

# **310 Ocean Freight Receipt and Invoice**

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

**Version: 1.6 Final**

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# Notes

v1.6 Changes:

Added additional notes & removed unnecessary items.

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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
110	C3	Currency	M	1			Must use

<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
<b><u>LOOP ID - L1</u></b>					<b><u>20</u></b>		
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	<b>Authorization Information Qualifier</b>	M	ID	2/2	Must use
<b>Description:</b> Code to identify the type of information in the Authorization Information						
<b>Code List Summary</b> (Total Codes: 7, Included: 1)						
<b>Code Name</b>						
00 No Authorization Information Present (No Meaningful Information in I02)						
ISA02	I02	<b>Authorization Information</b>	M	AN	10/10	Must use
<b>Description:</b> 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	<b>Security Information Qualifier</b>	M	ID	2/2	Must use
<b>Description:</b> Code to identify the type of information in the Security Information						
<b>Code List Summary</b> (Total Codes: 2, Included: 1)						
<b>Code Name</b>						
00 No Security Information Present (No Meaningful Information in I04)						
ISA04	I04	<b>Security Information</b>	M	AN	10/10	Must use
<b>Description:</b> 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	<b>Interchange ID Qualifier</b>	M	ID	2/2	Must use
<b>Description:</b> Qualifier to designate the system/method of code structure used to designate the sender or receiver ID element being qualified						
<b>All valid standard codes are used. (Total Codes: 38)</b>						
ISA06	I06	<b>Interchange Sender ID</b>	M	AN	15/15	Must use
<b>Description:</b> 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	<b>Interchange ID Qualifier</b>	M	ID	2/2	Must use
<b>Description:</b> Qualifier to designate the system/method of code structure used to designate the sender or receiver ID element being qualified						
<b>Code List Summary</b> (Total Codes: 38, Included: 1)						
<b>Code Name</b>						
ZZ Mutually Defined						
ISA08	I07	<b>Interchange Receiver ID</b>	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><b>Description:</b> 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><b>User Note 1:</b> <i>PROD: RBTWTMC TEST: RBTWTMCTEST</i></p>				
ISA09	I08	<b>Interchange Date</b>	M	DT	6/6	Must use
		<b>Description:</b> Date of the interchange				
ISA10	I09	<b>Interchange Time</b>	M	TM	4/4	Must use
		<b>Description:</b> Time of the interchange				
ISA11	I10	<b>Interchange Control Standards Identifier</b>	M	ID	1/1	Must use
		<p><b>Description:</b> 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><b>All valid standard codes are used. (Total Codes: 1)</b></p>				
ISA12	I11	<b>Interchange Control Version Number</b>	M	ID	5/5	Must use
		<b>Description:</b> Code specifying the version number of the interchange control segments				
		<b>Code List Summary</b> (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	<b>Interchange Control Number</b>	M	N0	9/9	Must use
		<b>Description:</b> A control number assigned by the interchange sender				
ISA14	I13	<b>Acknowledgment Requested</b>	M	ID	1/1	Must use
		<b>Description:</b> Code sent by the sender to request an interchange acknowledgment (TA1)				
		<b>Code List Summary</b> (Total Codes: 2, Included: 1)				
		<u>Code</u> <u>Name</u>				
		1 Interchange Acknowledgment Requested				
ISA15	I14	<b>Usage Indicator</b>	M	ID	1/1	Must use
		<b>Description:</b> Code to indicate whether data enclosed by this interchange envelope is test, production or information				
		<b>Code List Summary</b> (Total Codes: 3, Included: 2)				
		<u>Code</u> <u>Name</u>				
		P Production Data				
		T Test Data				
ISA16	I15	<b>Component Element Separator</b>	M		1/1	Must use
		<b>Description:</b> 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				
		<b>User Note 1:</b> <i>Preferred character: &gt;</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	<b>Functional Identifier Code</b>	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	<b>Application Sender's Code</b>	M	AN	2/15	Must use
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**Description:** Code identifying party sending transmission; codes agreed to by trading partners

GS03	124	<b>Application Receiver's Code</b>	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	<b>Date</b>	M	DT	8/8	Must use
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**Description:** Date expressed as CCYYMMDD

GS05	337	<b>Time</b>	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	<b>Group Control Number</b>	M	N0	1/9	Must use
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**Description:** Assigned number originated and maintained by the sender

GS07	455	<b>Responsible Agency Code</b>	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	<b>Version / Release / Industry Identifier Code</b>	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				
		<b>Code List Summary</b> (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	<b>Transaction Set Identifier Code</b>	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	<b>Transaction Set Control Number</b>	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: 9

