CONTAX

Shipping Technology

ANSI X12 004010 · EDI IMPLEMENTATION GUIDE

CONTAX EDI 110 - Air Freight Details and Invoice Implementation Guide

Transaction Set 110 — Air Freight Details and Invoice

Version 3.1

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Standard ANSI ASC X12, Version/Release 004010

Prepared by CONTAX, Inc.

Document Metadata

- **Author:** CONTAX, Inc.
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> **Standards note on requirement designators.** In the Transaction Set Map, the **Req.** column reflects the requirement of the **ANSI X12 004010 base standard** (M = Mandatory, O = Optional, X = Conditional/relational). The **Notes** column reflects the **CONTAX profile**: "Must Use" means CONTAX requires the segment in this air-freight-invoice profile even where the base standard leaves it Optional (a permissible profile tightening); "Used" means the segment is supported and Optional. A profile may make a base-Optional segment required, but it may never relax a base-Mandatory segment to Optional.

Purpose and Scope

This document is a developer-oriented implementation guide, aligned to the ANSI ASC X12 004010 base standard for Transaction Set 110 (Air Freight Details and Invoice).

Developer Validation Checklist

- [ ] Validate ISA/IEA control consistency: `ISA13` must be 9 digits, zero-padded, and must match `IEA02` exactly when specified.
- [ ] Validate GS/GE control consistency: `GS06` must match `GE02` when the group trailer is present.
- [ ] Validate ST/SE control consistency: `ST02` must match `SE02`.
- [ ] Validate date and time formats using the transaction rules: `CCYYMMDD` for dates and the allowed `HHMM` / `HHMMSS` variants for times.
- [ ] Use `GS01 = IA` for air freight details and invoice functional groups.
- [ ] When dimensional data is supplied, calculate dimensional weight using the guide rule and compare against actual weight for billing review.
- [ ] Ensure the mandatory loops are present: the detail `LX` loop (at least one) and, within it, the `L5` loop (at least one). The `N1` loops and the `L1` loop are optional loops; when a loop is present, its first segment (`N1`, `L1`) is mandatory.
- [ ] When `L1-14` (Declared Value) is sent, send `L1-15` (Rate/Value Qualifier), and vice versa. The same paired rule applies to `L1-02/L1-03` and `L1-17/L1-18`.
- [ ] At least one of `L1-04` (Charge), `L1-05` (Advances), or `L1-06` (Prepaid Amount) must be present in every `L1` segment.
- [ ] For multi-leg (interline) air routing, populate the `R1` carrier/airport hop pairs (`R1-06`/`R1-07`, `R1-08`/`R1-09`, etc.) as paired conditional elements.

Complete Specification Conversion

Page 1: Air Freight Details and Invoice

Air Freight Details and Invoice

ANSI X12 110 · Version 004010

Author: CONTAX, Inc. Modified: 2026-07-14 Version: 3.1 Functional Group: IA Standard: ASC X12 Release 004010

Page 2: 110 Air Freight Details and Invoice

110 Air Freight Details and Invoice

Functional Group ID = IA This specification contains the format and establishes the data contents of the Air Freight Details and Invoice Transaction Set (110) for use within the context of an Electronic Data Interchange (EDI) environment. The transaction set can be used to provide a customer with an air invoice for transportation and other charges related to shipments, including Original Invoices, Past Due Billings, Balance Due Bills, and Revisions. The CONTAX implementation follows the ANSI X12 Version 004010 base standard as the authoritative reference. Files conforming to 004010 are accepted by CONTAX.

