214 Transportation Carrier Shipment Status Message

X12/V4010/214: 214 Transportation Carrier Shipment Status Message

Version: 1.6 Final

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Notes:	**Added case count and pallet count in AT8**

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214 Transportation Carrier Shipment Status Message

Functional Group=QM

Purpose: This Draft Standard for Trial Use contains the format and establishes the data contents of the Transportation Carrier Shipment Status Message Transaction Set (214) for use within the context of an Electronic Data Interchange (EDI) environment. This transaction set can be used by a transportation carrier to provide shippers, consignees, and their agents with the status of shipments in terms of dates, times, locations, route, identifying numbers, and conveyance.

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
010	ST	Transaction Set Header	M	1			Used
020	B10	Beginning Segment for Transportation Carrier Shipment Status Message	M	1			Used
030	L11	Business Instructions and Reference Number	O	300			Must use
035	MAN	Marks and Numbers	O	1		C0/035	Used
LOOP ID - 0100					**10**		
050	N1	Name	O	1			Used
070	N3	Address Information	O	2			Used
080	N4	Geographic Location	O	1			Used
LOOP ID - 0200					**1**		
130	LX	Assigned Number	O	1			Must use
LOOP ID - 0205					**1**		
140	AT7	Shipment Status Details	O	1			Must use
143	MS1	Equipment, Shipment, or Real Property Location	O	1			Must use
146	MS2	Equipment or Container Owner and Type	O	1			Used
150	L11	Business Instructions and Reference Number	O	1			Must use
150	L11	Business Instructions and Reference Number	O	2			Recommended
150	L11	Business Instructions and Reference Number	O	2			Recommended
200	AT8	Shipment Weight, Packaging and Quantity Data	O	10			Used
610	SE	Transaction Set Trailer	M	1			Used
	GE	Functional Group Trailer	M	1			Must use
	IEA	Interchange Control Trailer	M	1			Must use

Comments:

0/035   This is required if you are shipping a temperature controlled load for C.H. Robinson or when C.H. Robinson is the Shippers Agent for a customer.

User Note 1:

1. Load Types

This EDI 214 Load Status Message implementation guide pertains to Truck Load shipments from truck load carriers only.

2. Functional Acknowledgments.

By Default, C.H. Robinson sends 997's. Please notify CH Robinson if you do not wish to receive 997 functional acknowledgements for the 214's.

3. Errors

C.H. Robinson will not be responsible for correcting data sent to us. C.H. Robinson will send 997 functional acknowledgements, indicating the EDI syntax acceptance status of the received 214.

4. C.H. Robinson Inbound 214 Structure

- Only one status per 214
- A single 214 may contain 1 LX Loop with 1 AT7 Loop.

5. Inbound 214 Load Status Events

- Pickup or Delivery Event - Actual Dates and Times applicable to a pickup or delivery location of a shipment.

X3 - Arrived at Pickup Location
AF - Departed Pickup Location
X1 - Arrived at Delivery Location
CD - Departed Delivery Location (delivery complete)

- Dispatched Truck Event - This is the actual date and time of a truck at a specified location en route to the initial pickup

P1 - Location at Time of Dispatch

- Check Call Event 'In Transit' - This is the actual date and time of a truck at a specified location en route to a pickup or a delivery. This location will not be a pickup or a delivery location.

X6- En Route to Location

- See code list for additional codes.

6. Timing

- C.H. Robinson would like to recieve In-Transit updates every 15 minutes

- C.H. Robinson needs to receive 214 status updates as close to the actual event as possible. Ideally within 15 minutes of the event.

7. Envelope ID's

Testing:

ISA Qualifier = 02

ISA ID = RBTWTEST
GS ID = RBTWTEST

Production:

ISA Qualifier = 02
ISA ID = RBTW
GS ID = RBTW

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
All valid standard codes are used. (Total Codes: 7)

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

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

CodeList Summary (Total Codes: 38, Included: 1)

Code	Name
02	SCAC (Standard Carrier Alpha Code)

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

Description: Identification code published by the receiver of the data; When sending, it is used by the sender as their sending ID, thus other parties sending to them will use this as a receiving ID to route data to them

User Note 1:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
		Production ID for TL = RBTW				
		Test ID for TL = RBTWTEST				
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

