

CONTAX

Shipping Technology

ANSI X12 004010 · EDI IMPLEMENTATION GUIDE

CONTAX EDI 214 Implementation Guide

Transaction Set 214 — Transportation Carrier Shipment Status Message

Version 3.2

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Prepared by CONTAX, Inc.

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Owner: CONTAX, Inc.

Technical contact: edi-support@contax.com

1. Purpose

This guide defines the CONTAX implementation of the ANSI X12 214 Transportation Carrier Shipment Status Message for carrier status feeds into CONTAX.

The 214 transaction set is used by transportation carriers to send shipment status events to CONTAX, including:

- Pickups
- Deliveries
- Exceptions
- Estimated delivery updates
- Appointment-related events
- Location updates
- Shipment handling quantities, weights, and lading exceptions
- Temperature or FSMA-related tracking information, where applicable

Each **LX** loop represents one shipment status event for the shipment identified in the **B10** segment.

Profile scope. This profile targets less-than-truckload (LTL) and truckload carrier status reporting. The full X12 214 standard also carries a small-package carrier extension (carton/package detail, purchase-order detail, and binary attachment loops). CONTAX does not implement most of that extension in this profile. **CD3** (Carton (Package) Detail) is the one exception: it is documented as a normal, optional segment in Section 12 for carrier developers who also need to report small-package/parcel carton-level status.

2. Core Conventions

Convention	Requirement
Requirement designator	M = Mandatory, O = Optional, X / C = Conditional (governed by a syntax rule)
Date format	CCYYMMDD unless otherwise specified
ISA date format	YYMMDD in ISA09
Time format	HHMM through HHMMSSDD, depending on segment requirements
Carrier SCAC	B1003 is mandatory for all 214 transmissions
Status dates/times	Must be transmitted in AT7 (AT705 / AT706), not G62
Appointment dates/times	Must be transmitted in AT7 (AT705 / AT706), not G62
G62 usage	Party-loop segment reserved for other date types (for example estimated delivery or ship date); per the standard, status and appointment dates/times must not be transmitted in G62
AT701 and AT703	Mutually exclusive within a single AT7 segment
Interchange control number	ISA13 must be exactly 9 digits, zero-padded, and must match IEA02
Transaction set control number	ST02 must match SE02
Functional group control number	GS06 must match GE02

