

TMC

A DIVISION OF
C.H. ROBINSON

310 Ocean Freight Receipt and Invoice

X12/V4010/310 : 310 Ocean Freight Receipt and Invoice

Version: 1.4 Final

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Notes

Changes:

3/7/22:

- B308 – Added CO for Correction.
- L303/L304 – Added syntax rule as both are required if either sent.
- LX / N722 – Updated PH45 notes to include “Pallet Wide”.

Older Updates:

Header-level B3 segment:

- Removed B302 user note
- Modified B303 user notes
- Narrowed B308 codes to only "BD" - 7/26/2021
- Removed B312

Header-level N9 segment:

- Added N901 qualifiers: BN, AW

Detail-level N1 Segment

- Removed N9 segment (within N1 loop)

Detail-level LX segment

- Modified Max use to 999

Detail-level L0 segment

- Modified usage to optional

Detail-level L5 segment

- Modified usage to optional

Detail-level L1 segment

- Modified L108 codes

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310 Freight Receipt and Invoice (Ocean)

Functional Group=IO

Purpose: This Draft Standard for Trial Use contains the format and establishes the data contents of the Freight Receipt and Invoice (Ocean) Transaction Set (310) for use within the context of an Electronic Data Interchange (EDI) environment. The transaction set can be used to provide ocean bill of lading information. It is sent by ocean carriers to interested parties and can be used as the receipt for the shipment; to substitute for a paper bill of lading where the parties have agreed that a paper bill of lading is not necessary; to allow shipper or forwarder to verify bill of lading information before an original is printed and released; for information purposes, i.e., as a bill of lading copy; by the carrier to convey manifest information to a terminal operator; and as an invoice for freight.

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	B3	Beginning Segment for Carrier's Invoice	M	1			Must use
060	N9	Reference Identification	M	15			Must use
070	V1	Vessel Identification	M	2			Must use
110	C3	Currency	O	1			Used

<u>LOOP ID - N1</u>				<u>3</u>	<u>N1/075L</u>		
075	N1	Name	M	1		N1/075	Must use
090	N3	Address Information	M	2			Must use
100	N4	Geographic Location	M	1			Must use

<u>LOOP ID - R4</u>				<u>20</u>			
180	R4	Port or Terminal	M	1			Must use
190	DTM	Date/Time Reference	M	15			Must use
230	L5	Description, Marks and Numbers	O	1			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>		
020	N7	Equipment Details	M	1			Must use
<u>LOOP ID - L1</u>					<u>20</u>		
070	L1	Rate and Charges	O	1			Used
<u>LOOP ID - L0</u>					<u>120</u>		
150	L0	Line Item - Quantity and Weight	O	1			Used
160	L5	Description, Marks and Numbers	O	999			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	L3	Total Weight and Charges	M	1			Must use
<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

Notes:

- 1/075L The N1 Loop is used only to convey entity information relevant to the debtor or for a party other than the shipper or consignee.
- 1/075 The N1 Loop is used only to convey entity information relevant to the debtor or for a party other than the shipper or consignee.

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						
All valid standard codes are used. (Total Codes: 38)						
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						
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						
Code List Summary (Total Codes: 38, Included: 1)						
Code Name						
ZZ Mutually Defined						
ISA08	I07	Interchange Receiver ID	M	AN	15/15	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>
		<p>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</p> <p>User Note 1: <i>PROD: RBTWTMC</i> <i>TEST: RBTWTMCTEST</i></p>				
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
		<p>Description: Code to identify the agency responsible for the control standard used by the message that is enclosed by the interchange header and trailer</p> <p>All valid standard codes are used. (Total Codes: 1)</p>				
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)				
		<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
		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)				
		<u>Code</u>	<u>Name</u>			
		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)				
		<u>Code</u>	<u>Name</u>			
		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 element separator and the segment terminator				
		User Note 1: <i>Preferred character: ></i>				

<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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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

IO Ocean Shipment Billing Details (310, 312, 980)

GS02	142	Application Sender's Code	M	AN	2/15	Must use
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Description: Code identifying party sending transmission; codes agreed to by trading partners

GS03	124	Application Receiver's Code	M	AN	2/15	Must use
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Description: Code identifying party receiving transmission; codes agreed to by trading partners

