C.H. ROBINSON

310 Ocean Freight Receipt and Invoice

X12/V4010: 310 Ocean Freight Receipt and Invoice

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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:

Pos	Id	Segment Name	Req	Max Use	Repeat	Notes	Usage
	ISA	Interchange Control Header	M	1			Must use
	GS	Functional Group Header	M	1			Must use

Heading:

Pos	Id	Segment Name	Req	Max Use	Repeat	Notes	Usage
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
110	C3	Currency	M	1			Must use
LOOP ID - N1					**3**	**N1/075L**	
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
LOOP ID - R4					**20**		
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:

Pos	Id	Segment Name	Req	Max Use	Repeat	Notes	Usage
LOOP ID - LX					**999**		
010	LX	Assigned Number	M	1			Must use
LOOP ID - N7					**999**		
020	N7	Equipment Details	M	1			Must use
LOOP ID - L1					**20**		
070	L1	Rate and Charges	O	1			Used
LOOP ID - L0					**120**		
150	L0	Line Item - Quantity and Weight	O	1			Used
160	L5	Description, Marks and Numbers	O	999			Used

Summary:

Pos	Id	Segment Name	Req	Max Use	Repeat	Notes	Usage
010	L3	Total Weight and Charges	M	1			Must use
LOOP ID - L1					**20**		
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:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
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)

Ref	Id	Element Name	Req	Type	Min/Max	Usage
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)

Ref	Id	Element Name	Req	Type	Min/Max	Usage
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)

Ref	Id	Element Name	Req	Type	Min/Max	Usage
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)

Ref	Id	Element Name	Req	Type	Min/Max	Usage
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)

Ref	Id	Element Name	Req	Type	Min/Max	Usage
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

Ref	Id	Element Name	Req	Type	Min/Max	Usage
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

Ref	Id	Element Name	Req	Type	Min/Max	Usage
ISA08	I07	**Interchange Receiver ID**	M	AN	15/15	Must use

Ref	Id	Element Name	Req	Type	Min/Max	Usage

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

User Note 1:
PROD: RBTWRMS
TEST: RBTWRMSTEST

| 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
All valid standard codes are used. (Total Codes: 1)

| 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 element separator and the segment terminator

User Note 1: *Prefered character: >*

Ref	Id	Element Name	Req	Type	Min/Max	Usage

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:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
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)

Ref	Id	Element Name	Req	Type	Min/Max	Usage
GS02	142	**Application Sender's Code**	M	AN	2/15	Must use

Description: Code identifying party sending transmission; codes agreed to by trading partners

Ref	Id	Element Name	Req	Type	Min/Max	Usage
GS03	124	**Application Receiver's Code**	M	AN	2/15	Must use

Description: Code identifying party receiving transmission; codes agreed to by trading partners

User Note 1:
PROD: RBTWRMS
TEST: RBTWRMSTEST

Ref	Id	Element Name	Req	Type	Min/Max	Usage
GS04	373	**Date**	M	DT	8/8	Must use

Description: Date expressed as CCYYMMDD

Ref	Id	Element Name	Req	Type	Min/Max	Usage
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)

Ref	Id	Element Name	Req	Type	Min/Max	Usage
GS06	28	**Group Control Number**	M	N0	1/9	Must use

Description: Assigned number originated and maintained by the sender

Ref	Id	Element Name	Req	Type	Min/Max	Usage
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

Ref	Id	Element Name	Req	Type	Min/Max	Usage
GS08	480	**Version / Release / Industry Identifier Code**	M	AN	1/12	Must use

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

Ref	Id	Element Name	Req	Type	Min/Max	Usage
		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)

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

Semantics:

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

Comments:

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

ST Transaction Set Header

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

User Option (Usage): Must use

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

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
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)

Ref	Id	Element Name	Req	Type	Min/Max	Usage
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).

B3 Beginning Segment for Carrier's Invoice

Pos: 020	**Max: 1**
Heading - Mandatory	
Loop: N/A	**Elements: 9**

User Option (Usage): Must use

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

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
B302	76	**Invoice Number**	M	AN	1/22	Must use

Description: Identifying number assigned by issuer

Ref	Id	Element Name	Req	Type	Min/Max	Usage
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: *CHR load number (N9*AG from 304) if available, otherwise booking number*

Ref	Id	Element Name	Req	Type	Min/Max	Usage
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)

Code	Name
CC	Collect
PP	Prepaid (by Seller)
TP	Third Party Pay

Ref	Id	Element Name	Req	Type	Min/Max	Usage
B306	373	**Invoice Date**	M	DT	8/8	Must use

Description: Date expressed as CCYYMMDD

Ref	Id	Element Name	Req	Type	Min/Max	Usage
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

Ref	Id	Element Name	Req	Type	Min/Max	Usage
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)

Code	Name
BD	Supplemental Invoice
CO	Correction

Ref	Id	Element Name	Req	Type	Min/Max	Usage
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

User Note 1: *Date corresponds with qualifier sent in B310.*

Ref	Id	Element Name	Req	Type	Min/Max	Usage
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

Syntax Rules:

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

Semantics:

1.

