
-------	-----	--------------------	---	---	-----	------

Description: Temperature

User Note 1: *Required High Temperature*

W0905	355	Unit or Basis for Measurement Code	X	ID	2/2	Used
-------	-----	---	---	----	-----	------

Description: Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken

Code List Summary (Total Codes: 794, Included: 2)

Code Name

CE	Centigrade, Celsius
FA	Fahrenheit

W0906	3	Free Form Message	O	AN	1/60	Used
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Description: Free-form text

Syntax Rules:

1. P0203 - If either W0902 or W0903 is present, then the other is required.
2. P0405 - If either W0904 or W0905 is present, then the other is required.

Semantics:

1. W0902 is the minimum allowable temperature condition for shipment; (the qualifying temperature scale is specified in W0903).
2. W0904 is the maximum allowable temperature condition for shipment; (the qualifying temperature scale is specified in W0905).
3. W0906 is used to describe the environment required within an ocean-type, refrigerated container when other than normal air is required.
4. W0908 is the humidity percentage.
5. W0909 is the number of air exchanges per hour.

L0 Line Item - Quantity and Weight

Pos: 170	Max: 1
Detail - Mandatory	
Loop: L0	Elements: 11

User Option (Usage): Must use

Purpose: To specify quantity, weight, volume, and type of service for a line item including applicable "quantity/rate-as" 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>
L001	213	Lading Line Item Number	O	N0	1/3	Used
		Description: Sequential line number for a lading item				
L004	81	Weight	M	R	1/10	Must use
		Description: Numeric value of weight				
L005	187	Weight Qualifier	M	ID	1/2	Must use
		Description: Code defining the type of weight				
		Code List Summary (Total Codes: 51, Included: 1)				
		<u>Code</u>	<u>Name</u>			
		G	Gross Weight			
L006	183	Volume	X	R	1/8	Used
		Description: Value of volumetric measure				
L007	184	Volume Unit Qualifier	X	ID	1/1	Used
		Description: Code identifying the volume unit				
		Code List Summary (Total Codes: 16, Included: 2)				
		<u>Code</u>	<u>Name</u>			
		E	Cubic Feet			
		X	Cubic Meters			
L008	80	Lading Quantity	M	N0	1/7	Must use
		Description: Number of units (pieces) of the lading commodity				
		User Note 1:				
		<i>Represents item outer packaging quantity</i>				
L009	211	Packaging Form Code	M	ID	3/3	Must use
		Description: Code for packaging form of the lading quantity				
		Code List Summary (Total Codes: 134, Included: 33)				
		<u>Code</u>	<u>Name</u>			
		BAG	Bag			
		BAL	Bale			
		BDL	Bundle			
		BIN	Bin			
		BLK	Bulk			
		BOT	Bottle			

<u>Code</u>	<u>Name</u>
BOX	Box
BXT	Bucket
CAS	Case
CRT	Crate
CTN	Carton
CYL	Cylinder
DRM	Drum
JAR	Jar
JUG	Jug
KIT	Kit
LBK	Liquid Bulk
LSE	Loose
PAL	Pail
PCS	Pieces
PKG	Package
PLT	Pallet
RCK	Rack
REL	Reel
ROL	Roll
SHT	Sheet
SKD	Skid
SKE	Skid, elevating or lift truck
SLP	Slip Sheet
TBN	Tote Bin
TLD	Intermodal Trailer/Container Load (Rail)
TRY	Tray
TUB	Tub

L011 188 **Weight Unit Code** O ID 1/1 Used

Description: Code specifying the weight unit

Code List Summary (Total Codes: 8, Included: 2)

Code Name

K Kilograms
L Pounds

L013 380 **Quantity** X R 1/15 Used

Description: Numeric value of quantity

User Note 1:

Represents item inner packaging quantity

L014 211 **Packaging Form Code** O ID 3/3 Used

Description: Code for packaging form of the lading quantity

User Note 1: *See L009 for complete list.*

User Note 2: *Used to communicate inner pack details.*

All valid standard codes are used. (Total Codes: 134)

L015 1073 **Yes/No Condition or Response Code** X ID 1/1 Used

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
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Description: Code indicating a Yes or No condition or response

Code List Summary (Total Codes: 4, Included: 1)

Code Name

W Not Applicable

Syntax Rules:

1. P0405 - If either L004 or L005 is present, then the other is required.
2. P0607 - If either L006 or L007 is present, then the other is required.
3. P0809 - If either L008 or L009 is present, then the other is required.
4. C1104 - If L011 is present, then L004 is required.
5. P1315 - If either L013 or L015 is present, then the other is required.