User Note 1:

PROD: RBTWTMC

TEST: RBTWTMCTEST

GS04	373	Date	M	DT	8/8	Must use
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Description: Date expressed as CCYYMMDD

GS05	337	Time	M	TM	4/8	Must use
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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
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Description: Assigned number originated and maintained by the sender

GS07	455	Responsible Agency Code	M	ID	1/2	Must use
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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
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Description: Code indicating the version, release, subrelease, and industry identifier of the EDI standard being used, including the GS and GE segments; if code in DE455 in GS segment is X, then in DE 480 positions 1-3 are the version number; positions 4-6 are the release and subrelease, level of the version; and positions 7-12 are the industry or trade

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
		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.

Comments:

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

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

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

Code Name

310 Freight Receipt and Invoice (Ocean)

ST02	329	Transaction Set Control Number	M	AN	4/9	Must use
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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).

B3 Beginning Segment for Carrier's Invoice

Pos: 020	Max: 1
Heading - Mandatory	
Loop: N/A	Elements: 13

User Option (Usage): Must use

Purpose: To transmit basic data relating to the carrier's invoice

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>
B301	147	Shipment Qualifier	O	ID	1/1	Used
		Description: Code defining relationship of this shipment with respect to other shipments given to the carrier at the same time				
		All valid standard codes are used. (Total Codes: 35)				
B302	76	Invoice Number	M	AN	1/22	Must use
		Description: Identifying number assigned by issuer				
B303	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)				
		User Note 1: TMC load number (N9*AG from 304) if available, otherwise booking number				
B304	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: 3)				
		<u>Code</u> <u>Name</u>				
		CC Collect				
		PP Prepaid (by Seller)				
		TP Third Party Pay				
B305	188	Weight Unit Code	O	ID	1/1	Used
		Description: Code specifying the weight unit				
		All valid standard codes are used. (Total Codes: 8)				
B306	373	Invoice Date	M	DT	8/8	Must use
		Description: Date expressed as CCYYMMDD				
B307	193	Net Amount Due	M	N2	1/12	Must use
		Description: Total charges to be paid by the receiver of this transaction set expressed in the standard monetary denomination for the currency specified				
B308	202	Correction Indicator	O	ID	2/2	Used
		Description: Code used to indicate that the transaction set contains information which corrects previous information				
		Code List Summary (Total Codes: 36, Included: 2)				
		<u>Code</u> <u>Name</u>				
		BD Supplemental Invoice				
		CO Correction				

B309	32	Delivery Date	M	DT	8/8	Must use
		Description: Date for delivery of cargo to final consignee or to next mode expressed in format CCYYMMDD				
B310	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: 2)				
		Code Name				
		011	Shipped			
		035	Delivered			
B311	140	Standard Carrier Alpha Code	M	ID	2/4	Must use
		Description: Standard Carrier Alpha Code				
B313	375	Tariff Service Code	O	ID	2/2	Used
		Description: Code specifying the types of services for rating purposes				
		All valid standard codes are used. (Total Codes: 79)				
B314	335	Transportation Terms Code	O	ID	3/3	Used
		Description: Code identifying the trade terms which apply to the shipment transportation responsibility				
		All valid standard codes are used. (Total Codes: 25)				

Syntax Rules:

1. P0910 - If either B309 or B310 is present, then the other is required.

Semantics:

1. B306 is the billing date.
2. On collect freight bills the data in B309 will be the actual delivery date. For the shipments invoiced prior to delivery, the B309 will be the estimated date of delivery.
3. If B314 is used, B304 will indicate the party or parties responsible for payment of the transportation terms identified in B314.

N9 Reference Identification

Pos: 060	Max: 15
Heading - Mandatory	
Loop: N/A	Elements: 2

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: 5)

Code Name

AW	Air Waybill Number
BM	Bill of Lading Number
BN	Booking Number
CR	Customer Reference Number
SI	Shipper's Identifying Number for Shipment (SID)

N902	127	Reference Identification	X	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.