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:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
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

User Note 1:

Required when Air Shipment.

BM	Bill of Lading Number

User Note 1:

Required - House Bill of Lading (HBL)

BN	Booking Number

User Note 1:

Required for Ocean Shipment - Steamship Line Booking Number.

CN	Carrier's Reference Number (PRO/Invoice)

User Note 1:

Required - Forwarder Tracking Number.

MB	Master Bill of Lading

User Note 1:

Required - Master Bill of Lading (MBOL)

Ref	Id	Element Name	Req	Type	Min/Max	Usage
N902	127	**Reference Identification**	X	AN	1/30	Must use

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.

C3 Currency

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

User Option (Usage): Must use

Purpose: To specify the currency being used in the transaction set

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
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.

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

<table>
<tr><td>Pos: 075</td><td>Max: 1</td></tr>
<tr><td colspan="2">Heading - Mandatory</td></tr>
<tr><td>Loop: N1</td><td>Elements: 2</td></tr>
</table>

User Option (Usage): Must use

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

Element Summary:

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

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

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

Code	Name
BT	Bill-to-Party

User Note 1:

Required

Code	Name
PR	Payer
SF	Ship From

User Note 1:

Required: Shipment Origin - Place of Receipt.

Code	Name
ST	Ship To

User Note 1:

Required: Shipment Destination - Place of Delivery.

Ref	Id	Element Name	Req	Type	Min/Max	Usage
N102	93	**Name**	M	AN	1/60	Must use

Description: Free-form name

N3 Address Information

<table>
<tr><td>Pos: 090</td><td>Max: 2</td></tr>
<tr><td colspan="2">Heading - Mandatory</td></tr>
<tr><td>Loop: N1</td><td>Elements: 2</td></tr>
</table>

User Option (Usage): Must use
Purpose: To specify the location of the named party

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
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

<table>
<tr><td>Pos: 100</td><td>Max: 1</td></tr>
<tr><td colspan="2" align="center">Heading - Mandatory</td></tr>
<tr><td>Loop: N1</td><td>Elements: 4</td></tr>
</table>

User Option (Usage): Must use

Purpose: To specify the geographic place of the named party

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
N401	19	**City Name**	M	AN	2/30	Must use

Description: Free-form text for city name

Ref	Id	Element Name	Req	Type	Min/Max	Usage
N402	156	**State or Province Code**	O	ID	2/2	Recommended

Description: Code (Standard State/Province) as defined by appropriate government agency

Ref	Id	Element Name	Req	Type	Min/Max	Usage
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)

Ref	Id	Element Name	Req	Type	Min/Max	Usage
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:

Pos	Id	Segment Name	Req	Max Use	Repeat	Usage
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:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
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

Ref	Id	Element Name	Req	Type	Min/Max	Usage
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)

Ref	Id	Element Name	Req	Type	Min/Max	Usage
R403	310	**Location Identifier**	X	AN	1/30	Must use

Description: Code which identifies a specific location

Ref	Id	Element Name	Req	Type	Min/Max	Usage
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

Ref	Id	Element Name	Req	Type	Min/Max	Usage
R405	26	**Country Code**	O	ID	2/3	Must use

Description: Code identifying the country

Ref	Id	Element Name	Req	Type	Min/Max	Usage
R408	156	**State or Province 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:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
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

Ref	Id	Element Name	Req	Type	Min/Max	Usage
DTM02	373	**Date**	M	DT	8/8	Must use

Description: Date expressed as CCYYMMDD

Ref	Id	Element Name	Req	Type	Min/Max	Usage
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:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
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:

Pos	Id	Segment Name	Req	Max Use	Repeat	Usage
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:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
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:

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

N7 Equipment Details

User Option (Usage): Must use

Purpose: To identify the equipment

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
N701	206	**Equipment Initial**	M	AN	1/4	Must use

Description: Prefix or alphabetic part of an equipment unit's identifying number

Ref	Id	Element Name	Req	Type	Min/Max	Usage
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)

Ref	Id	Element Name	Req	Type	Min/Max	Usage
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:

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

L1 Rate and Charges

<table>
<tr><td>Pos: 070</td><td>Max: 1</td></tr>
<tr><td colspan="2">Detail - Optional</td></tr>
<tr><td>Loop: L1</td><td>Elements: 6</td></tr>
</table>

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:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
L101	213	**Lading Line Item Number**	M	N0	1/3	Must use

Description: Sequential line number for a lading item

Ref	Id	Element Name	Req	Type	Min/Max	Usage
L102	60	**Freight Rate**	M	R	1/9	Must use

Description: Rate that applies to the specific commodity

Ref	Id	Element Name	Req	Type	Min/Max	Usage
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