3. High-Level Transaction Structure

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ISA - Interchange Control Header
GS - Functional Group Header
  ST - Transaction Set Header
  B10 - Beginning Segment for Shipment Status
  L11 - Header Reference Numbers
  MAN - Marks and Numbers / FSMA Temperature Tracking
  K1 - Remarks
  N1 Loop - Party Identification (repeat 10)
    N1 - Name
    N2 - Additional Name Information
    N3 - Address
    N4 - Geographic Location
    G61 - Contact
    G62 - Date/Time (not status/appointment dates)
    L11 - Party Reference Numbers
  MS3 - Interline Information
  LX Loop - Shipment Status Event (repeat 999999)
    LX - Assigned Number
    AT7 Loop - Shipment Status Details (repeat 10)
      AT7 - Shipment Status Details
      MS1 - Equipment / Shipment Location
      MS2 - Equipment or Container Owner and Type
      L11 - Detail Reference Numbers
      Q7 - Lading Exception Code
      AT5 - Bill of Lading Handling Requirements
      AT8 - Shipment Weight / Packaging / Quantity Data
    CD3 - Carton (Package) Detail (Optional; Section 12)
      [ remaining small-package carton/P0/binary sub-tree - out of scope for this profile ]
  SE - Transaction Set Trailer
GE - Functional Group Trailer
IEA - Interchange Control Trailer
```

4. Transaction Set Map

Positions and loop identifiers below follow the ANSI X12 004010 214 standard. **CD3** (positions 210 and 380) is an optional segment — see Section 12. The remaining small-package carton/PO/binary sub-tree is out of scope for this profile.

Pos.	Segment	Segment Name	Req.	Max Use	Loop / Repeat	Notes
010	ST	Transaction Set Header	M	1		Must use
020	B10	Beginning Segment for Transportation Carrier Shipment Status	M	1		Must use
030	L11	Business Instructions and Reference Number - Header	O	300		Header-level references
035	MAN	Marks and Numbers	O	9999		FSMA / temperature tracking
040	K1	Remarks	O	10		Free-form remarks
050	N1	Name	M	1	Loop 0100 / 10	Party loop trigger
060	N2	Additional Name Information	O	1	Loop 0100	Within party loop
070	N3	Address Information	O	2	Loop 0100	Within party loop
080	N4	Geographic Location	O	1	Loop 0100	Within party loop
090	G61	Contact	O	1	Loop 0100	Within party loop
100	G62	Date/Time	O	1	Loop 0100	Within party loop; not for status/ appointment dates
110	L11	Business Instructions and Reference Number - Party	O	10	Loop 0100	Party-level references
120	MS3	Interline Information	O	12		Interline carrier/routing
130	LX	Assigned Number	M	1	Loop 0200 / 999999	Status event loop trigger
140	AT7	Shipment Status Details	M	1	Loop 0205 / 10	Status detail loop trigger, within LX
143	MS1	Equipment, Shipment, or Real Property Location	O	1	Loop 0205	Location for status event
146	MS2	Equipment or Container Owner and Type	O	1	Loop 0205	Equipment owner/number
150	L11	Business Instructions and Reference Number - Detail	O	10	Loop 0200	Detail-level references
160	Q7	Lading Exception Code	O	10	Loop 0200	Lading exception detail

Pos.	Segment	Segment Name	Req.	Max Use	Loop / Repeat	Notes
180	AT5	Bill of Lading Handling Requirements	O	10	Loop 0200	Handling / special service requirements
200	AT8	Shipment Weight, Packaging and Quantity Data	O	10	Loop 0200	Weight/quantity detail
210	CD3	Carton (Package) Detail	O	1	Loop 0210 / 999999	Optional — small-package/parcel carton-level status; see Section 12
610	SE	Transaction Set Trailer	M	1		Must use

Loop repeat counts: Loop 0100 (N1) repeats up to 10; Loop 0200 (LX) repeats up to 999,999; Loop 0205 (AT7) repeats up to 10 within each LX loop.

5. Envelope Segments

5.1 ISA - Interchange Control Header

Usage: Envelope / Mandatory / Max Use: 1

Purpose: Starts and identifies an interchange of one or more functional groups.

Key rules:

- ISA06 and ISA08 must be exactly 15 characters.
- Pad ISA06 and ISA08 with trailing spaces where necessary.
- ISA13 must be exactly 9 digits.
- ISA13 must be zero-padded.
- ISA13 must match IEA02 exactly.
- ISA16 must differ from the element separator.
- ~ is reserved for the segment terminator.

Ref. Des.	Data Elem.	Name	Req.	Type	Size	Notes / Valid Values
ISA01	I01	Authorization Information Qualifier	M	ID	2/2	00 = No Authorization Information Present
ISA02	I02	Authorization Information	M	AN	10/10	Exactly 10 characters; pad with trailing spaces
ISA03	I03	Security Information Qualifier	M	ID	2/2	00 = No Security Information Present
ISA04	I04	Security Information	M	AN	10/10	Exactly 10 characters; pad with trailing spaces
ISA05	I05	Interchange ID Qualifier - Sender	M	ID	2/2	Valid 4010 qualifier
ISA06	I06	Interchange Sender ID	M	AN	15/15	Exactly 15 characters; pad with trailing spaces
ISA07	I05	Interchange ID Qualifier - Receiver	M	ID	2/2	Valid 4010 qualifier
ISA08	I07	Interchange Receiver ID	M	AN	15/15	Exactly 15 characters; pad with trailing spaces
ISA09	I08	Interchange Date	M	DT	6/6	YYMMDD
ISA10	I09	Interchange Time	M	TM	4/4	HHMM
ISA11	I10	Interchange Control Standards Identifier	M	ID	1/1	U fixed
ISA12	I11	Interchange Control Version Number	M	ID	5/5	00401 fixed
ISA13	I12	Interchange Control Number	M	N0	9/9	9 digits, zero-padded; must match IEA02
ISA14	I13	Acknowledgment Requested	M	ID	1/1	0 = None; 1 = Requested
ISA15	I14	Test Indicator	M	ID	1/1	P = Production Data; T = Test Data

Ref. Des.	Data Elem.	Name	Req.	Type	Size	Notes / Valid Values
ISA16	I15	Subelement Separator	M	AN	1/1	Must differ from element separator; ~ reserved for segment terminator

5.2 GS - Functional Group Header

Usage: Envelope / Mandatory / Max Use: 1

Purpose: Indicates the beginning of a functional group and provides control information.

Key rule: GS06 must match GE02.