V1 Vessel Identification

Pos: 070	Max: 2
Heading - Mandatory	
Loop: N/A	Elements: 2

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>
V102	182	Vessel Name	M	AN	2/28	Must use
		Description: Name of ship as documented in "Lloyd's Register of Ships"				
V104	55	Flight/Voyage Number	M	AN	2/10	Must use
		Description: Identifying designator for the particular flight or voyage on which the cargo travels				

C3 Currency

Pos: 110	Max: 1
Heading - Optional	
Loop: N/A	Elements: 1

User Option (Usage): Used

Purpose: To specify the currency being used 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>
C301	100	Currency Code	M	ID	3/3	Must use

Description: Code (Standard ISO) for country in whose currency the charges are specified

Semantics:

1. C301 is the billing currency.
2. C303 is the payment currency.
3. C304 is the rated currency.

Comments:

1. Currency is implied by the code for the country in whose currency the monetary amounts are specified.

Loop Name

Pos: 075	Repeat: 3
Mandatory	
Loop: N1	Elements: N/A

User Option (Usage): Must use

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

Loop Summary:

<u>Pos</u>	<u>Id</u>	<u>Segment Name</u>	<u>Req</u>	<u>Max Use</u>	<u>Repeat</u>	<u>Usage</u>
075	N1	Name	M	1		Must use
090	N3	Address Information	M	2		Must use
100	N4	Geographic Location	M	1		Must use

N1 Name

Pos: 075	Max: 1
Heading - Mandatory	
Loop: N1	Elements: 2

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

Code List Summary (Total Codes: 1312, Included: 4)

Code Name

BT	Bill-to-Party
CN	Consignee
PR	Payer
SH	Shipper

N102	93	Name	M	AN	1/60	Must use
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Description: Free-form name

Syntax Rules:

1. R0203 - At least one of N102 or N103 is required.

N3 Address Information

Pos: 090	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: 100	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	M	AN	2/30	Must use
		Description: Free-form text for city name				
N402	156	State or Province Code	O	ID	2/2	Recommended
		Description: Code (Standard State/Province) as defined by appropriate government agency				
N403	116	Postal Code	O	ID	3/15	Recommended
		Description: Code defining international postal zone code excluding punctuation and blanks (zip code for United States)				
N404	26	Country Code	M	ID	2/3	Must use
		Description: Code identifying the country				

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.

Loop Port or Terminal

Pos: 180	Repeat: 20
Optional	
Loop: R4	Elements: N/A

User Option (Usage): Used

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

Loop Summary:

<u>Pos</u>	<u>Id</u>	<u>Segment Name</u>	<u>Req</u>	<u>Max Use</u>	<u>Repeat</u>	<u>Usage</u>
180	R4	Port or Terminal	M	1		Must use
190	DTM	Date/Time Reference	M	15		Must use

R4 Port or Terminal

Pos: 180	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						
Code List Summary (Total Codes: 30, Included: 4)						
Code Name						
D Port of Discharge						
E Place of Delivery						
L Port of Loading						
R Place of Receipt						
R402	309	Location Qualifier	X	ID	1/2	Must use
Description: Code identifying type of location						
Code List Summary (Total Codes: 172, Included: 1)						
Code Name						
UN United Nations Location Code (UNLOCODE)						
R403	310	Location Identifier	X	AN	1/30	Must use
Description: Code which identifies a specific location						
R404	114	Port Name	O	AN	2/24	Must use
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						
R405	26	Country Code	O	ID	2/3	Must use
Description: Code identifying the country						
R408	156	State or Provincial Code	O	ID	2/2	Recommended
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.

DTM Date/Time Reference

Pos: 190	Max: 15
Heading - Mandatory	
Loop: R4	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
Description: Code specifying type of date or time, or both date and time						
Code List Summary (Total Codes: 1112, Included: 2)						
Code Name						
139 Estimated						
140 Actual						
DTM02	373	Date	M	DT	8/8	Must use
Description: Date expressed as CCYYMMDD						
DTM03	337	Time	X	TM	4/8	Recommended
Description: Time expressed in 24-hour clock time as follows: HHMM, or HHMMSS, or HHMMSSD, or HHMMSSDD, where H = hours (00-23), M = minutes (00-59), S = integer seconds (00-59) and DD = decimal seconds; decimal seconds are expressed as follows: D = tenths (0-9) and DD = hundredths (00-99)						

Syntax Rules:

1. R020305 - At least one of DTM02, DTM03 or DTM05 is required.

L5 Description, Marks and Numbers

Pos: 230	Max: 1
Heading - Optional	
Loop: N/A	Elements: 3

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				
L502	79	Lading Description	O	AN	1/50	Used
		Description: Description of an item as required for rating and billing purposes				
L503	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.

