

# TMC

A DIVISION OF  
C.H. ROBINSON

## **110 Air Freight Details and Invoice**

X12/V4010/110 : 110 Air Freight Details and Invoice

**Version: 1.6 Final**

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# Notes

v1.6 Changes:

Added additional notes & removed unnecessary items.

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# 110 Air Freight Details and Invoice

## Functional Group=IA

**Purpose:** This Draft Standard for Trial Use contains the format and establishes the data contents of the Air Freight Details and Invoice Transaction Set (110) for use within the context of an Electronic Data Interchange (EDI) environment. The transaction set can be used to provide a customer with an air invoice for transportation and other charges related to shipments, including Original Invoices, Past Due Billings, Balance Due Bills and Revisions.

### 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.

### 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
030	B3A	Invoice Type	O	1			Used
050	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
110	N9	Reference Identification	O	10			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>9999</u>		
010	LX	Assigned Number	M	1			Must use
090	R1	Route Information (Air)	M	1			Must use
<u>LOOP ID - L5</u>					<u>4</u>		
150	L5	Description, Marks and Numbers	M	1			Must use
160	L0	Line Item - Quantity and Weight	M	1			Must use
163	L4	Measurement	O	4			Used
165	L10	Weight	M	4			Must use
167	SL1	Tariff Reference	O	1			Used
<u>LOOP ID - L1</u>					<u>30</u>		
175	L1	Rate and Charges	M	1			Must use

**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>
015	L3	Total Weight and Charges	M	1			Must use
045	SE	Transaction Set Trailer	M	1			Must use

# ISA Interchange Control Header

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

**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				
<p><b>Description:</b> Code to identify the type of information in the Authorization Information  <b>All valid standard codes are used. (Total Codes: 7)</b></p>										
ISA02	I02	<b>Authorization Information</b>	M	AN	10/10	Must use				
<p><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)</p>										
ISA03	I03	<b>Security Information Qualifier</b>	M	ID	2/2	Must use				
<p><b>Description:</b> Code to identify the type of information in the Security Information  <b>All valid standard codes are used. (Total Codes: 2)</b></p>										
ISA04	I04	<b>Security Information</b>	M	AN	10/10	Must use				
<p><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)</p>										
ISA05	I05	<b>Interchange ID Qualifier</b>	M	ID	2/2	Must use				
<p><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></p>										
ISA06	I06	<b>Interchange Sender ID</b>	M	AN	15/15	Must use				
<p><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</p>										
ISA07	I05	<b>Interchange ID Qualifier</b>	M	ID	2/2	Must use				
<p><b>Description:</b> Qualifier to designate the system/method of code structure used to designate the sender or receiver ID element being qualified</p> <p><b>Code List Summary (Total Codes: 38, Included: 1)</b></p> <table border="1"> <thead> <tr> <th><u>Code</u></th> <th><u>Name</u></th> </tr> </thead> <tbody> <tr> <td>ZZ</td> <td>Mutually Defined</td> </tr> </tbody> </table>							<u>Code</u>	<u>Name</u>	ZZ	Mutually Defined
<u>Code</u>	<u>Name</u>									
ZZ	Mutually Defined									
ISA08	I07	<b>Interchange Receiver ID</b>	M	AN	15/15	Must use				
<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>										

**User Note 1:**  
*PROD: RBTWTMC*

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
<i>TEST: RBTWTMCTEST</i>						
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
<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						
<b>All valid standard codes are used. (Total Codes: 1)</b>						
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)						
<b>Code Name</b>						
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)						
<b>Code Name</b>						
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>All valid standard codes are used. (Total Codes: 3)</b>						
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

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

**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**

IA Air Freight Details and Invoice (110, 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

**All valid standard codes are used. (Total Codes: 2)**

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 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:

<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**

110 Air Freight Details and Invoice

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: 12

**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	Invoice Number	M	AN	1/22	Must use
<b>Description:</b> Identifying number assigned by issuer						
<b>User Note 1:</b> <i>Pro Number</i>						
B303	145	Shipment Identification Number	O	AN	1/30	Used
<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> <i>TMC load number (N9*AG from 304)</i>						
B304	146	Shipment Method of Payment	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 Name</b>						
CC Collect						
PP Prepaid (by Seller)						
TP Third Party Pay						
B306	373	Date	M	DT	8/8	Must use
<b>Description:</b> Date expressed as CCYYMMDD						
<b>User Note 1:</b> <i>Invoice date</i>						
B307	193	Net Amount Due	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	Correction Indicator	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 Name</b>						
BD Balance Due Billing						
CO Correction						
B309	32	Delivery Date	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> <i>Date corresponds with qualifier sent in B310.</i>						
B310	374	Date/Time Qualifier	M	ID	3/3	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>
		<b>Description:</b> Code specifying type of date or time, or both date and time				
		<b>Code List Summary</b> (Total Codes: 1112, Included: 1)				
		<b>Code Name</b>				
		035 Delivered				
B311	140	<b>Standard Carrier Alpha Code</b>	M	ID	2/4	Must use
		<b>Description:</b> Standard Carrier Alpha Code				
B312	373	<b>Date</b>	O	DT	8/8	Used
		<b>Description:</b> Date expressed as CCYYMMDD				
B313	375	<b>Tariff Service Code</b>	O	ID	2/2	Used
		<b>Description:</b> Code specifying the types of services for rating purposes				
		<b>All valid standard codes are used. (Total Codes: 79)</b>				
B314	335	<b>Transportation Terms Code</b>	O	ID	3/3	Used
		<b>Description:</b> Code identifying the trade terms which apply to the shipment transportation responsibility				
		<b>All valid standard codes are used. (Total Codes: 25)</b>				