CodeList Summary (Total Codes: 14, Included: 2)

Code	Name
00401	Draft Standards for Trial Use Approved for Publication by ASC X12 Procedures Review Board through October 1997
00402	Draft Standards for Trial Use Approved for Publication by ASC X12 Procedures Review Board through October 1998

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

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
All valid standard codes are used. (Total Codes: 3)

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

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

CodeList Summary (Total Codes: 240, Included: 1)

Code	Name
QM	Transportation Carrier Shipment Status Message (214)

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:

Production ID for TL = RBTW

Test ID for TL = RBTWTEST

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

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

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 association identifiers (optionally assigned by user); if code in DE455 in GS segment is T,

Ref	**Id**	**Element Name**	**Req**	**Type**	**Min/Max**	**Usage**
		then other formats are allowed				

CodeList 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
Not Defined - Mandatory
Loop: N/A   Elements: 2

User Option (Usage): Used

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	Used

Description: Code uniquely identifying a Transaction Set

CodeList Summary (Total Codes: 298, Included: 1)

Code	Name
214	Transportation Carrier Shipment Status Message

Ref	Id	Element Name	Req	Type	Min/Max	Usage
ST02	329	**Transaction Set Control Number**	M	AN	4/9	Used

Description: Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set

B10 Beginning Segment for Transportation Carrier Shipment Status Message

Pos: 020   Max: 1
Not Defined - Mandatory
Loop: N/A   Elements: 3

User Option (Usage): Used

Purpose: To transmit identifying numbers and other basic data relating to the transaction set

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
B1001	127	**Reference Identification**	M	AN	1/30	Used

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

User Note 1: *Carrier Assigned Pro Number*

Ref	Id	Element Name	Req	Type	Min/Max	Usage
B1002	145	**Shipment Identification Number**	O	AN	1/30	Used

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: *C.H. Robinson Load Number*

Ref	Id	Element Name	Req	Type	Min/Max	Usage
B1003	140	**Standard Carrier Alpha Code**	M	ID	2/4	Used

Description: Standard Carrier Alpha Code

Syntax Rules:

1. E0105 - Only one of B1001 or B1005 may be present.
2. P0506 - If either B1005 or B1006 is present, then the other is required.
3. R0106 - At least one of B1001 or B1006 is required.

L11 Business Instructions and Reference Number

<div style="border:1px solid black">

Pos: 030   Max: 300

Not Defined - Optional

Loop: N/A   Elements: 2

</div>

User Option (Usage): Must use

Purpose: To specify instructions in this business relationship or a reference number

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
L1101	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

User Note 1: *C.H. Robinson Load Number - AG Qualifier (Should match the Load Number in the B10_02)*

Ref	Id	Element Name	Req	Type	Min/Max	Usage
L1102	128	**Reference Identification Qualifier**	X	ID	2/3	Must use

Description: Code qualifying the Reference Identification

CodeList Summary (Total Codes: 1503, Included: 1)

Code Name

AG   Agent's Shipment Number

Syntax Rules:

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

User Note 1:

MANDATORY

AG - Qualifer is MANDATORY on all 214's.

MAN   Marks and Numbers

<table>
<tr><td>Pos: 035</td><td>Max: 1</td></tr>
<tr><td colspan="2">Not Defined - Optional</td></tr>
<tr><td>Loop: N/A</td><td>Elements: 3</td></tr>
</table>

User Option (Usage): Used

Purpose: To indicate identifying marks and numbers for shipping containers

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
MAN01	88	**Marks and Numbers Qualifier**	M	ID	1/2	Must use

Description: Code specifying the application or source of Marks and Numbers (87)

CodeList Summary (Total Codes: 20, Included: 1)

Code	Name
ZZ	Mutually Defined

Ref	Id	Element Name	Req	Type	Min/Max	Usage
MAN02	87	**Marks and Numbers**	M	AN	1/48	Must use

Description: Marks and numbers used to identify a shipment or parts of a shipment

User Note 1: *Please send the recorded temperture at time of stop here*

Ref	Id	Element Name	Req	Type	Min/Max	Usage
MAN03	87	**Marks and Numbers**	O	AN	1/48	Must use

Description: Marks and numbers used to identify a shipment or parts of a shipment

User Note 1:
If temperature is in fahrenheit please denote with "F".
If temperature is in celsius please denote with "C".