Comments:

1. L502 may be used to send quantity information as part of the product description.

Loop Assigned Number

Pos: 010	Repeat: 999
Mandatory	
Loop: LX	Elements: N/A

User Option (Usage): Must use

Purpose: To reference a line number in a transaction set

Loop Summary:

<u>Pos</u>	<u>Id</u>	<u>Segment Name</u>	<u>Req</u>	<u>Max Use</u>	<u>Repeat</u>	<u>Usage</u>
010	LX	Assigned Number	M	1		Must use
020		Loop N7	M		999	Must use
150		Loop L0	O		120	Used

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

User Note 1:

A LX loop should be created per container. All L1 segments within this (LX) loop should pertain to this container.

Loop Equipment Details

Pos: 020	Repeat: 999
Mandatory	
Loop: N7	Elements: N/A

User Option (Usage): Must use

Purpose: To identify the equipment

Loop Summary:

<u>Pos</u>	<u>Id</u>	<u>Segment Name</u>	<u>Req</u>	<u>Max Use</u>	<u>Repeat</u>	<u>Usage</u>
020	N7	Equipment Details	M	1		Must use
070		Loop L1	O		20	Used

N7 Equipment Details

Pos: 020	Max: 1
Detail - Mandatory	
Loop: N7	Elements: 3

User Option (Usage): Must use

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	M	AN	1/4	Must use
		Description: Prefix or alphabetic part of an equipment unit's identifying number				
N702	207	Equipment Number	M	AN	1/10	Must use
		Description: Sequencing or serial part of an equipment unit's identifying number (pure numeric form for equipment number is preferred)				
N722	24	Equipment Type	M	ID	4/4	Must use

Description: Code identifying equipment type

User Note 1: 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

Loop Rate and Charges

Pos: 070	Repeat: 20
Optional	
Loop: L1	Elements: N/A

User Option (Usage): Used

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

Loop Summary:

<u>Pos</u>	<u>Id</u>	<u>Segment Name</u>	<u>Req</u>	<u>Max Use</u>	<u>Repeat</u>	<u>Usage</u>
070	L1	Rate and Charges	O	1		Used

L1 Rate and Charges

Pos: 070	Max: 1
Detail - Optional	
Loop: L1	Elements: 6

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>
L101	213	Lading Line Item Number	M	N0	1/3	Must use
		Description: Sequential line number for a lading item				
L102	60	Freight Rate	M	R	1/9	Must use
		Description: Rate that applies to the specific commodity				
L103	122	Rate/Value Qualifier	M	ID	2/2	Must use

Description: Code qualifying how to extend charges or interpret value

Code List Summary (Total Codes: 163, Included: 21)

Code Name

BL Bill of Lading Declared Value
 CM Per Cubic Meter
 CO Cost per Unit
 CW Per Hundred Weight
 FC Flat Charge
 FF Percent Of Tariff Rate
 FR Flat Rate
 KG Per Kilograms
 KP Per Kilometer
 LF Per Loaded 436L Pallet
 PA Per Container
 PD Per Day
 PM Per Mile
 PP Per Piece
 PR Per Hour
 PW Percentage of Charges
 RB Rate per Hundred
 SP Per Stop
 ST Per Short Ton
 VM Volume
 WM Weight or Measurement

L104	58	Charge	M	N2	1/12	Must use
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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	M	ID	3/3	Must use
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Description: Code identifying type of special charge or allowance

Code List Summary (Total Codes: 1077, Included: 11)**Code Name**

360 Export Customs Clearance
 400 Freight
 BSC Bunker Surcharge
 CCE Import Customs Clearance Charges
 DEL Delivery Charge
 DTH THC (Terminal Handling Charge) - Import
 DTY Duty
 HHB Handling
 OTH THC (Terminal Handling Charge) - Export
 PUC Pick-up Charge
 SEC Security Surcharge

L112 276 **Special Charge Description** M AN 2/25 Must use

Description: Identification of special charge; this data element is used whenever an applicable code cannot be found in data element 150

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.