### 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.

# B3A Invoice Type

Pos: 030	Max: 1
Heading - Optional	
Loop: N/A	Elements: 2

**User Option (Usage):** Used

**Purpose:** To indicate type of invoice and number of shipments

## Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
B3A01	640	<b>Transaction Type Code</b>	M	ID	2/2	Must use

**Description:** Code specifying the type of transaction

**Code List Summary** (Total Codes: 446, Included: 1)

**Code Name**

21 Air Import Invoice

B3A02	21	<b>Number of Shipments</b>	O	N0	1/5	Used
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**Description:** Total number of shipments on this transaction

## Comments:

1. B3A02 is the number of shipments invoiced.

## C3 Currency

Pos: 050	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.
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
110	N9	Reference Identification	O	10		Used

# N1 Name

<b>Pos: 075</b>	<b>Max: 1</b>
<b>Heading - Mandatory</b>	
<b>Loop: N1</b>	<b>Elements: 2</b>

**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	<b>Entity Identifier Code</b>	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)

<u>Code</u>	<u>Name</u>
BT	Bill-to-Party
PR	Payer
SF	Ship From
ST	Ship To

N102	93	<b>Name</b>	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	<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.

# N9 Reference Identification

Pos: 110	Max: 10
Heading - Optional	
Loop: N1	Elements: 2

**User Option (Usage):** Used

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

## Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
N901	128	Reference Identification Qualifier	M	ID	2/3	Must use

**Description:** Code qualifying the Reference Identification

**Code List Summary** (Total Codes: 1503, Included: 3)

**Code Name**

AW Air Waybill Number

CN Carrier's Reference Number (PRO/Invoice)

MB Master Bill of Lading

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

## Syntax Rules:

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

# Loop Assigned Number

Pos: 010	Repeat: 9999
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
090	R1	Route Information (Air)	M	1		Must use
150		Loop L5	M		4	Must use

# 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

# R1 Route Information (Air)

Pos: 090	Max: 1
Detail - Mandatory	
Loop: LX	Elements: 3

**User Option (Usage):** Must use

**Purpose:** To specify airline and airport routing sequences

## 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>
R103	5	<b>Airport Code</b>	M	ID	3/5	Must use
		<b>Description:</b> Code (IATA) for airport				
R104	4	<b>Air Carrier Code</b>	M	ID	3/3	Must use
		<b>Description:</b> Code (IATA) for the air carrier				
R105	5	<b>Airport Code</b>	M	ID	3/5	Must use
		<b>Description:</b> Code (IATA) for airport				

# Loop Description, Marks and Numbers

Pos: 150	Repeat: 4
Mandatory	
Loop: L5	Elements: N/A

**User Option (Usage):** Must use

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

## 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	L5	Description, Marks and Numbers	M	1		Must use
160	L0	Line Item - Quantity and Weight	M	1		Must use
163	L4	Measurement	O	4		Used
165	L10	Weight	M	4		Must use
167	SL1	Tariff Reference	O	1		Used
175		Loop L1	M		30	Must use

# L5 Description, Marks and Numbers

Pos: 150	Max: 1
Detail - Mandatory	
Loop: L5	Elements: 2

**User Option (Usage):** Must use

**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	NO	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						

## Comments:

1.



# L0 Line Item - Quantity and Weight

Pos: 160	Max: 1
Detail - Mandatory	
Loop: L5	Elements: 8

**User Option (Usage):** Must use

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

## Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
L001	213	<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>			
		B	Billed Weight			
L006	183	<b>Volume</b>	M	R	1/8	Must use
		<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>	X	N0	1/7	Recommended
		<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.

# L4 Measurement

Pos: 163	Max: 4
Detail - Optional	
Loop: L5	Elements: 4

**User Option (Usage):** Used

**Purpose:** To describe physical dimensions and quantities

## 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>
L401	82	<b>Length</b>	M	R	1/8	Must use
		<b>Description:</b> Largest horizontal dimension of an object measured when the object is in the upright position				
L402	189	<b>Width</b>	M	R	1/8	Must use
		<b>Description:</b> Shorter measurement of the two horizontal dimensions measured with the object in the upright position				
L403	65	<b>Height</b>	M	R	1/8	Must use
		<b>Description:</b> Vertical dimension of an object measured when the object is in the upright position				
L404	90	<b>Measurement Unit Qualifier</b>	M	ID	1/1	Must use
		<b>Description:</b> Code specifying the linear dimensional unit				
		<b>All valid standard codes are used. (Total Codes: 4)</b>				