Ref. Des.	Data Elem.	Name	Req.	Type	Size	Notes / Valid Values
GS01	479	Functional Identifier Code	M	ID	2/2	QM = Transportation Carrier Shipment Status Message (214)
GS02	142	Application Sender's Code	M	AN	2/15	Trading partner sender ID
GS03	124	Application Receiver's Code	M	AN	2/15	Trading partner receiver ID
GS04	373	Date	M	DT	8/8	CCYYMMDD
GS05	337	Time	M	TM	4/8	HHMM, HHMMSS, HHMMSSD, or HHMMSSDD
GS06	28	Group Control Number	M	N0	1/9	Must match GE02
GS07	455	Responsible Agency Code	M	ID	1/2	X = ASC X12; T = TDCC
GS08	480	Version / Release / Industry Identifier Code	M	AN	1/12	004010

6. Header Segments

6.1 ST - Transaction Set Header

Usage: Header / Position 010 / Mandatory / Max Use: 1

Purpose: Indicates the start of a transaction set and assigns a control number.

Key rule: ST02 must match SE02.

Ref. Des.	Data Elem.	Name	Req.	Type	Size	Notes / Valid Values
ST01	143	Transaction Set Identifier Code	M	ID	3/3	214 = Transportation Carrier Shipment Status Message
ST02	329	Transaction Set Control Number	M	AN	4/9	Unique within functional group; must match SE02

6.2 B10 - Beginning Segment for Transportation Carrier Shipment Status Message

Usage: Header / Position 020 / Mandatory / Max Use: 1

Purpose: Transmits the shipment identification and carrier reference data for the status message.

Syntax and semantic rules:

- At least one of B1001 or B1006 is required.
- Only one of B1001 or B1005 may be present.
- If either B1005 or B1006 is present, then the other is required.
- B1001 is the carrier's PRO number / invoice number identifying the shipment.
- B1003 is mandatory for all 214 transmissions.

Ref. Des.	Data Elem.	Name	Req.	Type	Size	Notes / Valid Values
B1001	127	Reference Identification - PRO#	X	AN	1/30	Carrier's PRO / invoice number. Required if B1006 is absent.
B1002	145	Shipment Identification Number	O	AN	1/30	Shipment ID assigned by shipper. No blanks or special characters.
B1003	140	Standard Carrier Alpha Code - SCAC	M	ID	2/4	Required for all 214 transmissions.
B1004	71	Inquiry Request Number	O	N0	1/3	Number assigned by inquirer
B1005	128	Reference Identification Qualifier	X	ID	2/3	ZZ = Mutually Defined. Required if B1006 is present.
B1006	127	Reference Identification	X	AN	1/30	Required if B1001 is absent.
B1007	1073	Yes/No Condition or Response Code	O	ID	1/1	Y = Received via EDI; N = Key-entered

6.3 L11 - Business Instructions and Reference Number, Header Level

Usage: Header / Position 030 / Optional / Max Use: 300

Purpose: Provides bill of lading, PRO, or other reference numbers at the header level.

Syntax rules:

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

Ref. Des.	Data Elem.	Name	Req.	Type	Size	Notes / Valid Values
L1101	127	Reference Identification	X	AN	1/30	Reference number. Required if L1103 is absent.
L1102	128	Reference Identification Qualifier	X	ID	2/3	BM = Bill of Lading; CN = Carrier's Reference / PRO / Invoice. Required if L1101 is present.

Note: The standard also defines L1103 (Description). CONTAX does not implement L1103 in this profile, so L1101 is effectively required. See Section 18.

6.4 MAN - Marks and Numbers

Usage: Header / Position 035 / Optional / Max Use: 9999

Purpose: Specifies marks and numbers for shipment identification. Used for FSMA compliance and temperature-controlled shipment tracking.

Ref. Des.	Data Elem.	Name	Req.	Type	Size	Notes / Valid Values
MAN01	88	Marks and Numbers Qualifier	M	ID	1/2	ZZ = Mutually Defined
MAN02	87	Marks and Numbers	M	AN	1/48	Temperature value at stop when used for FSMA tracking
MAN03	87	Marks and Numbers	O	AN	1/48	Scale indicator: C = Celsius; F = Fahrenheit

6.5 K1 - Remarks

Usage: Header / Position 040 / Optional / Max Use: 10

Purpose: Transmits information in a free-form format for comment or special instruction.

Ref. Des.	Data Elem.	Name	Req.	Type	Size	Notes / Valid Values
K101	61	Free-Form Message	M	AN	1/30	Free-form information
K102	61	Free-Form Message	O	AN	1/30	Free-form information (continuation)

7. Loop 0100 - Party Identification

Loop repeat: Up to 10 parties

Purpose: Identifies the relevant parties for the shipment.

Supported party types in this specification:

Code	Meaning
BT	Bill-to-Party
CN	Consignee
SH	Shipper

7.1 N1 - Name

Usage: Header / Position 050 / Mandatory / Max Use: 1 per loop

Purpose: Identifies a party by type of organization, name, and code.

Syntax rules:

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

Ref. Des.	Data Elem.	Name	Req.	Type	Size	Notes / Valid Values
N101	98	Entity Identifier Code	M	ID	2/3	BT = Bill-to-Party; CN = Consignee; SH = Shipper
N102	93	Name	X	AN	1/60	Free-form name. Required if N103 is absent.
N103	66	Identification Code Qualifier	X	ID	1/2	Required if N104 is present.
N104	67	Identification Code	X	AN	2/80	Required if N103 is present.

7.2 N2 - Additional Name Information

Usage: Header / Position 060 / Optional / Max Use: 1 within Loop 0100

Purpose: Specifies additional names, or names longer than the **N102** capacity.

Ref. Des.	Data Elem.	Name	Req.	Type	Size	Notes / Valid Values
N201	93	Name	M	AN	1/60	Free-form name
N202	93	Name	O	AN	1/60	Free-form name (continuation)

7.3 N3 - Address Information

Usage: Header / Position 070 / Optional / Max Use: 2 within Loop 0100

Purpose: Specifies the street address of the named party.

Ref. Des.	Data Elem.	Name	Req.	Type	Size	Notes / Valid Values
N301	166	Address Information	M	AN	1/55	Address line 1
N302	166	Address Information	O	AN	1/55	Address line 2

7.4 N4 - Geographic Location

Usage: Header / Position 080 / Optional / Max Use: 1 within Loop 0100