Syntax Rules:

1. C0605 - If MAN06 is present, then MAN05 is required.
2. P0405 - If either MAN04 or MAN05 is present, then the other is required.

User Note 1:

The MAN segment will be used for FSMA and Temp controlled shipments. Please send the recorded temperature value at each stop.

Example: MAN*ZZ*24.9*F

Loop Name

Pos: 050   Repeat: 10
Optional
Loop: 0100   Elements: N/A

User Option (Usage): Used

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

Loop Summary:

Pos	Id	Segment Name	Req	Max Use	Repeat	Usage
050	N1	Name	O	1		Used
070	N3	Address Information	O	2		Used
080	N4	Geographic Location	O	1		Used

N1 Name

User Option (Usage): Used

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	Used

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

CodeList Summary (Total Codes: 1312, Included: 2)

Code	Name
CN	Consignee
SH	Shipper

Ref	Id	Element Name	Req	Type	Min/Max	Usage
N102	93	**Name**	X	AN	1/60	Used

Description: Free-form name

Ref	Id	Element Name	Req	Type	Min/Max	Usage
N103	66	**Identification Code Qualifier**	X	ID	1/2	Not recommended

Description: Code designating the system/method of code structure used for Identification Code (67)
All valid standard codes are used. (Total Codes: 215)

Ref	Id	Element Name	Req	Type	Min/Max	Usage
N104	67	**Identification Code**	X	AN	2/80	Not recommended

Description: Code identifying a party or other code

Syntax Rules:

1. P0304 - If either N103 or N104 is present, then the other is required.
2. R0203 - At least one of N102 or N103 is required.

N3   Address Information

Pos: 070   Max: 2
Not Defined - Optional
Loop: 0100   Elements: 2

User Option (Usage): Used
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	Used
		Description: Address information				
N302	166	**Address Information**	O	AN	1/55	Used
		Description: Address information				

N4 Geographic Location

Pos: 080   **Max: 1**
Not Defined - Optional
Loop: 0100   Elements: 3

User Option (Usage): Used

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**	O	AN	2/30	Used

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	Used

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	Used

Description: Code defining international postal zone code excluding punctuation and blanks (zip code for United States)

Syntax Rules:

1. C0605 - If N406 is present, then N405 is required.

Loop Assigned Number

<table>
<tr><td>Pos: 130</td><td>Repeat: 1</td></tr>
<tr><td colspan="2">Mandatory</td></tr>
<tr><td colspan="2">Loop: 0200   Elements: N/A</td></tr>
</table>

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
130	LX	Assigned Number	O	1		Must use
140		Loop 0205	M		1	Must use
150	L11	Business Instructions and Reference Number	O	1		Must use
150	L11	Business Instructions and Reference Number	O	2		Recommended
150	L11	Business Instructions and Reference Number	O	2		Recommended
200	AT8	Shipment Weight, Packaging and Quantity Data	O	10		Used

LX   Assigned Number

Pos: 130   Max: 1
Not Defined - Optional
Loop: 0200   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	Used

> **Description:** Number assigned for differentiation within a transaction set

User Note 1:

Maximum of 1 LX Loop.

If using the L11 segments to send Lat/Long, you do not need to use both formats. Please choose only one.

Loop Shipment Status Details

Pos: 140	Repeat: 1
Mandatory	
Loop: 0205	**Elements: N/A**

User Option (Usage): Must use

Purpose: To specify the status of a shipment, the reason for that status, the date and time of the status and the date and time of any appointments scheduled.

Loop Summary:

Pos	Id	Segment Name	Req	Max Use	Repeat	Usage
140	AT7	Shipment Status Details	O	1		Must use
143	MS1	Equipment, Shipment, or Real Property Location	O	1		Must use
146	MS2	Equipment or Container Owner and Type	O	1		Used

AT7   Shipment Status Details

<table>
<tr><td>Pos: 140</td><td>Max: 1</td></tr>
<tr><td colspan="2">Not Defined - Optional</td></tr>
<tr><td>Loop: 0205</td><td>Elements: 7</td></tr>
</table>

User Option (Usage): Must use

Purpose: To specify the status of a shipment, the reason for that status, the date and time of the status and the date and time of any appointments scheduled.