User Note 1:

Lists "container-level" charges not already accounted for in "shipment-level" charges (summary-level L1).

Loop Line Item - Quantity and Weight

Pos: 150	Repeat: 120
Optional	
Loop: L0	Elements: N/A

User Option (Usage): Used

Purpose: To specify quantity, weight, volume, and type of service for a line item including applicable "quantity/rate-as" data

Loop Summary:

<u>Pos</u>	<u>Id</u>	<u>Segment Name</u>	<u>Req</u>	<u>Max Use</u>	<u>Repeat</u>	<u>Usage</u>
150	L0	Line Item - Quantity and Weight	O	1		Used
160	L5	Description, Marks and Numbers	O	999		Used

L0 Line Item - Quantity and Weight

Pos: 150	Max: 1
Detail - Optional	
Loop: L0	Elements: 8

User Option (Usage): Used

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	M	N0	1/3	Must use
		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	Recommended
		Description: Value of volumetric measure				
L007	184	Volume Unit Qualifier	X	ID	1/1	Recommended
		Description: Code identifying the volume unit				
		Code List Summary (Total Codes: 16, Included: 1)				
		<u>Code</u>	<u>Name</u>			
		X	Cubic Meters			
L008	80	Lading Quantity	M	N0	1/7	Must use
		Description: Number of units (pieces) of the lading commodity				
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: 4)				
		<u>Code</u>	<u>Name</u>			
		BOX	Box			
		CTN	Carton			
		PCS	Pieces			
		PKG	Package			
L011	188	Weight Unit Code	M	ID	1/1	Must use
		Description: Code specifying the weight unit				
		Code List Summary (Total Codes: 8, Included: 1)				

<u>Code</u>	<u>Name</u>
K	Kilograms

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.

Semantics:

1. L008 is the number of handling units of the line item tendered to the carrier.

L5 Description, Marks and Numbers

Pos: 160	Max: 999
Detail - Optional	
Loop: L0	Elements: 2

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	M	N0	1/3	Must use
Description: Sequential line number for a lading item						
L502	79	Lading Description	M	AN	1/50	Must use
Description: Description of an item as required for rating and billing purposes						

L3 Total Weight and Charges

Pos: 010	Max: 1
Summary - Mandatory	
Loop: N/A	Elements: 9

User Option (Usage): Must use

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	M	R	1/10	Must use
		Description: Numeric value of weight				
L302	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			
L303	60	Freight Rate	X	R	1/9	Used
		Description: Rate that applies to the specific commodity				
L304	122	Rate/Value Qualifier	X	ID	2/2	Used
		Description: Code qualifying how to extend charges or interpret value				
L305	58	Charge	M	N2	1/12	Must use
		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				
		User Note 1: <i>Sum of all instances of L104 within invoice.</i>				
L309	183	Volume	X	R	1/8	Used
		Description: Value of volumetric measure				
L310	184	Volume Unit Qualifier	X	ID	1/1	Used
		Description: Code identifying the volume unit				
		Code List Summary (Total Codes: 16, Included: 1)				
		<u>Code</u>	<u>Name</u>			
		X	Cubic Meters			
L311	80	Lading Quantity	M	N0	1/7	Must use
		Description: Number of units (pieces) of the lading commodity				
L312	188	Weight Unit Code	M	ID	1/1	Must use
		Description: Code specifying the weight unit				
		Code List Summary (Total Codes: 8, Included: 1)				
		<u>Code</u>	<u>Name</u>			
		K	Kilograms			

Syntax Rules:

1. P0102 - If either L301 or L302 is present, then the other is required.

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

Semantics:

1. L305 is the total charges.

Loop Rate and Charges

Pos: 030	Repeat: 20
Optional	
Loop: L1	Elements: N/A

User Option (Usage): Used

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

Loop Summary:

<u>Pos</u>	<u>Id</u>	<u>Segment Name</u>	<u>Req</u>	<u>Max Use</u>	<u>Repeat</u>	<u>Usage</u>
030	L1	Rate and Charges	O	1		Used