Purpose: Specifies city, state/province, postal code, and country of the named party.

Syntax and comment rules:

- If N406 is present, then N405 is required.
- N402 is required only if city name N401 is in the U.S. or Canada.

Ref. Des.	Data Elem.	Name	Req.	Type	Size	Notes / Valid Values
N401	19	City Name	O	AN	2/30	Free-form city name
N402	156	State or Province Code	O	ID	2/2	Standard state/province code
N403	116	Postal Code	O	ID	3/15	International postal zone code
N404	26	Country Code	O	ID	2/3	ISO country code

Note: The standard also defines N405 (Location Qualifier) and N406 (Location Identifier). CONTAX does not implement N405 or N406 in this profile. See Section 18.

7.5 G61 - Contact

Usage: Header / Position 090 / Optional / Max Use: 1 within Loop 0100

Purpose: Identifies a person or office to whom communications should be directed for the named party.

Syntax rule: If either G6103 or G6104 is present, then the other is required (G6103 qualifies G6104).

Ref. Des.	Data Elem.	Name	Req.	Type	Size	Notes / Valid Values
G6101	366	Contact Function Code	M	ID	2/2	Code identifying the major duty/responsibility of the person or group named
G6102	93	Name	M	AN	1/60	Free-form contact name
G6103	365	Communication Number Qualifier	X	ID	2/2	Type of communication number. Required if G6104 is present.
G6104	364	Communication Number	X	AN	1/80	Complete communications number including country/ area code. Required if G6103 is present.
G6105	443	Contact Inquiry Reference	O	AN	1/20	Additional reference/description to clarify a contact number

7.6 G62 - Date/Time

Usage: Header / Position 100 / Optional / Max Use: 1 within Loop 0100

Purpose: Specifies applicable dates and times for the named party, such as estimated delivery or ship date.

Important rule: Status dates and appointment dates/times must not be transmitted in G62. Use AT7 elements AT705 and AT706 for those dates/times.

Syntax rules:

- At least one of G6201 or G6203 is required.
- If either G6201 or G6202 is present, then the other is required.
- If either G6203 or G6204 is present, then the other is required.

Ref. Des.	Data Elem.	Name	Req.	Type	Size	Notes / Valid Values
G6201	432	Date Qualifier	X	ID	2/2	Standard 4010 date qualifier. Required if G6202 is present.
G6202	373	Date	X	DT	8/8	CCYYMMDD . Required if G6201 is present.
G6203	176	Time Qualifier	X	ID	1/2	Standard 4010 time qualifier. Required if G6204 is present.
G6204	337	Time	X	TM	4/8	HHMM to HHMMSSDD . Required if G6203 is present.
G6205	623	Time Code	O	ID	2/2	ISO 8601 time-zone offset code (for example CT , ET , MT , PT , or UTC-offset codes)

7.7 L11 - Business Instructions and Reference Number, Party Level

Usage: Header / Position 110 / Optional / Max Use: 10 within Loop 0100

Purpose: Provides party-level reference numbers within the **N1** loop.

Syntax rules:

- At least one of **L1101** or **L1103** is required.
- If either **L1101** or **L1102** is present, then the other is required.

Ref. Des.	Data Elem.	Name	Req.	Type	Size	Notes / Valid Values
L1101	127	Reference Identification	X	AN	1/30	Reference number. Required if L1103 is absent.
L1102	128	Reference Identification Qualifier	X	ID	2/3	Standard 4010 reference qualifier. Required if L1101 is present.

Note: The standard also defines **L1103** (Description), which CONTAX does not implement in this profile. See Section 18.

8. MS3 - Interline Information

8.1 MS3 - Interline Information

Usage: Header / Position 120 / Optional / Max Use: 12

Purpose: Identifies the interline carrier and relevant routing data.

Syntax rule: If MS305 is present, then MS303 is required.

Ref. Des.	Data Elem.	Name	Req.	Type	Size	Notes / Valid Values
MS301	140	Standard Carrier Alpha Code	M	ID	2/4	SCAC of the interline carrier
MS302	133	Routing Sequence Code	M	ID	1/2	For example B = Origin/Intermediate/Destination Carrier (see element 133 code list)
MS303	19	City Name	X	AN	2/30	City where the interline was performed. Required if MS305 is present.
MS304	91	Transportation Method/ Type Code	O	ID	1/2	Method/type of transportation for the shipment (see element 91 code list)
MS305	156	State or Province Code	O	ID	2/2	Standard state/province code

9. Loop 0200 - Status Event (LX)

Loop repeat: Up to 999,999

Purpose: Represents one or more shipment status events for the shipment identified by the **B10** segment.

9.1 LX - Assigned Number

Usage: Detail / Position 130 / Mandatory / Max Use: 1 per loop

Purpose: References a status event line number within the transaction set.

Ref. Des.	Data Elem.	Name	Req.	Type	Size	Notes / Valid Values
LX01	554	Assigned Number	M	N0	1/6	Number assigned for differentiation within the transaction set

10. Loop 0205 - Shipment Status Details (AT7)

Loop repeat: Up to 10 per **LX** loop

Purpose: Provides shipment status, appointment status, reason, date, time, and location/equipment context.

10.1 AT7 - Shipment Status Details

Usage: Detail / Position 140 / Mandatory / Max Use: 1 per loop

Purpose: Specifies the shipment status code, reason code, date, time, and any appointment details.

Syntax rules:

- Only one of AT701 or AT703 may be present. They are mutually exclusive.
- If either AT701 or AT702 is present, then the other is required.
- If either AT703 or AT704 is present, then the other is required.
- If AT706 is present, then AT705 is required.
- If AT707 is present, then AT706 is required.

Semantic rules:

- If AT701 is present, AT705 is the date the shipment status occurred.
- If AT703 is present, AT705 is the appointment date.
- If AT701 is present, AT706 is the time the shipment status occurred.