TABLE 2.1

Pos. No.	Seg. ID	Name	Req.	Max Use	Loop / Repeat	Notes
	ISA	Interchange Control Header	M	1		Must Use
	GS	Functional Group Header	M	1		Must Use
Header						
010	ST	Transaction Set Header	M	1		Must Use
020	B3	Beginning Segment for Carrier's Invoice	M	1		Must Use
030	B3A	Invoice Type	O	1		Used
045	C2	Bank ID	O	1		Used
050	C3	Currency	O	1		Used
065	ITD	Terms of Sale/Deferred Terms of Sale	O	1		Used
075	N1	Name	M	1	N1 3	Must Use
080	N2	Additional Name Information	O	1	N1	Used
090	N3	Address Information	O	2	N1	Must Use
100	N4	Geographic Location	O	1	N1	Must Use
110	N9	Reference Identification	O	10	N1	Used
120	PER	Administrative Communications Contact	O	1	N1	Used
Detail						
010	LX	Assigned Number	M	1	LX 9999	Must Use
020	N1	Name (Shipper/Consignee)	M	1	N1 2	Must Use
030	N2	Additional Name Information	O	1	N1	Used
040	N3	Address Information	O	2	N1	Must Use
050	N4	Geographic Location	O	1	N1	Must Use
060	N9	Reference Identification	O	10	N1	Used
070	PER	Administrative Communications Contact	O	1	N1	Used

Pos. No.	Seg. ID	Name	Req.	Max Use	Loop / Repeat	Notes
085	P1	Pick-up	O	1	LX	Used
090	R1	Route Information (Air)	O	1	LX	Must Use
100	POD	Proof of Delivery	O	1	LX	Used
110	V9	Event Detail	O	1	LX	Used
125	RMT	Remittance Advice	O	10	LX	Used
130	G47	Statement Identification	O	1	LX	Used
140	NTE	Note/Special Instruction	O	10	LX	Used
150	L5	Description, Marks and Numbers	M	1	L5 4	Must Use

Page 3: Transaction Set Notes and Detail/Summary Map

Transaction Set Notes 1. The heading N1 Loop (position 075) is used only to convey entity information relevant to the debtor or for a party other than the shipper or consignee. 2. The detail N1 loop (position 020, within LX) conveys entity information for the shipper and consignee. 3. Dimensional weight = (L × W × H) ÷ 166 (inches) or ÷ 6,000 (cm). Air carriers bill the higher of actual weight or dimensional weight. Use L4 within the L5 loop. 4. Loop-level optionality (per the 004010 base standard): the heading N1 loop (075) and the detail N1 loop (020) are **optional loops** — but when a loop instance is present, its N1 segment is **mandatory**. The LX loop (010) and the L5 loop (150) are **mandatory loops**. The L1 loop (175) is an **optional loop**; when present, its L1 segment is **mandatory**.

TABLE 3.1

Pos. No.	Seg. ID	Name	Req.	Max Use	Loop / Repeat	Notes
160	L0	Line Item — Quantity and Weight	O	1	L5	Must Use
163	L4	Measurement (Dimensional Weight)	O	4	L5	Used
165	L10	Weight	O	4	L5	Must Use
167	SL1	Tariff Reference (Air Service Level)	O	1	L5	Used
175	L1	Rate and Charges	M	1	L1 30	Must Use
180	C3	Currency (charge level)	O	1	L1	Used
Summary						
015	L3	Total Weight and Charges	M	1		Must Use
020	ACS	Ancillary Charges	O	1		Used
035	NTE	Note/Special Instruction	O	5		Used
045	SE	Transaction Set Trailer	M	1		Must Use
	GE	Functional Group Trailer	M	1		Must Use
	IEA	Interchange Control Trailer	M	1		Must Use

Note on L0 (position 160): in the ANSI X12 004010 base standard the L0 segment is **Optional** within the L5 loop. The CONTAX profile requires L0 on every L5 loop instance (hence "Must Use" in the Notes column); this is a permissible profile tightening.

Page 4: ENVELOPE SEGMENTS

ENVELOPE SEGMENTS

ISA Interchange Control Header

Position: N/A Level: Not Defined Usage: Mandatory Max Use: 1 Purpose: To start and identify an interchange of one or more functional groups and interchange-related control segments. Data Element Summary

