



C.H. ROBINSON

214 Transportation Carrier Shipment Status Message

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

Version: 1.6 Final

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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:

<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
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 receive 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:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
ISA01	I01	Authorization Information Qualifier	M	ID	2/2	Must use
Description: Code to identify the type of information in the Authorization Information All valid standard codes are used. (Total Codes: 7)						
ISA02	I02	Authorization Information	M	AN	10/10	Must use
Description: Information used for additional identification or authorization of the interchange sender or the data in the interchange; the type of information is set by the Authorization Information Qualifier (I01)						
ISA03	I03	Security Information Qualifier	M	ID	2/2	Must use
Description: Code to identify the type of information in the Security Information All valid standard codes are used. (Total Codes: 2)						
ISA04	I04	Security Information	M	AN	10/10	Must use
Description: This is used for identifying the security information about the interchange sender or the data in the interchange; the type of information is set by the Security Information Qualifier (I03)						
ISA05	I05	Interchange ID Qualifier	M	ID	2/2	Must use
Description: Qualifier to designate the system/method of code structure used to designate the sender or receiver ID element being qualified All valid standard codes are used. (Total Codes: 38)						
ISA06	I06	Interchange Sender ID	M	AN	15/15	Must use
Description: Identification code published by the sender for other parties to use as the receiver ID to route data to them; the sender always codes this value in the sender ID element						
ISA07	I05	Interchange ID Qualifier	M	ID	2/2	Must use
Description: Qualifier to designate the system/method of code structure used to designate the sender or receiver ID element being qualified CodeList Summary (Total Codes: 38, Included: 1)						
Code Name						
02 SCAC (Standard Carrier Alpha Code)						
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:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
		<i>Production ID for TL = RBTW</i>				
		<i>Test ID for TL = RBTWTEST</i>				
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:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
GS01	479	Functional Identifier Code	M	ID	2/2	Must use

Description: Code identifying a group of application related transaction sets

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

Code Name

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

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

User Note 1:

Production ID for TL = RBTW

Test ID for TL = RBTWTEST

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

GS05	337	Time	M	TM	4/8	Must use
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Description: Time expressed in 24-hour clock time as follows: HHMM, or HHMMSS, or HHMMSSD, or HHMMSSDD, where H = hours (00-23), M = minutes (00-59), S = integer seconds (00-59) and DD = decimal seconds; decimal seconds are expressed as follows: D = tenths (0-9) and DD = hundredths (00-99)

GS06	28	Group Control Number	M	N0	1/9	Must use
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Description: Assigned number originated and maintained by the sender

GS07	455	Responsible Agency Code	M	ID	1/2	Must use
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Description: Code identifying the issuer of the standard; this code is used in conjunction with Data Element 480

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

GS08	480	Version / Release / Industry Identifier Code	M	AN	1/12	Must use
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Description: Code indicating the version, release, subrelease, and industry identifier of the EDI standard being used, including the GS and GE segments; if code in DE455 in GS segment is X, then in DE 480 positions 1-3 are the version number; positions 4-6 are the release and subrelease, level of the version; and positions 7-12 are the industry or trade association identifiers (optionally assigned by user); if code in DE455 in GS segment is T,

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
		then other formats are allowed				
		CodeList Summary (Total Codes: 39, Included: 1)				
		<u>Code</u>		<u>Name</u>		
		004010		Draft Standards Approved for Publication by ASC X12 Procedures Review Board through October 1997		

Semantics:

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

Comments:

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

ST Transaction Set Header

Pos: 010	Max: 1
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:

<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	Used

Description: Code uniquely identifying a Transaction Set

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

Code Name

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ST02	329	Transaction Set Control Number	M	AN	4/9	Used
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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

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:

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

B1002	145	Shipment Identification Number	O	AN	1/30	Used
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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*

B1003	140	Standard Carrier Alpha Code	M	ID	2/4	Used
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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

Pos: 030	Max: 300
Not Defined - Optional	
Loop: N/A	Elements: 2

User Option (Usage): Must use

Purpose: To specify instructions in this business relationship or a reference 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>
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)*

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

Pos: 035	Max: 1
Not Defined - Optional	
Loop: N/A	Elements: 3

User Option (Usage): Used

Purpose: To indicate identifying marks and numbers for shipping containers

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>
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)

<u>Code</u>	<u>Name</u>
ZZ	Mutually Defined

MAN02	87	Marks and Numbers	M	AN	1/48	Must use
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Description: Marks and numbers used to identify a shipment or parts of a shipment