- If AT703 is present, AT706 is the appointment time.
- If AT707 is not present, AT706 represents the local time of the status.

Ref. Des.	Data Elem.	Name	Req.	Type	Size	Notes / Valid Values
AT701	1650	Shipment Status Code	X	ID	2/2	Mutually exclusive with AT703 . See Appendix A for valid values.
AT702	1651	Shipment Status or Appointment Reason Code	X	ID	2/2	Required if AT701 is present. See reason code table below.
AT703	1652	Shipment Appointment Status Code	X	ID	2/2	Mutually exclusive with AT701 . Required if AT704 is present. See Appendix B.
AT704	1651	Shipment Status or Appointment Reason Code	X	ID	2/2	Required if AT703 is present. See AT702 reason codes.
AT705	373	Date	X	DT	8/8	Status or appointment date, CCYYMMDD .
AT706	337	Time	X	TM	4/8	Status or appointment time. Required if AT705 is present.
AT707	623	Time Code	O	ID	2/2	CT = Central; ET = Eastern; MT = Mountain; PT = Pacific. Required if AT706 is present.

AT702 / AT704 REASON CODES (ELEMENT 1651)

Code	Meaning
A1	Missed Delivery
A2	Incorrect Address
A3	Indirect Delivery

Code	Meaning
A5	Unable to Locate
A6	Address Corrected
AA	Mis-sort
AD	Customer Requested Future Delivery
AE	Restricted Articles
AF	Accident
AG	Consignee Related
AH	Driver Related
AI	Mechanical Breakdown
AJ	Other Carrier Related
AK	Damaged Rewrapped in Hub
AL	Previous Stop
AM	Shipper Related
AN	Holiday-Closed
AO	Weather or Natural Disaster
AP	Awaiting Export
AQ	Recipient Unavailable
AR	Improper International Paperwork
AS	Hold Due to Customs Documentation
AT	Unable to Contact Broker
AU	Civil Event Delay
AV	Exceeds Service Limitations
AW	Past Cut-off
AX	Insufficient Pick-up Time
AY	Missed Pick-up
AZ	Alternate Carrier Delivered
B1	Consignee Closed
B2	Trap for Customer
B4	Held for Payment
B5	Held for Consignee

Code	Meaning
B8	Improper Unloading Facility
B9	Receiving Time Restricted
BB	Held per Shipper
BC	Missing Documents
BD	Border Clearance
BE	Road Conditions
BF	Carrier Keying Error
BG	Other
BH	Insufficient Time to Complete Delivery
BI	Cartage Agent
BJ	Customer Wanted Earlier Delivery
BK	P rearranged Appointment
BL	Held for Protective Service
BM	Flatcar Shortage
BN	Failed to Release Billing
NS	Normal Status
P1	Processing Delay

The list above reflects the codes CONTAX processes. Element 1651 contains additional values; codes not listed should be reviewed with CONTAX EDI support.

10.2 MS1 - Equipment, Shipment, or Real Property Location

Usage: Detail / Position 143 / Optional / Max Use: 1 within Loop 0205

Purpose: Specifies the location of a piece of equipment, a shipment, or real property in terms of city/state or longitude/latitude.

Syntax rules:

- If MS101 is present, then at least one of MS102 or MS103 is required.
- Only one of MS101 or MS104 may be present.
- If MS102 is present, then MS101 is required.
- If MS103 is present, then MS101 is required.
- If either MS104 or MS105 is present, then the other is required.
- If MS106 is present, then MS104 is required.
- If MS107 is present, then MS105 is required.

Ref. Des.	Data Elem.	Name	Req.	Type	Size	Notes / Valid Values
MS101	19	City Name	X	AN	2/30	Free-form city name
MS102	156	State or Province Code	X	ID	2/2	Standard state/province code
MS103	26	Country Code	X	ID	2/3	ISO country code

Note: The standard also defines MS104 through MS107 (longitude/latitude location). CONTAX does not implement MS104 through MS107 in this profile; the "only one of MS101 or MS104" and related rules are retained for reference. See Section 18.

10.3 MS2 - Equipment or Container Owner and Type

Usage: Detail / Position 146 / Optional / Max Use: 1 within Loop 0205

Purpose: Specifies the owner, identification number, and type of equipment.

Syntax and semantic rules:

- If either MS201 or MS202 is present, then the other is required.
- If MS204 is present, then MS202 is required.
- MS203 identifies the type for the equipment specified in MS202 .

Ref. Des.	Data Elem.	Name	Req.	Type	Size	Notes / Valid Values
MS201	140	Standard Carrier Alpha Code	X	ID	2/4	SCAC of the equipment or container owner. Required if MS202 is present.
MS202	207	Equipment Number	X	AN	1/10	Sequencing or serial part of the equipment unit's identifying number. Required if MS201 is present.

Note: The standard also defines MS203 (Equipment Type) and MS204 (Equipment Number Check Digit). CONTAX does not implement MS203 or MS204 in this profile. See Section 18.

11. Additional Detail Segments within Loop 0200

11.1 L11 - Business Instructions and Reference Number, Detail Level

Usage: Detail / Position 150 / Optional / Max Use: 10 within Loop 0200

Purpose: Provides detail-level reference numbers, such as stop sequence number, within the **LX** loop.

Syntax rules:

- At least one of **L1101** or **L1103** is required.
- If either **L1101** or **L1102** is present, then the other is required.

Ref. Des.	Data Elem.	Name	Req.	Type	Size	Notes / Valid Values
L1101	127	Reference Identification	X	AN	1/30	Reference information. Required if L1103 is absent.
L1102	128	Reference Identification Qualifier	X	ID	2/3	QN = Stop Sequence Number. Required if L1101 is present.

Note: The standard also defines **L1103** (Description), which CONTAX does not implement in this profile. See Section 18.

11.2 Q7 - Lading Exception Code

Usage: Detail / Position 160 / Optional / Max Use: 10 within Loop 0200

Purpose: Specifies shipment status in terms of lading exception information.

Syntax rule: If **Q702** is present, then **Q703** is required (rule **C0203**, one-directional).

Ref. Des.	Data Elem.	Name	Req.	Type	Size	Notes / Valid Values
