

214 Transportation Carrier Shipment Status Message

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

Version: 1.3 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			Must use
030	L11	Business Instructions and Reference Number	O	300			Used
035	MAN	Marks and Numbers	O	1		C0/035	Used
LOOP ID - 0100					<u>2</u>	<u>N0/050L</u>	
050	N1	Name	M	1		N0/050	Used
070	N3	Address Information	O	2			Used
080	N4	Geographic Location	O	1			Used
100	G62	Date/Time	O	1			Used
LOOP ID - 0100					<u>1</u>	<u>N0/050L</u>	
050	N1	Name	M	1		N0/050	Used
070	N3	Address Information	O	2			Used
080	N4	Geographic Location	O	1			Used
100	G62	Date/Time	O	1			Used
LOOP ID - 0200					<u>1</u>		
130	LX	Assigned Number	M	1			Must use
LOOP ID - 0205					<u>2</u>		
140	AT7	Shipment Status Details	O	1			Must use
143	MS1	Equipment, Shipment, or Real Property Location	M	1			Must use
146	MS2	Equipment or Container Owner and Type	O	1			Used
150	L11	Business Instructions and Reference Number	O	2			Recommended
150	L11	Business Instructions and Reference Number	O	2			Recommended
160	Q7	Lading Exception Code	O	10			Used
200	AT8	Shipment Weight, Packaging and Quantity Data	O	10			Used
610	SE	Transaction Set Trailer	M	1			Used

<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>
	GE	Functional Group Trailer	M	1			Must use
	IEA	Interchange Control Trailer	M	1			Must use

Notes:

- 0/050L Optional
 0/050 To identify a party by type of organization, name, and code.
 0/050L Optional
 0/050 To identify a party by type of organization, name, and code.

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.

Transaction Notes:*APPLICATION NOTES**1. LTL Carrier Spec*

This EDI 214 Load Status Message implementation guide pertains to Less Than Load (LTL) shipments from LTL carriers. This spec is NOT for Truckload carriers.

2. Functional Acknowledgments.

Please notify CH Robinson if you do not wish to receive 997 functional acknowledgements for the 214's.

3. Errors

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

4. 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)

- 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.

5. 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.

C.H. Robinson Inbound 214 Structure:

.A 214 load status report to C.H. Robinson should report a status(s) for one and only one location. For example, three 214's would be required to report a status(s) for each stop of a 3-stop load. A single 214 may contain 2 statuses in separate AT7 Loops for the same location. However, C.H. Robinson prefers only one status per 214.

.Maximum of one LX Loop per 214 with a maximum of 2 AT7 loops in the LX.

.CH Robinson needs to receive 214 status updates within one hour of the event occurrence.

Sample:

```
ST*214*481810001
B10*5896152*5896152*XXXX
L11*5896152*AG
L11*CHRW123456*OW
N1*SH*BAW PLASTICS INCORPORATED
N3*CENTURY III BUSINESS CTR*2148 CENTURY DRIVE
N4*JEFFERSON HILLS*PA*15025
G62*86*20050812
N1*CN*FINISH LINE
N3*3308 N MITTOEFFER ROAD*
N4*INDIANAPOLIS*IN*46235
G62*17*20050816
LX*1
AT7*D1*NS***20050815*1332*LT
MS1*INDIANAPOLIS*IN*USA
MS2*CWCE*049397
Q7*D*CAS*11
AT8*G*L*41923
SPO*6493642008**CA*21
SE*20*481810001
```

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						

Element Notes:

<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 ID = RBTWTEST</i>				
		<i>Production ID = RBTW</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: 3)				
		Code Name				
		00400 Standard Issued as ANSI X12.5-1997				
		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						
QM Transportation Carrier Shipment Status Message (214)						
GS02	142	Application Sender's Code	M	AN	2/15	Must use
Description: Code identifying party sending transmission; codes agreed to by trading partners						
GS03	124	Application Receiver's Code	M	AN	2/15	Must use
Description: Code identifying party receiving transmission; codes agreed to by trading partners						
Element Notes:						
<i>Test ID = RBTWTEST</i>						
<i>Production ID = RBTW</i>						
GS04	373	Date	M	DT	8/8	Must use
Description: Date expressed as CCYYMMDD						
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)						
GS06	28	Group Control Number	M	N0	1/9	Must use
Description: Assigned number originated and maintained by the sender						
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)						
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,						

<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	Must use

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	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