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
AT701	1650	**Shipment Status Code**	X	ID	2/2	Used

Description: Code indicating the status of a shipment

User Note 1:
Special Notes / Instructions:

- At a minimum C.H. Robinson must receive the X3 & AF for every Pick Up location and X1 & CD for every Delivery location on all shipments. Ideally within 15 minutes of the event.

- C.H. Robinson wants to recieve In-Transit updates every 15 minutes in the form of an X6 status code.

All valid standard codes are used. (Total Codes: 42)

Ref	Id	Element Name	Req	Type	Min/Max	Usage
AT702	1651	**Shipment Status or Appointment Reason Code**	X	ID	2/2	Used

Description: Code indicating the reason a shipment status or appointment reason was transmitted

User Note 1: *NS - Normal Status or any Late Reason Code if necessary*

All valid standard codes are used. (Total Codes: 86)

Ref	Id	Element Name	Req	Type	Min/Max	Usage
AT703	1652	**Shipment Appointment Status Code**	X	ID	2/2	Used

Description: Code indicating the status of an appointment to pick-up or deliver a shipment

CodeList Summary (Total Codes: 9, Included: 2)

Code	Name
AA	Pick-up Appointment Date and/or Time
AB	Delivery Appointment Date and/or Time

Ref	Id	Element Name	Req	Type	Min/Max	Usage
AT704	1651	**Shipment Status or Appointment Reason Code**	X	ID	2/2	Used

Description: Code indicating the reason a shipment status or appointment reason was transmitted

User Note 1: *NA - Normal Appointment or any Late Reason Code if necessary*

All valid standard codes are used. (Total Codes: 86)

Ref	Id	Element Name	Req	Type	Min/Max	Usage
AT705	373	**Status Date**	X	DT	8/8	Must use

Description: Date expressed as CCYYMMDD

Ref	Id	Element Name	Req	Type	Min/Max	Usage
AT706	337	**Status Time**	X	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

Ref	Id	Element Name	Req	Type	Min/Max	Usage
		seconds (00-59) and DD = decimal seconds; decimal seconds are expressed as follows: D = tenths (0-9) and DD = hundredths (00-99)				

User Note 1: *HHMM*

| AT707 | 623 | **Time Code** | X | ID | 2/2 | Used |

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

User Note 1:

The status time represents the local time the status occurred.

CodeList Summary (Total Codes: 51, Included: 1)

Code Name

LT   Local Time

Syntax Rules:

1. C0605 - If AT706 is present, then AT705 is required.
2. C0706 - If AT707 is present, then AT706 is required.
3. E0103 - Only one of AT701 or AT703 may be present.
4. P0102 - If either AT701 or AT702 is present, then the other is required.
5. P0304 - If either AT703 or AT704 is present, then the other is required.

MS1   Equipment, Shipment, or Real Property Location

<div style="float:right; border:1px solid black; padding:5px;">
Pos: 143   Max: 1
Not Defined - Optional
Loop: 0205   Elements: 3
</div>

User Option (Usage): Must use

Purpose: To specify the location of a piece of equipment, a shipment, or real property in terms of city and state or longitude and latitude

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
MS101	19	**City Name**	X	AN	2/30	Must use

Description: Free-form text for city name

User Note 1: *Event Location City*

Ref	Id	Element Name	Req	Type	Min/Max	Usage
MS102	156	**State or Province Code**	X	ID	2/2	Must use

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

User Note 1: *Event Location State*

Ref	Id	Element Name	Req	Type	Min/Max	Usage
MS103	26	**Country Code**	X	ID	2/3	Used

Description: Code identifying the country

User Note 1: *Event Location Country*

Syntax Rules:

1. C0201 - If MS102 is present, then MS101 is required.
2. C0301 - If MS103 is present, then MS101 is required.
3. C0604 - If MS106 is present, then MS104 is required.
4. C0705 - If MS107 is present, then MS105 is required.
5. E0104 - Only one of MS101 or MS104 may be present.
6. P0405 - If either MS104 or MS105 is present, then the other is required.
7. L010203 - If MS101 is present, then at least one of MS102 or MS103 is required.