L1 Rate and Charges

Pos: 030	Max: 1
Summary - Optional	
Loop: L1	Elements: 6

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>
L101	213	Lading Line Item Number	M	N0	1/3	Must use

Description: Sequential line number for a lading item

L102	60	Freight Rate	M	R	1/9	Must use
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Description: Rate that applies to the specific commodity

L103	122	Rate/Value Qualifier	M	ID	2/2	Must use
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Description: Code qualifying how to extend charges or interpret value

Code List Summary (Total Codes: 163, Included: 21)

Code Name

BL Bill of Lading Declared Value
 CM Per Cubic Meter
 CO Cost per Unit
 CW Per Hundred Weight
 FC Flat Charge
 FF Percent Of Tariff Rate
 FR Flat Rate
 KG Per Kilograms
 KP Per Kilometer
 LF Per Loaded 436L Pallet
 PA Per Container
 PD Per Day
 PM Per Mile
 PP Per Piece
 PR Per Hour
 PW Percentage of Charges
 RB Rate per Hundred
 SP Per Stop
 ST Per Short Ton
 VM Volume
 WM Weight or Measurement

L104	58	Charge	M	N2	1/12	Must use
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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	M	ID	3/3	Must use
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Description: Code identifying type of special charge or allowance

Code List Summary (Total Codes: 1077, Included: 11)**Code Name**

360 Export Customs Clearance
 400 Freight
 BSC Bunker Surcharge
 CCE Import Customs Clearance Charges
 DEL Delivery Charge
 DTH THC (Terminal Handling Charge) - Import
 DTY Duty
 HHB Handling
 OTH THC (Terminal Handling Charge) - Export
 PUC Pick-up Charge
 SEC Special Equipment Charge

L112 276 **Special Charge Description** O AN 2/25 Used

Description: Identification of special charge; this data element is used whenever an applicable code cannot be found in data element 150

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.

User Note 1:

Lists "shipment-level" charges not already accounted for in "container-level" (N7) charges.

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				

Comments:

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

ISA*00* *00* *ZZ*FRTFORWARDER *ZZ*RBTWMCCTEST
*210611*1815*U*00401*000000028*1*T*>
GS*IO*FRTFORWARDER*RBTWMCCTEST*20210611*1815*28*X*004010
ST*310*280001
B3*B*0008675309*349689422*PP**20210510*134400**20210510*035*ABCD**PP*ZZZ
N9*SI*4800210824
N9*BM*ABDC2666037480
N9*CR*FMC 1127
N9*BN*380170978A
V1**ABCD Mike**108D
C3*USD
N1*SH*Honeywell International Inc.
N3*115 Tabor Road (Route 53)
N4*Morris Plains*NJ*07950*US
N1*BT*Honeywell International Inc.
N3*115 Tabor Road (Route 53)
N4*Morris Plains*NJ*07950*US
N1*CN*Honeywell Fluorine Products Europe BV
N3*Stationsplein Zuid-west 961
N4*Schiphol**1117 CE*NL
R4*R*UN*USHOU*HOUSTON*US***TX
DTM*140*20210424*1130
R4*L*UN*USHOU*HOUSTON*US***TX
DTM*140*20210424*1130
R4*D*UN*NLRTM*ROTTERDAM*NL
DTM*139*20210510*0600
R4>E*UN*NLRTM*ROTTERDAM*NL
DTM*139*20210510*0600
LX*1
N7*ABCD*6987485*****CN40
L1*1*1186*PA*118600****400****OCEAN FREIGHT
L1*2*50*PA*5000****DTY****DUTY
L1*3*108*PA*10800****BSC****FUEL COST RECOVERY
LX*2
N7*ABCD*6987466*****CN40
L1*4*1186*PA*118600****400****OCEAN FREIGHT
L1*5*50*PA*5000****DTY****DUTY
L1*6*108*PA*10800****BSC****FUEL COST RECOVERY
L3*9162*G***348800*****6*K
L1*7*500*FC*50000****SEC****SECURITY
L1*8*300*FC*30000****HHB****HANDLING
SE*39*280001
GE*1*28
IEA*1*000000028