B10 Beginning Segment for Transportation Carrier Shipment Status Message

Pos: 020	Max: 1
Not Defined - Mandatory	
Loop: N/A	Elements: 7

User Option (Usage): Must use

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	X	AN	1/30	Must use
Description: Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier						
Element Notes: <i>Carrier Assigned Pro Number</i>						
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)						
Element Notes: <i>C.H. Robinson Load Number</i>						
B1003	140	Standard Carrier Alpha Code	M	ID	2/4	Must use
Description: Standard Carrier Alpha Code						
B1004	71	Inquiry Request Number	O	N0	1/3	Used
Description: Identifying number assigned by inquirer						
B1005	128	Reference Identification Qualifier	X	ID	2/3	Not used
Description: Code qualifying the Reference Identification						
All valid standard codes are used. (Total Codes: 1503)						
B1006	127	Reference Identification	X	AN	1/30	Not used
Description: Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier						
B1007	1073	Yes/No Condition or Response Code	O	ID	1/1	Not used
Description: Code indicating a Yes or No condition or response						
All valid standard codes are used. (Total Codes: 4)						

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): Used

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	Recommended
L1102	128	Reference Identification Qualifier	X	ID	2/3	Recommended

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

Description: Code qualifying the Reference Identification

Element Notes:

OW = CHRW Online Confirmation Number

CodeList Summary (Total Codes: 1503, Included: 5)

Code Name

BM	Bill of Lading Number
CR	Customer Reference Number
OW	Service Order Number - CHRW Online Confirmation Number
P8	Pickup Reference Number
SI	Shipper's Identifying Number for Shipment (SID)

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.

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)

Code Name

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

Element Notes: *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

Element Notes:

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.

Segment/Loop Notes:

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: 2
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	M	1		Used
070	N3	Address Information	O	2		Used
080	N4	Geographic Location	O	1		Used
100	G62	Date/Time	O	1		Used

Segment/Loop Notes:

Header N1 Loop(s) are Optional.

If sending the N1 Loop(s) the N1, N3 & N4 are used.

N1 Name

Pos: 050	Max: 1
Not Defined - Mandatory	
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

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

SH = Shipper

CN = Consignee

CodeList Summary (Total Codes: 1312, Included: 3)

Code Name

CN Consignee

N5 Party Who Signed the Delivery Receipt

SH Shipper

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

N103	66	Identification Code Qualifier	X	ID	1/2	Used
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Description: Code designating the system/method of code structure used for Identification Code (67)

All valid standard codes are used. (Total Codes: 215)

N104	67	Identification Code	X	AN	2/80	Used
------	----	---------------------	---	----	------	------

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:

<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	1/30	Must use
		Description: Address information				
N302	166	Address Information	O	AN	1/30	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	Must use
		Description: Free-form text for city name				
N402	156	State or Province Code	O	ID	2/2	Must use
		Description: Code (Standard State/Province) as defined by appropriate government agency				
N403	116	Postal Code	O	ID	3/15	Must use
		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.

G62 Date/Time

Pos: 100	Max: 1
Not Defined - Optional	
Loop: 0100	Elements: 2

User Option (Usage): Used

Purpose: To specify pertinent dates and times

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
G6201	432	1Date Qualifier	X	ID	2/2	Used

Description: Code specifying type of date

Element Notes: *If N101 = 'SH "86' - Actual Pickup
If N101 = 'CN "17' - Estimated Delivery Date*

CodeList Summary (Total Codes: 137, Included: 2)

Code Name

17 Estimated Delivery Date
86 Actual Pickup Date

G6202	373	Date	X	DT	8/8	Used
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Description: Date expressed as CCYYMMDD

Element Notes: *CCYYMMDD*

Syntax Rules:

1. P0102 - If either G6201 or G6202 is present, then the other is required.
2. P0304 - If either G6203 or G6204 is present, then the other is required.
3. R0103 - At least one of G6201 or G6203 is required.

Loop Name

Pos: 050	Repeat: 1
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	M	1		Used
070	N3	Address Information	O	2		Used
080	N4	Geographic Location	O	1		Used
100	G62	Date/Time	O	1		Used

N1 Name

Pos: 050	Max: 1
Not Defined - Mandatory	
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	Must use

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

N5 = Party who signed the delivery receipt

CodeList Summary (Total Codes: 1312, Included: 1)

Code Name

N5 Party Who Signed the Delivery Receipt

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

N103	66	Identification Code Qualifier	X	ID	1/2	Used
------	----	--------------------------------------	---	----	-----	------

Description: Code designating the system/method of code structure used for Identification Code (67)

All valid standard codes are used. (Total Codes: 215)

N104	67	Identification Code	X	AN	2/80	Used
------	----	----------------------------	---	----	------	------

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.