MS2   Equipment or Container Owner and Type

<div style="border:1px solid black">

Pos: 146   **Max: 1**

Not Defined - Optional

Loop: 0205   **Elements: 4**

</div>

User Option (Usage): Used

Purpose: To specify the owner, the identification number assigned by that owner, and the type of equipment

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
MS201	140	**Standard Carrier Alpha Code**	X	ID	2/4	Used

Description: Standard Carrier Alpha Code

User Note 1: *Carrier's SCAC Code*

Ref	Id	Element Name	Req	Type	Min/Max	Usage
MS202	207	**Equipment Number**	X	AN	1/10	Used

Description: Sequencing or serial part of an equipment unit's identifying number (pure numeric form for equipment number is preferred)

User Note 1: *Trailer Number*

Ref	Id	Element Name	Req	Type	Min/Max	Usage
MS203	40	**Equipment Description Code**	O	ID	2/2	Not used

Description: Code identifying type of equipment used for shipment

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

Ref	Id	Element Name	Req	Type	Min/Max	Usage
MS204	761	**Equipment Number Check Digit**	X	N0	1/1	Not used

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

Syntax Rules:

1. C0402 - If MS204 is present, then MS202 is required.
2. P0102 - If either MS201 or MS202 is present, then the other is required.

L11 Business Instructions and Reference Number

Pos: 150   Max: 1
Not Defined - Optional
Loop: 0200   Elements: 2

User Option (Usage): Must use

Purpose: To specify instructions in this business relationship or a reference number

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
L1101	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

User Note 1: *QN - Stop Number*

| L1102 | 128 | **Reference Identification Qualifier** | X | ID | 2/3 | Must use |

Description: Code qualifying the Reference Identification

CodeList Summary (Total Codes: 1503, Included: 1)

Code Name

QN   Stop Sequence Number

Syntax Rules:

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

User Note 1:

QN - Location Stop Sequence Number is MANDATORY for TRUCKLOAD Carriers.

*The stop number must match the stop sequence number that corresponds to the location on the load. If you receive the load via 204 the location stop sequence number is in the S5_01. C.H. Robinson does **not** accept '99' as the final stop.*

Examples:
*1 **Pick / 1 Drop:** Pick = Stop Seq. # 1 , Drop = Stop Seq. # 2*
*2 **Pick / 1 Drop:** Pick 1 = Stop Seq. # 1, Pick 2 = Stop Seq. # 2, Drop = Stop Seq. # 3*
*1 **Pick / 2 Drop:**   Pick = Stop Seq. # 1, Drop 1 = Stop Seq. # 2, Drop 2 = Stop Seq. # 3*

L11 Business Instructions and Reference Number

<div style="border: 1px solid black;">
Pos: 150   Max: 2
Not Defined - Optional
Loop: 0200   Elements: 3
</div>

User Option (Usage): Recommended

Purpose: To specify instructions in this business relationship or a reference number

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
L1101	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

Ref	Id	Element Name	Req	Type	Min/Max	Usage
L1102	128	**Reference Identification Qualifier**	X	ID	2/3	Must use

Description: Code qualifying the Reference Identification

CodeList Summary (Total Codes: 1503, Included: 2)

Code	Name
LK	Longitude expressed in Degrees, Minutes and Seconds

User Note 1:

Send Longitude in following format: degrees (3 positions), minutes (2 positions), and seconds (2 positions).

Code	Name
LQ	Latitude Expressed in Degrees, Minutes and Seconds

User Note 1:

Send Latitude in following format: degrees (2 positions), minutes (2 positions), and seconds (2 positions).

Ref	Id	Element Name	Req	Type	Min/Max	Usage
L1103	352	**Description**	X	AN	1/80	Used

Description: A free-form description to clarify the related data elements and their content

User Note 1:   *When L11/02 is "LK" . Please define East/West using "E" or "W". When L11/02 is "LQ". Please define North/South using "N" or "S".*

Syntax Rules:

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

User Note 1:

Sending Lat/Long does not replace the requirement for sending city/state in the MS1.