Semantics:

- 1.

PO4 Item Physical Details

Pos: 172	Max: 1
Detail - Optional	
Loop: PO4	Elements: 4

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>
PO410	82	Length	X	R	1/8	Used
		Description: Largest horizontal dimension of an object measured when the object is in the upright position				
PO411	189	Width	X	R	1/8	Used
		Description: Shorter measurement of the two horizontal dimensions measured with the object in the upright position				
PO412	65	Height	X	R	1/8	Used
		Description: Vertical dimension of an object measured when the object is in the upright position				
PO413	355	Unit or Basis for Measurement Code	X	ID	2/2	Used
		Description: Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken				

Code List Summary (Total Codes: 794, Included: 4)

Code Name

CM	Centimeter
IN	Inch
LF	Linear Foot
LM	Linear Meter

Syntax Rules:

1. C1013 - If PO410 is present, then PO413 is required.
2. C1113 - If PO411 is present, then PO413 is required.
3. C1213 - If PO412 is present, then PO413 is required.
4. L13101112 - If PO413 is present, then at least one of PO410, PO411 or PO412 is required.

QTY Quantity

Pos: 176	Max: 5
Detail - Optional	
Loop: L0	Elements: 3

User Option (Usage): Used

Purpose: To specify quantity 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>
QTY01	673	Quantity Qualifier	M	ID	2/2	Must use

Description: Code specifying the type of quantity

Code List Summary (Total Codes: 832, Included: 1)

Code Name

38 Original Quantity

QTY02	380	Quantity	M	R	1/15	Must use
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Description: Numeric value of quantity

User Note 1: Value represents the number of pallets associated with the item.

QTY03	C001	Composite Unit of Measure	O	Comp		Used
-------	------	---------------------------	---	------	--	------

Description: To identify a composite unit of measure(See Figures Appendix for examples of use)

QTY03-01	355	Unit or Basis for Measurement Code	M	ID	2/2	Must use
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Description: Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken

Code List Summary (Total Codes: 794, Included: 1)

Code Name

PL Pallet

L5 Description, Marks and Numbers

Pos: 185	Max: 999
Detail - Optional	
Loop: L0	Elements: 6

User Option (Usage): Used

Purpose: To specify the line item in terms of description, quantity, packaging, and marks and numbers

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>
L501	213	Lading Line Item Number	O	N0	1/3	Used
		Description: Sequential line number for a lading item				
L503	22	Commodity Code	X	AN	1/30	Used
		Description: Code describing a commodity or group of commodities				
L504	23	Commodity Code Qualifier	X	ID	1/1	Used
		Description: Code identifying the commodity coding system used for Commodity Code				
		Code List Summary (Total Codes: 23, Included: 1)				
		<u>Code</u>	<u>Name</u>			
		A	Harmonized Tariff Schedule of the United States Annotated			
L506	87	Marks and Numbers	X	AN	1/48	Used
		Description: Marks and numbers used to identify a shipment or parts of a shipment				
L508	23	Commodity Code Qualifier	X	ID	1/1	Used
		Description: Code identifying the commodity coding system used for Commodity Code				
		Code List Summary (Total Codes: 23, Included: 1)				
		<u>Code</u>	<u>Name</u>			
		B	U.S. Foreign Trade Schedule B, Statistical Classification of Domestic and Foreign Commodities Exported from the United States			
L509	22	Commodity Code	X	AN	1/30	Used
		Description: Code describing a commodity or group of commodities				

Syntax Rules:

1. P0304 - If either L503 or L504 is present, then the other is required.
2. C0706 - If L507 is present, then L506 is required.
3. P0809 - If either L508 or L509 is present, then the other is required.