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

MAN03	87	Marks and Numbers	O	AN	1/48	Must use
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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:

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

N1 Name

Pos: 050	Max: 1
Not Defined - Optional	
Loop: 0100	Elements: 4

User Option (Usage): Used

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	Used
<p>Description: Code identifying an organizational entity, a physical location, property or an individual</p> <p>CodeList Summary (Total Codes: 1312, Included: 2)</p> <p>Code Name</p> <p>CN Consignee SH Shipper</p>						
N102	93	Name	X	AN	1/60	Used
<p>Description: Free-form name</p>						
N103	66	Identification Code Qualifier	X	ID	1/2	Not recommended
<p>Description: Code designating the system/method of code structure used for Identification Code (67)</p> <p>All valid standard codes are used. (Total Codes: 215)</p>						
N104	67	Identification Code	X	AN	2/80	Not recommended
<p>Description: Code identifying a party or other code</p>						

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:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
N301	166	Address Information	M	AN	1/55	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:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
N401	19	City Name	O	AN	2/30	Used
		Description: Free-form text for city name				
N402	156	State or Province Code	O	ID	2/2	Used
		Description: Code (Standard State/Province) as defined by appropriate government agency				
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

Pos: 130 Repeat: 1
 Mandatory
 Loop: 0200 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>
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:

<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	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:

<u>Pos</u>	<u>Id</u>	<u>Segment Name</u>	<u>Req</u>	<u>Max Use</u>	<u>Repeat</u>	<u>Usage</u>
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

Pos: 140 Max: 1
 Not Defined - Optional
 Loop: 0205 Elements: 7

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:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
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 receive In-Transit updates every 15 minutes in the form of an X6 status code.

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

AT702	1651	Shipment Status or Appointment Reason Code	X	ID	2/2	Used
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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)

AT703	1652	Shipment Appointment Status Code	X	ID	2/2	Used
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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

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)

AT705	373	Status Date	X	DT	8/8	Must use
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Description: Date expressed as CCYYMMDD

AT706	337	Status Time	X	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

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

Pos: 143	Max: 1
Not Defined - Optional	
Loop: 0205	Elements: 3

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:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
MS101	19	City Name	X	AN	2/30	Must use
Description: Free-form text for city name						
User Note 1: <i>Event Location City</i>						
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: <i>Event Location State</i>						
MS103	26	Country Code	X	ID	2/3	Used
Description: Code identifying the country						
User Note 1: <i>Event Location Country</i>						

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

Pos: 146 Max: 1
 Not Defined - Optional
 Loop: 0205 Elements: 4

User Option (Usage): Used

Purpose: To specify the owner, the identification number assigned by that owner, and the type of 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>
MS201	140	Standard Carrier Alpha Code	X	ID	2/4	Used
Description: Standard Carrier Alpha Code						
User Note 1: <i>Carrier's SCAC Code</i>						
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: <i>Trailer Number</i>						
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)						
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:

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

Pos: 150	Max: 2
Not Defined - Optional	
Loop: 0200	Elements: 3

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

L1102	128	Reference Identification Qualifier	X	ID	2/3	Must use
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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).

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).

L1103	352	Description	X	AN	1/80	Used
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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:

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

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

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

Pos: 200 Max: 10
 Not Defined - Optional
 Loop: 0200 Elements: 5

User Option (Usage): Used

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

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>
AT801	187	Weight Qualifier	X	ID	1/2	Used
<p>Description: Code defining the type of weight All valid standard codes are used. (Total Codes: 51)</p>						
AT802	188	Weight Unit Code	X	ID	1/1	Used
<p>Description: Code specifying the weight unit All valid standard codes are used. (Total Codes: 8)</p>						
AT803	81	Weight	X	R	1/10	Used
<p>Description: Numeric value of weight</p>						
AT804	80	Lading Quantity	O	N0	1/7	Used
<p>Description: Number of units (pieces) of the lading commodity</p> <p>User Note 1: <i>Case Count - Total number of cases on the load, including palletized and non-palletized.</i></p>						
AT805	80	Lading Quantity	O	N0	1/7	Used
<p>Description: Number of units (pieces) of the lading commodity</p> <p>User Note 1: <i>Pallet Count</i></p>						

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:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
SE01	96	Number of Included Segments	M	N0	1/10	Used

Description: Total number of segments included in a transaction set including ST and SE segments

SE02	329	Transaction Set Control Number	M	AN	4/9	Used
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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

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:

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

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