Q701	33	Lading Exception Code	M	ID	1/1	A = All Short; D = Damaged; E = Entire Shipment Refused; O = Overage; P = Partial Shipment; W = Wrong Product
Q702	211	Packaging Form Code	O	ID	3/3	For example BAG , BOX , CTN , CRT , PLT , SKD (see element 211 code list).
Q703	80	Lading Quantity	X	N0	1/7	Number of units (pieces). Required if Q702 is present.

11.3 AT5 - Bill of Lading Handling Requirements

Usage: Detail / Position 180 / Optional / Max Use: 10 within Loop 0200

Purpose: Identifies Bill of Lading handling and service requirements associated with the shipment.

Syntax rules:

- Only one of AT501 or AT503 may be present.
- Only one of AT502 or AT503 may be present.

Ref. Des.	Data Elem.	Name	Req.	Type	Size	Notes / Valid Values
AT501	152	Special Handling Code	X	ID	2/3	Special transportation handling instructions (see element 152 code list). Mutually exclusive with AT503 .
AT502	560	Special Services Code	X	ID	2/10	Special service identifier (see element 560 code list). Mutually exclusive with AT503 .
AT503	153	Special Handling Description	X	AN	2/30	Free-form description of special handling, used when a code is not adequate.

11.4 AT8 - Shipment Weight, Packaging and Quantity Data

Usage: Detail / Position 200 / Optional / Max Use: 10 within Loop 0200

Purpose: Specifies shipment details in terms of weight and quantity of handling units.

Syntax rules:

- If any of AT801 , AT802 , or AT803 are present, then all three are required.
- If either AT806 or AT807 is present, then the other is required.

Semantic rules:

- AT804 is the quantity of handling units that are not unitized, such as cartons.
- AT805 is the quantity of handling units that are unitized, such as pallets or slip sheets.
- $AT804 + AT805 = \text{total quantity}$.

Ref. Des.	Data Elem.	Name	Req.	Type	Size	Notes / Valid Values
AT801	187	Weight Qualifier	X	ID	1/2	G = Gross Weight. Required with AT802 and AT803 .
AT802	188	Weight Unit Code	X	ID	1/1	L = Pounds. Required with AT801 and AT803 .
AT803	81	Weight	X	R	1/10	Numeric weight value. Required with AT801 and AT802 .
AT804	80	Lading Quantity - Non-unitized	O	N0	1/7	Number of non-unitized handling units, such as cartons.
AT805	80	Lading Quantity - Unitized	O	N0	1/7	Number of unitized handling units, such as pallets.
AT806	184	Volume Unit Qualifier	X	ID	1/1	E = Cubic Feet. Required if AT807 is present.
AT807	183	Volume	X	R	1/8	Value of volumetric measure. Required if AT806 is present.

12. CD3 - Carton (Package) Detail

Loop repeat: Up to 999,999 (Loop 0210, nested within Loop 0200); the identical segment also recurs as Loop 0233, nested within Loop 0230 → Loop 0231 (also repeat up to 999,999)

Purpose: Reports carton (package)-level status detail for small-package/parcel shipments. Optional — implement only if your organization also reports small-package/parcel carton-level status to CONTAX. The other segments in these loops (L11 , AT7 , MS1 , MS2 , NM1 , Q7 , AT8 , MAN , and the PO/party loop members) are out of scope for this profile; contact edi-support@contax.com if you need them defined.

12.1 CD3 - Carton (Package) Detail

Usage: Detail / Position 210 (recurs at Position 380) / Optional / Max Use: 1 per loop

Purpose: Transmits identifying codes, weights, and other related information for an individual carton (package).

Syntax rules:

- If either CD301 or CD302 is present, then the other is required.
- If either CD307 or CD308 is present, then the other is required.
- If either CD309 or CD310 is present, then the other is required.
- If CD311 is present, then CD305 is required.
- If CD312 is present, then CD311 is required.
- If CD314 is present, then CD305 is required.

Semantic rules:

- CD308 is the charge for the single package; CD310 is the total charge for all of the packages.
- CD314 is the country where the service is to be performed.

Ref. Des.	Data Elem.	Name	Req.	Type	Size	Notes / Valid Values
CD301	187	Weight Qualifier	X	ID	1/2	Code defining the type of weight (e.g., G = Gross; N = Actual Net; B = Billed). Required if CD302 present.
CD302	81	Weight	X	R	1/10	Numeric value of package weight. Required if CD301 present.
CD303	619	Zone	O	AN	2/3	Carrier delivery zone
CD304	34	Service Standard	O	N1	1/4	Time period of the carrier's standard service for the shipment
CD305	284	Service Level Code	X	ID	2/2	Level of transportation/billing service (e.g., CG = Ground; ND = Next Day Air; SC = Second Day Air).
CD306	108	Pick-up or Delivery Code	O	ID	1/2	Specifies the location or type of pickup or delivery
CD307	122	Rate/Value Qualifier	X	ID	2/2	Code qualifying how to extend charges or interpret value. Required if CD308 present.
CD308	58	Charge	X	N2	1/12	Charge for the single package. Required if CD307 present.
CD309	122	Rate/Value Qualifier	X	ID	2/2	Code qualifying how to extend charges or interpret value. Required if CD310 present.
CD310	58	Charge	X	N2	1/12	Total charge for all of the packages. Required if CD309 present.
CD311	284	Service Level Code	X	ID	2/2	Level of transportation/billing service. If present, CD305 required.
CD312	284	Service Level Code	O	ID	2/2	Level of transportation/billing service. If present, CD311 required.

Ref. Des.	Data Elem.	Name	Req.	Type	Size	Notes / Valid Values
CD313	591	Payment Method Code	O	ID	3/3	Method for the movement of payment instructions
CD314	26	Country Code	O	ID	2/3	Country where the service is to be performed. If present, CD305 required.

13. Summary and Trailer Segments

13.1 SE - Transaction Set Trailer

Usage: Summary / Position 610 / Mandatory / Max Use: 1

Purpose: Indicates the end of the transaction set and provides the segment count.

Key rules:

- SE01 includes both ST and SE segments in the count.
- SE02 must equal ST02.

Ref. Des.	Data Elem.	Name	Req.	Type	Size	Notes / Valid Values
SE01	96	Number of Included Segments	M	N0	1/10	Total count including ST and SE
SE02	329	Transaction Set Control Number	M	AN	4/9	Must equal ST02

13.2 GE - Functional Group Trailer

Usage: Envelope / Mandatory / Max Use: 1

Purpose: Indicates the end of a functional group.

Key rule: GE02 must match GS06.

Ref. Des.	Data Elem.	Name	Req.	Type	Size	Notes / Valid Values
GE01	97	Number of Transaction Sets Included	M	N0	1/6	Total transaction sets in the functional group
GE02	28	Group Control Number	M	N0	1/9	Must match GS06

13.3 IEA - Interchange Control Trailer

Usage: Envelope / Mandatory / Max Use: 1

Purpose: Defines the end of the interchange.

Ref. Des.	Data Elem.	Name	Req.	Type	Size	Notes / Valid Values
IEA01	I16	Number of Included Functional Groups	M	N0	1/5	Count of functional groups
IEA02	I12	Interchange Control Number	M	N0	9/9	Must match ISA13 exactly. Nine digits, zero-padded.

14. Appendix A - AT701 Shipment Status Codes (element 1650)

Valid values for **AT701** Shipment Status Code, per X12 004010 element 1650. Codes not listed should be reviewed with CONTAX EDI support.

Code	Meaning
A3	Shipment Returned to Shipper
A7	Refused by Consignee
A9	Shipment Damaged
AF	Carrier Departed Pick-up Location with Shipment
AG	Estimated Delivery
AH	Attempted Delivery
AI	Shipment has been Reconsigned
AJ	Tendered for Delivery
AM	Loaded on Truck
AN	Diverted to Air Carrier
AP	Delivery Not Completed
AR	Rail Arrival at Destination Intermodal Ramp
AV	Available for Delivery
B6	Estimated to Arrive at Carrier Terminal
BA	Connecting Line or Cartage Pick-up
BC	Storage in Transit
C1	Estimated to Depart Terminal Location
CA	Shipment Cancelled
CD	Carrier Departed Delivery Location
CL	Trailer Closed Out
CP	Completed Loading at Pick-up Location
D1	Completed Unloading at Delivery Location
I1	In-Gate
J1	Delivered to Connecting Line
K1	Arrived at Customs
L1	Loading

Code	Meaning
0A	Out-Gate
00	Paperwork Received - Did not Receive Shipment or Equipment
P1	Departed Terminal Location
PR	U.S. Customs Hold at In-Bond Location
R1	Received from Prior Carrier
RL	Rail Departure from Origin Intermodal Ramp
S1	Trailer Spotted at Consignee's Location
SD	Shipment Delayed
X1	Arrived at Delivery Location
X2	Estimated Date and/or Time of Arrival at Consignee's Location
X3	Arrived at Pick-up Location
X4	Arrived at Terminal Location
X5	Arrived at Delivery Location Loading Dock
X6	En Route to Delivery Location
X8	Arrived at Pick-up Location Loading Dock
XB	Shipment Acknowledged

Note: PT , VA , and VD are not valid element 1650 codes and must not be sent in AT701 . X9 is a valid AT703 (element 1652) appointment-status code only — see Appendix B — and must not be sent in AT701 .

15. Appendix B - AT703 Shipment Appointment Status Codes (element 1652)

Valid values for **AT703** Shipment Appointment Status Code, per X12 004010 element 1652.

Code	Meaning
AA	Pick-up Appointment Date and/or Time
AB	Delivery Appointment Date and/or Time
AC	Estimated Delivery Appointment Date and/or Time
ED	Deliver No Earlier Than Date and/or Time
EP	Pick-up No Earlier Than Date and/or Time
LD	Deliver No Later Than Date and/or Time
LP	Pick-up No Later Than Date and/or Time
X9	Delivery Appointment Secured on This Date and/or Time
XA	Pick-up Appointment Secured on This Date and/or Time

16. Validation Checklist

Use this checklist when validating an inbound EDI 214 file.

16.1 Envelope Validation

- **ISA** exists once per interchange.
- **ISA06** is exactly 15 characters.
- **ISA08** is exactly 15 characters.
- **ISA13** is exactly 9 digits and zero-padded.
- **ISA13** equals **IEA02**.
- **ISA15** is either **P** for production or **T** for test.
- **ISA16** differs from the element separator.
- **GS01** equals **QM**.
- **GS08** equals **004010**.
- **GS06** equals **GE02**.
- **ST01** equals **214**.
- **ST02** equals **SE02**.
- **SE01** includes both **ST** and **SE** in the segment count.

16.2 Shipment Identification Validation

- B10 is present.
- B1003 SCAC is present and 2 to 4 characters.
- At least one of B1001 or B1006 is present.
- If B1006 is present, B1005 is also present.
- If B1005 is present, B1006 is also present.
- B1001 and B1005 are not both present.
- B1002, if used, has no blanks or special characters.

16.3 Status Event Validation

- At least one **LX** loop is present for a shipment status event.
- Each **LX** loop includes **LX01**.
- Each **LX** loop includes an **AT7** segment.
- In each **AT7**, only one of **AT701** or **AT703** is present.
- If **AT701** is present, **AT702** is required.
- If **AT703** is present, **AT704** is required.
- If **AT706** is present, **AT705** is required.
- If **AT707** is present, **AT706** is required.
- **AT705** uses **CCYYMMDD**.
- **AT706** uses a valid time format.
- **AT707**, if present, is one of **CT**, **ET**, **MT**, or **PT**.
- Status dates and times are sent in **AT705** and **AT706**, not in **G62**.
- Appointment dates and times are sent in **AT705** and **AT706**, not in **G62**.
- **AT701**, if present, uses a valid element 1650 code (Appendix A).
- **AT703**, if present, uses a valid element 1652 code (Appendix B).

16.4 Party Validation

- Each **N1** party loop includes **N101**.
- **N101** uses one of the supported party roles: **BT**, **CN**, or **SH**.
- At least one of **N102** or **N103** is present.
- If **N103** is present, **N104** is required.
- If **N104** is present, **N103** is required.
- **N3**, if present, includes **N301**.