LIN Item Identification

Pos: 187	Max: 1
Detail - Optional	
Loop: L0	Elements: 19

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
		Description: Alphanumeric characters assigned for differentiation within a transaction set				
LIN02	235	Product/Service ID Qualifier	M	ID	2/2	Must use
		Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234)				
		Code List Summary (Total Codes: 477, Included: 1)				
		Code Name				
		PN Company Part Number				
LIN03	234	Product/Service ID	M	AN	1/48	Must use
		Description: Identifying number for a product or service				
LIN04	235	Product/Service ID Qualifier	M	ID	2/2	Must use
		Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234)				
		Code List Summary (Total Codes: 477, Included: 1)				
		Code Name				
		CN Commodity Name				
LIN05	234	Product/Service ID	M	AN	1/48	Must use
		Description: Identifying number for a product or service				
LIN06	235	Product/Service ID Qualifier	X	ID	2/2	Used
		Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234)				
		Code List Summary (Total Codes: 477, Included: 1)				
		Code Name				
		SK Stock Keeping Unit (SKU)				
LIN07	234	Product/Service ID	X	AN	1/48	Used
		Description: Identifying number for a product or service				
LIN08	235	Product/Service ID Qualifier	X	ID	2/2	Used
		Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234)				
		Code List Summary (Total Codes: 477, Included: 1)				
		Code Name				
		BL Brand/Label				

LIN09	234	Product/Service ID	X	AN	1/48	Used
		Description: Identifying number for a product or service				
LIN10	235	Product/Service ID Qualifier	X	ID	2/2	Used
		Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234)				
		Code List Summary (Total Codes: 477, Included: 1)				
		<u>Code Name</u>				
		BP Buyer's Part Number				
LIN11	234	Product/Service ID	X	AN	1/48	Used
		Description: Identifying number for a product or service				
LIN12	235	Product/Service ID Qualifier	X	ID	2/2	Used
		Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234)				
		Code List Summary (Total Codes: 477, Included: 1)				
		<u>Code Name</u>				
		UP U.P.C. Consumer Package Code (1-5-5-1)				
LIN13	234	Product/Service ID	X	AN	1/48	Used
		Description: Identifying number for a product or service				
LIN14	235	Product/Service ID Qualifier	X	ID	2/2	Used
		Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234)				
		Code List Summary (Total Codes: 477, Included: 1)				
		<u>Code Name</u>				
		VN Vendor's (Seller's) Item Number				
LIN15	234	Product/Service ID	X	AN	1/48	Used
		Description: Identifying number for a product or service				
LIN16	235	Product/Service ID Qualifier	X	ID	2/2	Used
		Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234)				
		Code List Summary (Total Codes: 477, Included: 1)				
		<u>Code Name</u>				
		CH Country of Origin Code				
LIN17	234	Product/Service ID	X	AN	1/48	Used
		Description: Identifying number for a product or service				
LIN20	235	Product/Service ID Qualifier	X	ID	2/2	Used
		Description: Code identifying the type/source of the descriptive number used in Product/Service ID (234)				
		Code List Summary (Total Codes: 477, Included: 1)				

		<u>Code</u>	<u>Name</u>				
		PI	Purchaser's Item Code				
LIN21	234	Product/Service ID		X	AN	1/48	Used
Description: Identifying number for a product or service							

Syntax Rules:

1. P0405 - If either LIN04 or LIN05 is present, then the other is required.
2. P0607 - If either LIN06 or LIN07 is present, then the other is required.
3. P0809 - If either LIN08 or LIN09 is present, then the other is required.
4. P1011 - If either LIN10 or LIN11 is present, then the other is required.
5. P1213 - If either LIN12 or LIN13 is present, then the other is required.
6. P1415 - If either LIN14 or LIN15 is present, then the other is required.
7. P1617 - If either LIN16 or LIN17 is present, then the other is required.
8. P1819 - If either LIN18 or LIN19 is present, then the other is required.
9. P2021 - If either LIN20 or LIN21 is present, then the other is required.