Ref	Id	Element Name	Req	Type	Min/Max	Usage
L104	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

Ref	Id	Element Name	Req	Type	Min/Max	Usage
L108	150	**Special Charge or Allowance Code**	M	ID	3/3	Must use

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	Securtiy 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:

Pos	Id	Segment Name	Req	Max Use	Repeat	Usage
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:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
L001	213	**Lading Line Item Number**	M	N0	1/3	Must use

Description: Sequential line number for a lading item

Ref	Id	Element Name	Req	Type	Min/Max	Usage
L004	81	**Weight**	M	R	1/10	Must use

Description: Numeric value of weight

Ref	Id	Element Name	Req	Type	Min/Max	Usage
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)

Code	Name
G	Gross Weight

Ref	Id	Element Name	Req	Type	Min/Max	Usage
L006	183	**Volume**	X	R	1/8	Recommended

Description: Value of volumetric measure

Ref	Id	Element Name	Req	Type	Min/Max	Usage
L007	184	**Volume Unit Qualifier**	X	ID	1/1	Recommended

Description: Code identifying the volume unit

Code List Summary (Total Codes: 16, Included: 1)

Code	Name
X	Cubic Meters

Ref	Id	Element Name	Req	Type	Min/Max	Usage
L008	80	**Lading Quantity**	M	N0	1/7	Must use

Description: Number of units (pieces) of the lading commodity

Ref	Id	Element Name	Req	Type	Min/Max	Usage
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)

Code	Name
BOX	Box
CTN	Carton
PCS	Pieces
PKG	Package

Ref	Id	Element Name	Req	Type	Min/Max	Usage
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)

Code	**Name**
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:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
L501	213	**Lading Line Item Number**	M	N0	1/3	Must use

Description: Sequential line number for a lading item

Ref	Id	Element Name	Req	Type	Min/Max	Usage
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:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
L301	81	**Weight**	M	R	1/10	Must use

Description: Numeric value of weight

Ref	Id	Element Name	Req	Type	Min/Max	Usage
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)

Code	Name
G	Gross Weight

Ref	Id	Element Name	Req	Type	Min/Max	Usage
L303	60	**Freight Rate**	X	R	1/9	Used

Description: Rate that applies to the specific commodity

Ref	Id	Element Name	Req	Type	Min/Max	Usage
L304	122	**Rate/Value Qualifier**	X	ID	2/2	Used

Description: Code qualifying how to extend charges or interpret value

Ref	Id	Element Name	Req	Type	Min/Max	Usage
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: *Sum of all instances of L104 within invoice.*

Ref	Id	Element Name	Req	Type	Min/Max	Usage
L309	183	**Volume**	X	R	1/8	Used

Description: Value of volumetric measure

Ref	Id	Element Name	Req	Type	Min/Max	Usage
L310	184	**Volume Unit Qualifier**	X	ID	1/1	Used

Description: Code identifying the volume unit

Code List Summary (Total Codes: 16, Included: 1)

Code	Name
X	Cubic Meters

Ref	Id	Element Name	Req	Type	Min/Max	Usage
L311	80	**Lading Quantity**	M	N0	1/7	Must use

Description: Number of units (pieces) of the lading commodity

Ref	Id	Element Name	Req	Type	Min/Max	Usage
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)

Code	Name
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:

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

L1 Rate and Charges

Pos: 030	**Max: 1**
Summary - Optional	
Loop: L1	**Elements: 7**

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:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
L101	213	**Lading Line Item Number**	M	N0	1/3	Must use

Description: Sequential line number for a lading item

Ref	Id	Element Name	Req	Type	Min/Max	Usage
L102	60	**Freight Rate**	M	R	1/9	Must use

Description: Rate that applies to the specific commodity

Ref	Id	Element Name	Req	Type	Min/Max	Usage
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

Ref	Id	Element Name	Req	Type	Min/Max	Usage
L104	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

Ref	Id	Element Name	Req	Type	Min/Max	Usage
L108	150	**Special Charge or Allowance Code**	M	ID	3/3	Must use

Description: Code identifying type of special charge or allowance

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

<u>**Code**</u> <u>**Name**</u>

360 Export Customs Clearance

400 Freight

BSC Bunker Surcharge

CCE Import Customrs 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

L115	122	**Rate/Value Qualifier**	X	ID	2/2	Used

Description: Code qualifying how to extend charges or interpret value

Code List Summary (Total Codes: 164, Included: 1)

<u>**Code**</u> <u>**Name**</u>

ZZ Mutally Defined

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.

Semantics:

1.

User Note 1:

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

SE Transaction Set Trailer

<table>
<tr><td>Pos: 080</td><td>Max: 1</td></tr>
<tr><td colspan="2">Summary - Mandatory</td></tr>
<tr><td>Loop: N/A</td><td>Elements: 2</td></tr>
</table>

User Option (Usage): Must use

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

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
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

Ref	Id	Element Name	Req	Type	Min/Max	Usage
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.