**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>
B302	76	<b>Invoice Number</b>	M	AN	1/22	Must use
		<b>Description:</b> Identifying number assigned by issuer				
B303	145	<b>Shipment Identification Number</b>	M	AN	1/30	Must use
		<b>Description:</b> 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)				
		<b>User Note 1:</b> TMC load number (N9*AG from 304) if available, otherwise booking number				
B304	146	<b>Shipment Method of Payment</b>	M	ID	2/2	Must use
		<b>Description:</b> Code identifying payment terms for transportation charges				
		<b>Code List Summary</b> (Total Codes: 28, Included: 3)				
		<b>Code</b>	<b>Name</b>			
		CC	Collect			
		PP	Prepaid (by Seller)			
		TP	Third Party Pay			
B306	373	<b>Invoice Date</b>	M	DT	8/8	Must use
		<b>Description:</b> Date expressed as CCYYMMDD				
B307	193	<b>Net Amount Due</b>	M	N2	1/12	Must use
		<b>Description:</b> Total charges to be paid by the receiver of this transaction set expressed in the standard monetary denomination for the currency specified				
B308	202	<b>Correction Indicator</b>	O	ID	2/2	Used
		<b>Description:</b> Code used to indicate that the transaction set contains information which corrects previous information				
		<b>Code List Summary</b> (Total Codes: 36, Included: 2)				
		<b>Code</b>	<b>Name</b>			
		BD	Supplemental Invoice			
		CO	Correction			
B309	32	<b>Delivery Date</b>	M	DT	8/8	Must use
		<b>Description:</b> Date for delivery of cargo to final consignee or to next mode expressed in format CCYYMMDD				
		<b>User Note 1:</b> Date corresponds with qualifier sent in B310.				
B310	374	<b>Date/Time Qualifier</b>	M	ID	3/3	Must use
		<b>Description:</b> 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	<b>Standard Carrier Alpha Code</b>	M	ID	2/4	Must use
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**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:

<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

**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)*

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.

# 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:

<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.

## Comments:

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

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# 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