Semantics:

1. LIN01 is the line item identification

N9 Reference Identification

Pos: 195	Max: 100
Detail - Mandatory	
Loop: L0	Elements: 2

User Option (Usage): Used

Purpose: To transmit identifying information as specified by the Reference Identification Qualifier

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>
N901	128	Reference Identification Qualifier	M	ID	2/3	Must use

Description: Code qualifying the Reference Identification

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

Code Name

IL Internal Order Number

User Note 1:

TMC Order Number

S7 Stack Train Identification

User Note 1:

Item is stackable (True/False)

N902	127	Reference Identification	M	AN	1/30	Must use
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Description: Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier

Syntax Rules:

1. R0203 - At least one of N902 or N903 is required.

LH1 Hazardous Identification Information

Pos: 290	Max: 1
Detail - Optional	
Loop: LH1	Elements: 4

User Option (Usage): Used

Purpose: To specify the hazardous commodity identification reference number 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>
LH101	355	Unit or Basis for Measurement Code	M	ID	2/2	Must use
		Description: Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken				
		Code List Summary (Total Codes: 794, Included: 1)				
		<u>Code</u>	<u>Name</u>			
		ZZ	Mutually Defined			
LH102	80	Lading Quantity	M	N0	1/7	Must use
		Description: Number of units (pieces) of the lading commodity				
LH103	277	UN/NA Identification Code	M	ID	6/6	Must use
		Description: Code identifying the hazardous material identification number as required by Title 49 of the code of Federal Regulations; UN/NA stands for United Nations/North America				
LH110	254	Packing Group Code	O	ID	1/3	Used
		Description: Code indicating degree of danger in terms of Roman number I, II or III				

LH2 Hazardous Classification Information

Pos: 300	Max: 4
Detail - Optional	
Loop: LH1	Elements: 4

User Option (Usage): Used

Purpose: To specify the hazardous notation and endorsement 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>
LH201	215	Hazardous Classification	O	ID	1/30	Used
		Description: The hazardous classification corresponding to the shipping name of the hazardous commodity				
LH205	759	Reportable Quantity Code	O	ID	2/2	Used
		Description: Code to identify presence of hazardous substance All valid standard codes are used. (Total Codes: 1)				
LH206	355	Unit or Basis for Measurement Code	X	ID	2/2	Used
		Description: Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken				
		Code List Summary (Total Codes: 794, Included: 2)				
		<u>Code</u>	<u>Name</u>			
		CE	Centigrade, Celsius			
		FA	Fahrenheit			
LH207	408	Temperature	X	R	1/4	Used
		Description: Temperature				
		User Note 1: <i>Flashpoint Temperature</i>				

Syntax Rules:

1. P0607 - If either LH206 or LH207 is present, then the other is required.

Semantics:

1. LH206 and LH207 indicate the flashpoint temperature.

LH3 Hazardous Material Shipping Name

Pos: 310	Max: 10
Detail - Optional	
Loop: LH1	Elements: 3

User Option (Usage): Used

Purpose: To specify the hazardous material shipping name and additional descriptive requirements

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>
LH301	224	Hazardous Material Shipping Name	X	AN	1/25	Used
		Description: The proper shipping name of the hazardous commodity as specified by the Code of Federal Regulations, Title 49				
LH302	984	Hazardous Material Shipping Name Qualifier	X	ID	1/1	Used
		Description: Qualifier indicating the source (regulatory) of the proper shipping name				
LH303	985	N.O.S. Indicator Code	O	ID	3/3	Used
		Description: Code indicating the type of regulatory requirements that apply to a description; N.O.S. stands for Not Otherwise Specified				
		All valid standard codes are used. (Total Codes: 1)				

Syntax Rules:

1. P0102 - If either LH301 or LH302 is present, then the other is required.

LFH Freeform Hazardous Material Information

Pos: 320	Max: 25
Detail - Optional	
Loop: LH1	Elements: 3

User Option (Usage): Used

Purpose: To uniquely identify the variable information required by government regulation covering the transportation of hazardous material shipments

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>
LFH01	808	Hazardous Material Shipment Information Qualifier	M	ID	3/3	Must use

Description: Qualifier indicating the type of information being passed so that a receiver may format a description of hazardous commodity movements that meets regulatory requirements

Code List Summary (Total Codes: 19, Included: 4)

Code Name

ADI Additional Descriptive Information Not Required by Regulation but Desired to Accompany the Movement by the Shipper

User Note 1:

Indicates vessel stowage category

EMS Emergency Schedule (EMS) Page Number

LQY "Limited Quantity" Declaration

MPI Marine Pollutant

User Note 1:

Indicates marine pollutant category

LFH02	809	Hazardous Material Shipment Information	M	AN	1/25	Must use
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Description: Specific information required by law for hazardous material shipments

LFH03	809	Hazardous Material Shipment Information	O	AN	1/25	Used
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Description: Specific information required by law for hazardous material shipments

Syntax Rules:

1. P0506 - If either LFH05 or LFH06 is present, then the other is required.

Semantics:

1. LFH06 indicates activity of the radioactive material.
2. LFH07 indicates transport index of the radioactive material.

PER Administrative Communications Contact

Pos: 370	Max: 5
Detail - Optional	
Loop: LH1	Elements: 2

User Option (Usage): Used

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

Element Summary:

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

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

Code List Summary (Total Codes: 230, Included: 1)

Code Name

EM Emergency Contact

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

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.