- **N402** should be provided for U.S. or Canadian city names in **N401**.
- **G61**, if present, includes **G6101** and **G6102**; if either **G6103** or **G6104** is present, the other is also present.
- **G62**, if present, carries only non-status, non-appointment dates/times.

16.5 Weight, Quantity, Exception, and Handling Validation

- If any of AT801 , AT802 , or AT803 is present, all three are present.
 - AT801 , if used, is G for Gross Weight.
 - AT802 , if used, is L for Pounds.
 - If either AT806 or AT807 is present, both are present.
 - AT806 , if used, is E for Cubic Feet.
 - Q701 is present whenever Q7 is used (Mandatory).
 - If Q702 is present, Q703 is required.
 - Q701 , if present, uses one of the valid lading exception codes.
 - AT5 , if present, contains only one of AT501 / AT503 and only one of AT502 / AT503 .
-

17. Implementation Notes for Carrier Developers

17.1 Minimum Useful Shipment Status Event

A minimally useful 214 status event generally requires:

- Valid envelope: ISA , GS , ST , SE , GE , IEA
- Shipment identity: B10
- Carrier SCAC: B1003
- Status event loop: LX
- Status details: AT7
- Status date/time: AT705 and AT706 , where available
- Location details: MS1 , where available

17.2 Recommended Reference Strategy

Use **B10** for primary shipment identification and **L11** for supplemental references.

Recommended reference usage:

Use Case	Segment	Qualifier
Carrier PRO / invoice reference in B10	B1001	Not applicable
Mutually defined alternate shipment reference	B1005 / B1006	ZZ
Bill of lading reference	Header L11	BM
Carrier PRO / invoice reference	Header L11	CN
Stop sequence number	Detail L11	QN

17.3 Date and Time Strategy

- Use `AT705` / `AT706` for the actual date and time of shipment status events.
- Use `AT705` / `AT706` for appointment dates and times.
- Use party-loop `G62` only for non-status, non-appointment date/time values.
- Include `AT707` when the time zone is known.
- When `AT707` is omitted, CONTAX treats `AT706` as local time of the status.

17.4 Appointment Strategy

Use **AT703** for appointment status codes. Do not send an appointment code in the same **AT7** segment as a shipment status code in **AT701**.

Valid appointment examples:

Appointment Scenario	AT703
Pick-up appointment date/time	AA
Delivery appointment date/time	AB
Estimated delivery appointment date/time	AC
Deliver no earlier than	ED
Pick-up no earlier than	EP
Deliver no later than	LD
Pick-up no later than	LP
Delivery appointment secured on this date/time	X9
Pick-up appointment secured on this date/time	XA

17.5 Temperature / FSMA Strategy

Use MAN for FSMA and temperature-controlled shipment tracking:

Field	Usage
MAN01	Use ZZ
MAN02	Temperature value at stop
MAN03	Temperature scale indicator: C or F

18. Scope Notes

Where CONTAX intentionally narrows the X12 004010 standard, the affected elements are listed here. These are not defects; they are documented scope decisions for this profile. If a carrier has a business need to transmit any of them, contact CONTAX EDI support before sending.

Area	Observation
Header L11	Standard defines L1103 (Description); CONTAX implements only L1101 and L1102 , so the standard rule "at least one of L1101 or L1103 " reduces to L1101 being required.
Party L11	Same as header L11 : L1103 not implemented.
Detail L11	Same as header L11 : L1103 not implemented.
N4	Standard defines N405 (Location Qualifier) and N406 (Location Identifier); CONTAX implements only N401 through N404 .
N1	Standard defines N105 (Entity Relationship Code) and N106 (Entity Identifier Code); CONTAX implements only N101 through N104 .
MS1	Standard defines MS104 through MS107 (longitude/latitude); CONTAX implements only MS101 through MS103 .
MS2	Standard defines MS203 (Equipment Type) and MS204 (Equipment Number Check Digit); CONTAX implements only MS201 and MS202 .
Small-package sub-tree	The remaining carton/package, purchase-order, and binary loops are out of scope for this profile. CD3 (positions 210 and 380) is the one exception, documented as a normal optional segment in Section 12.

19. Quick Segment Requirement Summary

Segment	Position	Required?	Primary Purpose
ISA	Envelope	Mandatory	Interchange header
GS	Envelope	Mandatory	Functional group header
ST	010	Mandatory	Transaction set header
B10	020	Mandatory	Shipment identification and SCAC
L11 header	030	Optional	Header-level references
MAN	035	Optional	FSMA / temperature tracking
K1	040	Optional	Remarks
N1	050	Mandatory (loop)	Party identification
N2	060	Optional	Additional party name
N3	070	Optional	Party street address
N4	080	Optional	Party city/state/postal/country
G61	090	Optional	Party contact
G62	100	Optional	Non-status / non-appointment dates and times
L11 party	110	Optional	Party-level references
MS3	120	Optional	Interline information
LX	130	Mandatory (loop)	Status event loop line number
AT7	140	Mandatory (loop)	Shipment status or appointment status details
MS1	143	Optional	Shipment/equipment location
MS2	146	Optional	Equipment owner and number
L11 detail	150	Optional	Detail-level references such as stop sequence
Q7	160	Optional	Lading exception information
AT5	180	Optional	Bill of lading handling requirements
AT8	200	Optional	Weight, packaging, and quantity
CD3	210 (also 380)	Optional	Small-package/parcel carton-level detail
SE	610	Mandatory	Transaction set trailer
GE	Envelope	Mandatory	Functional group trailer
IEA	Envelope	Mandatory	Interchange trailer

The remaining small-package sub-tree is out of scope for this profile. CD3 (positions 210 and 380) is documented as a normal optional segment in Section 12.