PR Payer

SF Ship From

**User Note 1:**

*Shipment Origin - Place of Receipt.*

ST Ship To

**User Note 1:**

*Shipment Destination - Place of Delivery.*

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



# 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	<b>Address Information</b>	M	AN	1/55	Must use
		<b>Description:</b> Address information				
N302	166	<b>Address Information</b>	O	AN	1/55	Used
		<b>Description:</b> 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	<b>City Name</b>	M	AN	2/30	Must use
		<b>Description:</b> Free-form text for city name				
N402	156	<b>State or Province Code</b>	O	ID	2/2	Recommended
		<b>Description:</b> Code (Standard State/Province) as defined by appropriate government agency				
N403	116	<b>Postal Code</b>	O	ID	3/15	Recommended
		<b>Description:</b> Code defining international postal zone code excluding punctuation and blanks (zip code for United States)				
N404	26	<b>Country Code</b>	M	ID	2/3	Must use
		<b>Description:</b> 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	<b>Port or Terminal Function Code</b>	M	ID	1/1	Must use
<b>Description:</b> Code defining function performed at the port or terminal with respect to a shipment						
<b>Code List Summary</b> (Total Codes: 30, Included: 4)						
<b>Code Name</b>						
D Port of Discharge						
E Place of Delivery						
L Port of Loading						
R Place of Receipt						
R402	309	<b>Location Qualifier</b>	X	ID	1/2	Must use
<b>Description:</b> Code identifying type of location						
<b>Code List Summary</b> (Total Codes: 172, Included: 1)						
<b>Code Name</b>						
UN United Nations Location Code (UNLOCODE)						
R403	310	<b>Location Identifier</b>	X	AN	1/30	Must use
<b>Description:</b> Code which identifies a specific location						
R404	114	<b>Port Name</b>	O	AN	2/24	Must use
<b>Description:</b> 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	<b>Country Code</b>	O	ID	2/3	Must use
<b>Description:</b> Code identifying the country						
R408	156	<b>State or Provincial Code</b>	O	ID	2/2	Recommended
<b>Description:</b> 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	<b>Date/Time Qualifier</b>	M	ID	3/3	Must use
<b>Description:</b> Code specifying type of date or time, or both date and time						
<b>Code List Summary</b> (Total Codes: 1112, Included: 2)						
<b>Code Name</b>						
139 Estimated						
140 Actual						
DTM02	373	<b>Date</b>	M	DT	8/8	Must use
<b>Description:</b> Date expressed as CCYYMMDD						
DTM03	337	<b>Time</b>	X	TM	4/8	Recommended
<b>Description:</b> 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	<b>Lading Line Item Number</b>	O	N0	1/3	Used
		<b>Description:</b> Sequential line number for a lading item				
L502	79	<b>Lading Description</b>	O	AN	1/50	Used
		<b>Description:</b> Description of an item as required for rating and billing purposes				
L503	22	<b>Commodity Code</b>	X	AN	1/30	Used
		<b>Description:</b> 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	<b>Equipment Initial</b>	M	AN	1/4	Must use
		<b>Description:</b> Prefix or alphabetic part of an equipment unit's identifying number				
N702	207	<b>Equipment Number</b>	M	AN	1/10	Must use
		<b>Description:</b> Sequencing or serial part of an equipment unit's identifying number (pure numeric form for equipment number is preferred)				
N722	24	<b>Equipment Type</b>	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	<b>Lading Line Item Number</b>	M	N0	1/3	Must use
		<b>Description:</b> Sequential line number for a lading item				
L102	60	<b>Freight Rate</b>	M	R	1/9	Must use
		<b>Description:</b> Rate that applies to the specific commodity				
L103	122	<b>Rate/Value Qualifier</b>	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	<b>Charge</b>	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	<b>Special Charge or Allowance Code</b>	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	<b>Lading Line Item Number</b>	M	N0	1/3	Must use
		<b>Description:</b> Sequential line number for a lading item				
L004	81	<b>Weight</b>	M	R	1/10	Must use
		<b>Description:</b> Numeric value of weight				
L005	187	<b>Weight Qualifier</b>	M	ID	1/2	Must use
		<b>Description:</b> Code defining the type of weight				
		<b>Code List Summary</b> (Total Codes: 51, Included: 1)				
		<u>Code</u>	<u>Name</u>			
		G	Gross Weight			
L006	183	<b>Volume</b>	X	R	1/8	Recommended
		<b>Description:</b> Value of volumetric measure				
L007	184	<b>Volume Unit Qualifier</b>	X	ID	1/1	Recommended
		<b>Description:</b> Code identifying the volume unit				
		<b>Code List Summary</b> (Total Codes: 16, Included: 1)				
		<u>Code</u>	<u>Name</u>			
		X	Cubic Meters			
L008	80	<b>Lading Quantity</b>	M	N0	1/7	Must use
		<b>Description:</b> Number of units (pieces) of the lading commodity				
L009	211	<b>Packaging Form Code</b>	M	ID	3/3	Must use
		<b>Description:</b> Code for packaging form of the lading quantity				
		<b>Code List Summary</b> (Total Codes: 134, Included: 4)				
		<u>Code</u>	<u>Name</u>			
		BOX	Box			
		CTN	Carton			
		PCS	Pieces			
		PKG	Package			
L011	188	<b>Weight Unit Code</b>	M	ID	1/1	Must use
		<b>Description:</b> Code specifying the weight unit				
		<b>Code List Summary</b> (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
<b>Description:</b> Sequential line number for a lading item						
L502	79	Lading Description	M	AN	1/50	Must use
<b>Description:</b> 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	<b>Weight</b>	M	R	1/10	Must use
		<b>Description:</b> Numeric value of weight				
L302	187	<b>Weight Qualifier</b>	M	ID	1/2	Must use
		<b>Description:</b> Code defining the type of weight				
		<b>Code List Summary</b> (Total Codes: 51, Included: 1)				
		<u>Code</u>	<u>Name</u>			
		G	Gross Weight			
L303	60	<b>Freight Rate</b>	X	R	1/9	Used
		<b>Description:</b> Rate that applies to the specific commodity				
L304	122	<b>Rate/Value Qualifier</b>	X	ID	2/2	Used
		<b>Description:</b> Code qualifying how to extend charges or interpret value				
L305	58	<b>Charge</b>	M	N2	1/12	Must use
		<b>Description:</b> 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				
		<b>User Note 1:</b> <i>Sum of all instances of L104 within invoice.</i>				
L309	183	<b>Volume</b>	X	R	1/8	Used
		<b>Description:</b> Value of volumetric measure				
L310	184	<b>Volume Unit Qualifier</b>	X	ID	1/1	Used
		<b>Description:</b> Code identifying the volume unit				
		<b>Code List Summary</b> (Total Codes: 16, Included: 1)				
		<u>Code</u>	<u>Name</u>			
		X	Cubic Meters			
L311	80	<b>Lading Quantity</b>	M	N0	1/7	Must use
		<b>Description:</b> Number of units (pieces) of the lading commodity				
L312	188	<b>Weight Unit Code</b>	M	ID	1/1	Must use
		<b>Description:</b> Code specifying the weight unit				
		<b>Code List Summary</b> (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: 8

**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

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

L114 74 **Declared Value** X N2 2/12 Used

**Description:** Monetary assigned value expressed in the standard monetary denomination for the currency specified

**User Note 1:** *Required - TMC Load Number.*

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)**Code Name**

ZZ Mutually 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

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	<b>Number of Included Segments</b>	M	N0	1/10	Must use
		<b>Description:</b> Total number of segments included in a transaction set including ST and SE segments				
SE02	329	<b>Transaction Set Control Number</b>	M	AN	4/9	Must use
		<b>Description:</b> 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.