Example LX loop with Lat/Long sent as Degrees, Minutes, Seconds:
LX*1
AT7*X6*NS***20170530*2210*LT
MS1*TEMPE*AZ*US
MS2*ETLZ*530123
L11*2*QN
L11*332531*LK*N
L11*1115624*LQ*W

L11 Business Instructions and Reference Number

Pos: 150   Max: 2
Not Defined - Optional
Loop: 0200   Elements: 2

User Option (Usage): Recommended

Purpose: To specify instructions in this business relationship or a reference number

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
L1101	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

Ref	Id	Element Name	Req	Type	Min/Max	Usage
L1102	128	**Reference Identification Qualifier**	X	ID	2/3	Must use

Description: Code qualifying the Reference Identification

CodeList Summary (Total Codes: 1503, Included: 2)

Code	Name
LH	Longitude Expressed in Seconds

User Note 1:

Used for sending Longitude in decimal format.

Code	Name
LL	Latitude Expressed in Seconds

User Note 1:

Used for sending Latitude in decimal format.

Syntax Rules:

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

User Note 1:

Sending Lat/Long does not replace the requirement for sending city/state in the MS1.

Example LX loop with Lat/Long sent as decimal:
LX*1
AT7*X6*NS***20170530*2210*LT
MS1*TEMPE*AZ*US
MS2*ETLZ*530123
L11*2*QN
L11*33.4255*LL
L11*-111.9400*LH

AT8 Shipment Weight, Packaging and Quantity Data

User Option (Usage): Used

Purpose: To specify shipment details in terms of weight, and quantity of handling units

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
AT801	187	**Weight Qualifier**	X	ID	1/2	Used

Description: Code defining the type of weight
All valid standard codes are used. (Total Codes: 51)

Ref	Id	Element Name	Req	Type	Min/Max	Usage
AT802	188	**Weight Unit Code**	X	ID	1/1	Used

Description: Code specifying the weight unit
All valid standard codes are used. (Total Codes: 8)

Ref	Id	Element Name	Req	Type	Min/Max	Usage
AT803	81	**Weight**	X	R	1/10	Used

Description: Numeric value of weight

Ref	Id	Element Name	Req	Type	Min/Max	Usage
AT804	80	**Lading Quantity**	O	N0	1/7	Used

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

User Note 1:
*Case Count - Total number of cases on the load, including palletized **and** non-palletized.*

Ref	Id	Element Name	Req	Type	Min/Max	Usage
AT805	80	**Lading Quantity**	O	N0	1/7	Used

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

User Note 1:
Pallet Count

Syntax Rules:

1. P0607 - If either AT806 or AT807 is present, then the other is required.
2. P010203 - If either AT801, AT802 or AT803 are present, then the others are required.

SE Transaction Set Trailer

| Pos: 610   Max: 1 |
| Not Defined - Mandatory |
| Loop: N/A   Elements: 2 |

User Option (Usage): Used

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	Used

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	Used

Description: Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set

GE   Functional Group Trailer

Pos:	**Max: 1**
Not Defined - Mandatory	
Loop: N/A	**Elements: 2**

User Option (Usage): Must use

Purpose: To indicate the end of a functional group and to provide control information

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
GE01	97	**Number of Transaction Sets Included**	M	N0	1/6	Must use

Description: Total number of transaction sets included in the functional group or interchange (transmission) group terminated by the trailer containing this data element

Ref	Id	Element Name	Req	Type	Min/Max	Usage
GE02	28	**Group Control Number**	M	N0	1/9	Must use

Description: Assigned number originated and maintained by the sender

Semantics:

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

Comments:

1. The use of identical data interchange control numbers in the associated functional group header and trailer is designed to maximize functional group integrity. The control number is the same as that used in the corresponding header.

IEA Interchange Control Trailer

Pos:	Max: 1
Not Defined - Mandatory	
Loop: N/A	Elements: 2

User Option (Usage): Must use

Purpose: To define the end of an interchange of zero or more functional groups and interchange-related control segments

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max	Usage
IEA01	I16	**Number of Included Functional Groups**	M	N0	1/5	Must use

Description: A count of the number of functional groups included in an interchange

IEA02	I12	**Interchange Control Number**	M	N0	9/9	Must use

Description: A control number assigned by the interchange sender