Segment/Loop Notes:

Send with Delivery 214

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	1/30	Used
		Description: Address information				
N302	166	Address Information	O	AN	1/30	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	Must use
		Description: Free-form text for city name				
N402	156	State or Province Code	O	ID	2/2	Must use
		Description: Code (Standard State/Province) as defined by appropriate government agency				
N403	116	Postal Code	O	ID	3/15	Must use
		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.

G62 Date/Time

Pos: 100	Max: 1
Not Defined - Optional	
Loop: 0100	Elements: 2

User Option (Usage): Used

Purpose: To specify pertinent dates and times

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
G6201	432	Date Qualifier	X	ID	2/2	Used

Description: Code specifying type of date

Element Notes: *If N101 = 'CN "17' - Estimated Delivery*

CodeList Summary (Total Codes: 137, Included: 1)

Code Name

17 Estimated Delivery Date

G6202	373	Date	X	DT	8/8	Used
-------	-----	------	---	----	-----	------

Description: Date expressed as CCYYMMDD

Element Notes: *CCYYMMDD*

Syntax Rules:

1. P0102 - If either G6201 or G6202 is present, then the other is required.
2. P0304 - If either G6203 or G6204 is present, then the other is required.
3. R0103 - At least one of G6201 or G6203 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	M	1		Must use
140		Loop 0205	M		2	Must use
150	L11	Business Instructions and Reference Number	O	2		Recommended
150	L11	Business Instructions and Reference Number	O	2		Recommended
160	Q7	Lading Exception Code	O	10		Used
200	AT8	Shipment Weight, Packaging and Quantity Data	O	10		Used

LX Assigned Number

Pos: 130	Max: 1
Not Defined - Mandatory	
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	Must use

Description: Number assigned for differentiation within a transaction set

Segment/Loop Notes:

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: 2
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	M	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

Element Notes:

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
-------	------	--	---	----	-----	------

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

Element Notes: NS - Normal Status or see Late Reason Code List

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

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

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

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
-------	-----	-------------	---	----	-----	----------

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

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
		= tenths (0-9) and DD = hundredths (00-99)				
		Element Notes: <i>HHMM</i>				
AT707	623	Time Code	O	ID	2/2	Recommended

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

Element Notes:

The date/time in AT7_05 & 06 are local time. No adjustments should be made for time zones.

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 - Mandatory	
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						
Element Notes: <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						
Element Notes: <i>Event Location State</i>						
MS103	26	Country Code	X	ID	2/3	Used
Description: Code identifying the country						
Element Notes: <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: 2

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

Element Notes: *Carrier's SCAC Code*

MS202	207	Equipment Number	X	AN	1/10	Used
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Description: Sequencing or serial part of an equipment unit's identifying number (pure numeric form for equipment number is preferred)

Element Notes: *Trailer Number*

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.

Comments:

1. Only send MS2 if you have the Trailer Number

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:

<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

LK Longitude expressed in Degrees, Minutes and Seconds

LQ Latitude Expressed in Degrees, Minutes and Seconds

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

Element Notes: 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.

Segment/Loop Notes:

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*LQ*N

L11*1115624*LK*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
-------	-----	------------------------------------	---	----	-----	----------

Description: Code qualifying the Reference Identification

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

Code Name

LH Longitude Expressed in Seconds

LL Latitude Expressed in Seconds

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.

Segment/Loop Notes:

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

Q7 Lading Exception Code

Pos: 160	Max: 10
Not Defined - Optional	
Loop: 0200	Elements: 3

User Option (Usage): Used

Purpose: To specify the status of the shipment in terms of lading exception 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>
Q701	33	Lading Exception Code	M	ID	1/1	Must use
		Description: Code indicating the condition of the shipment All valid standard codes are used. (Total Codes: 6)				
Q702	211	Packaging Form Code	X	ID	3/3	Must use
		Description: Code for packaging form of the lading quantity All valid standard codes are used. (Total Codes: 134)				
Q703	80	Lading Quantity	X	N0	1/7	Must use
		Description: Number of units (pieces) of the lading commodity				

Syntax Rules:

1. C0203 - If Q702 is present, then Q703 is required.

Segment/Loop Notes:

Q7 is Optional. If used, we need Q7_01, Q7_02, Q7_03

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
		Description: Code defining the type of weight All valid standard codes are used. (Total Codes: 51)				
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)				
AT803	81	Weight	X	R	1/10	Used
		Description: Numeric value of weight				
AT804	80	Lading Quantity	O	N0	1/7	Used
		Description: Number of units (pieces) of the lading commodity				
AT805	80	Lading Quantity	O	N0	1/7	Used
		Description: Number of units (pieces) of the lading commodity				

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	Must use
		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	Must use
		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				