L3 Total Weight and Charges

Pos: 010	Max: 1
Summary - Optional	
Loop: L3	Elements: 7

User Option (Usage): Used

Purpose: To specify the total shipment in terms of weight, volume, rates, charges, advances, and prepaid amounts applicable to one or more line items

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>
L301	81	Weight	X	R	1/10	Used

Description: Numeric value of weight

L302	187	Weight Qualifier	X	ID	1/2	Used
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Description: Code defining the type of weight

Code List Summary (Total Codes: 51, Included: 1)

Code Name

G Gross Weight

L309	183	Volume	X	R	1/8	Used
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Description: Value of volumetric measure

L310	184	Volume Unit Qualifier	X	ID	1/1	Used
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Description: Code identifying the volume unit

Code List Summary (Total Codes: 16, Included: 2)

Code Name

E Cubic Feet

X Cubic Meters

L312	188	Weight Unit Code	O	ID	1/1	Used
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Description: Code specifying the weight unit

Code List Summary (Total Codes: 8, Included: 2)

Code Name

K Kilograms

L Pounds

L314	74	Declared Value	X	N2	2/12	Used
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Description: Monetary assigned value expressed in the standard monetary denomination for the currency specified

User Note 1: *Total Shipment Item Value*

L315	122	Rate/Value Qualifier	X	ID	2/2	Used
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Description: Code qualifying how to extend charges or interpret value

Code List Summary (Total Codes: 163, Included: 1)

Code Name

BL Bill of Lading Declared Value

Syntax Rules:

1. P0102 - If either L301 or L302 is present, then the other is required.
2. P0304 - If either L303 or L304 is present, then the other is required.
3. P0910 - If either L309 or L310 is present, then the other is required.
4. C1201 - If L312 is present, then L301 is required.

Semantics:

- 1.

L1 Rate and Charges

Pos: 030	Max: 1
Summary - Optional	
Loop: L1	Elements: 3

User Option (Usage): Used

Purpose: To specify rate and charges detail relative to a line item including freight charges, advances, special charges, and entitlements

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>
L104	58	Charge	X	N2	1/12	Used

Description: For a line item: freight or special charge; for the total invoice: the total charges -- expressed in the standard monetary denomination for the currency specified

L108	150	Special Charge or Allowance Code	O	ID	3/3	Used
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Description: Code identifying type of special charge or allowance

Code List Summary (Total Codes: 1073, Included: 3)

Code Name

400 Freight
405 Fuel Surcharge
MSC Other Accessorial Service Charge

L120	100	Currency Code	O	ID	3/3	Used
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Description: Code (Standard ISO) for country in whose currency the charges are specified

Syntax Rules:

1. P0203 - If either L102 or L103 is present, then the other is required.
2. R040506 - At least one of L104, L105 or L106 is required.
3. P1415 - If either L114 or L115 is present, then the other is required.
4. P1718 - If either L117 or L118 is present, then the other is required.

Semantics:

1. L119 is the percent used to determine the charge in L104.
2. L120, if used, indicates the currency for all monetary amounts in this L1 segment.
3. L121 is the origin rated as charge amount.

SE Transaction Set Trailer

Pos: 080	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
		Description: Total number of segments included in a transaction set including ST and SE segments				
SE02	329	Transaction Set Control Number	M	AN	4/9	Must use
		Description: Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set				

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
		Description: Total number of transaction sets included in the functional group or interchange (transmission) group terminated by the trailer containing this data element				
GE02	28	Group Control Number	M	N0	1/9	Must use
		Description: Assigned number originated and maintained by the sender				

Semantics:

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

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
		Description: A count of the number of functional groups included in an interchange				
IEA02	I12	Interchange Control Number	M	N0	9/9	Must use
		Description: A control number assigned by the interchange sender				