## Semantics:

1. L406 is the Rounding in Pattern for dimensional shipments.

# L10 Weight

Pos: 165	Max: 4
Detail - Mandatory	
Loop: L5	Elements: 3

**User Option (Usage):** Must use

**Purpose:** To transmit weight 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>
L1001	81	<b>Weight</b>	M	R	1/10	Must use
		<b>Description:</b> Numeric value of weight				
L1002	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: 2)				
		<b><u>Code</u> <u>Name</u></b>				
		B Billed Weight				
		G Gross Weight				
L1003	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: 4)				
		<b><u>Code</u> <u>Name</u></b>				
		E Metric Ton				
		K Kilograms				
		L Pounds				
		O Ounces				

# SL1 Tariff Reference

Pos: 167	Max: 1
Detail - Optional	
Loop: L5	Elements: 4

**User Option (Usage):** Used

**Purpose:** To reference details of the tariff used to arrive at applicable rates or charges for customer-requested service

## 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>
SL101	284	<b>Service Level Code</b>	M	ID	2/2	Must use

**Description:** Code indicating the level of transportation service or the billing service offered by the transportation carrier

**Code List Summary** (Total Codes: 66, Included: 6)

### Code Name

3D	Three Day Service
AC	Air Cargo
IE	Expedited Service - Worldwide
SA	Same Day
SC	Second Day Air
ST	Standard Class

SL102	171	<b>Tariff Number</b>	O	AN	1/7	Used
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**Description:** Standard tariff number for the tariff which governs the rates applied to the commodity item(s)

SL103	22	<b>Commodity Code</b>	X	AN	1/30	Used
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**Description:** Code describing a commodity or group of commodities

SL104	320	<b>Scale</b>	X	AN	1/10	Used
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**Description:** A carrier-maintained reference used to further identify a schedule of rates within a tariff

## Syntax Rules:

1. R0304 - At least one of SL103 or SL104 is required.

## Semantics:

1. SL101 is the service requested by the customer.
2. SL105 is the effective date.
3. SL106 is the service provided by the carrier.

## Comments:

1. Scale and commodity codes are proprietary codes maintained by the carrier.

# Loop Rate and Charges

Pos: 175	Repeat: 30
Mandatory	
Loop: L1	Elements: N/A

**User Option (Usage):** Must use

**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>
175	L1	Rate and Charges	M	1		Must use

# L1 Rate and Charges

Pos: 175	Max: 1
Detail - Mandatory	
Loop: L1	Elements: 9

**User Option (Usage):** Must use

**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>	X	R	1/9	Recommended
		<b>Description:</b> Rate that applies to the specific commodity				
L104	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				
L105	191	<b>Advances</b>	X	N2	1/9	Used
		<b>Description:</b> Incidental charges occurring during transportation which are not generally considered to be freight charges (examples - stop charges, diversion and reconsignment, icing) 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
		<b>Description:</b> Code identifying type of special charge or allowance				
		<b>Code List Summary</b> (Total Codes: 1077, Included: 11)				
		<b><u>Code</u></b>	<b><u>Name</u></b>			
		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			
L111	16	<b>Charge Method of Payment</b>	O	ID	1/1	Used
		<b>Description:</b> Code defining method of payment				
L112	276	<b>Special Charge Description</b>	M	AN	2/25	Must use
		<b>Description:</b> Identification of special charge; this data element is used whenever an applicable code cannot be found in data element 150				
L114	74	<b>Declared Value</b>	X	N2	2/12	Used
		<b>Description:</b> Monetary assigned value expressed in the standard monetary denomination				

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>	
		for the currency specified					
		<b>User Note 1:</b> <i>Required - TMC Load Number</i>					
L115	122	<b>Rate/Value Qualifier</b>	X	ID	2/2	Used	
		<b>Description:</b> Code qualifying how to extend charges or interpret value					
		<b>Code List Summary</b> (Total Codes: 164, Included: 1)					
		<b>Code</b>		<b>Name</b>			
		ZZ		Mutually Defined			

### Syntax Rules:

1. R040506 - At least one of L104, L105 or L106 is required.
2. P1415 - If either L114 or L115 is present, then the other is required.



# L3 Total Weight and Charges

Pos: 015	Max: 1
Summary - Mandatory	
Loop: N/A	Elements: 7

**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)				
		<b>Code</b>	<b>Name</b>			
		B	Billed Weight			
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				
L309	183	<b>Volume</b>	X	R	1/8	Recommended
		<b>Description:</b> Value of volumetric measure				
L310	184	<b>Volume Unit Qualifier</b>	X	ID	1/1	Recommended
		<b>Description:</b> Code identifying the volume unit				
L311	80	<b>Lading Quantity</b>	M	N0	1/7	Used
		<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)				
		<b>Code</b>	<b>Name</b>			
		K	Kilograms			

## Syntax Rules:

1. P0102 - If either L301 or L302 is present, then the other is required.
2. C1201 - If L312 is present, then L301 is required.

## Semantics:

1. L305 is the total charges.

# SE Transaction Set Trailer

Pos: 045	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.