TABLE 4.1

Ref. Des.	Data Element	Name / Description	Attributes
ISA01	I01	Authorization Information Qualifier 00 No Authorization Information Present	M ID 2/2
ISA02	I02	Authorization Information — Information used for additional identification or authorization of the sender.	M AN 10/10
ISA03	I03	Security Information Qualifier 00 No Security Information Present	M ID 2/2
ISA04	I04	Security Information — Security information about the sender. Type set by ISA03.	M AN 10/10
ISA05	I05	Interchange ID Qualifier — Qualifier for the system/method of code structure used for the Interchange Sender ID.	M ID 2/2
ISA06	I06	Interchange Sender ID — Exactly 15 characters; pad with trailing spaces.	M AN 15/15
ISA07	I05	Interchange ID Qualifier — Qualifier for the system/method of code structure used for the Interchange Receiver ID.	M ID 2/2
ISA08	I07	Interchange Receiver ID — Exactly 15 characters; pad with trailing spaces.	M AN 15/15
ISA09	I08	Interchange Date — Date of the interchange in YYMMDD format.	M DT 6/6
ISA10	I09	Interchange Time — Time of the interchange in HHMM format.	M TM 4/4
ISA11	I10	Interchange Control Standards Identifier U U.S. EDI Community of ASC X12, TDCC, and UCS	M ID 1/1
ISA12	I11	Interchange Control Version Number 00401 Version 4010 (ASC X12)	M ID 5/5
ISA13	I12	Interchange Control Number — Must match IEA02. Nine digits, zero-padded.	M N0 9/9
ISA14	I13	Acknowledgment Requested 0 No Acknowledgment Requested | 1 Interchange Acknowledgment Requested	M ID 1/1
ISA15	I14	Test Indicator I Information | P Production Data | T Test Data	M ID 1/1
ISA16	I15	Component Element Separator — Delimiter for component data elements within composite data structures. Must differ from the element separator and segment terminator. Typically '>'. The '~' character must not be used as ISA16.	M AN 1/1

Page 5: GS Functional Group Header

GS Functional Group Header

Position: N/A Level: Not Defined Usage: Mandatory Max Use: 1 Purpose: To indicate the beginning of a functional group and to provide control information. Data Element Summary

TABLE 5.1

Ref. Des.	Data Element	Name / Description	Attributes
GS01	479	Functional Identifier Code IA Air Freight Details and Invoice (110)	M ID 2/2
GS02	142	Application Sender's Code — Code identifying the party sending the transmission.	M AN 2/15
GS03	124	Application Receiver's Code — Code identifying the party receiving the transmission.	M AN 2/15
GS04	373	Date — Date expressed as CCYYMMDD.	M DT 8/8
GS05	337	Time — Time in HHMM, HHMMSS, HHMMSSD, or HHMMSSDD format.	M TM 4/8
GS06	28	Group Control Number — Must match GE02.	M N0 1/9
GS07	455	Responsible Agency Code T TDCC | X ASC X12	M ID 1/2
GS08	480	Version/Release/Industry Identifier Code 004010 Draft Standards approved through October 1997	M AN 1/12

Page 6: HEADER SEGMENTS

HEADER SEGMENTS

ST Transaction Set Header

Position: 010 Level: Header Usage: Mandatory Max Use: 1 Purpose: To indicate the start of a transaction set and to assign a control number. Comments: 1. ST is the first segment of each transaction set. Data Element Summary

TABLE 6.1

Ref. Des.	Data Element	Name / Description	Attributes
ST01	143	Transaction Set Identifier Code 110 Air Freight Details and Invoice	M ID 3/3
ST02	329	Transaction Set Control Number — Unique control number within the functional group. Must match SE02.	M AN 4/9

Page 7: B3 Beginning Segment for Carrier's Invoice

B3 Beginning Segment for Carrier's Invoice

Position: 020 Level: Header Usage: Mandatory Max Use: 1 Purpose: To transmit basic data relating to the carrier's invoice. Syntax Notes: 1. If either B309 or B310 is present, then the other is required. Semantic Notes: 1. B306 is the billing date. 2. On collect freight bills, B309 will be the actual delivery date. For shipments invoiced prior to delivery, B309 will be the estimated date of delivery. 3. If B314 is used, B304 will indicate the party or parties responsible for payment of the transportation terms identified in B314. Data Element Summary

TABLE 7.1

Ref. Des.	Data Element	Name / Description	Attributes
B301	147	Shipment Qualifier — Code defining relationship of this shipment with respect to other shipments given to the carrier at the same time (e.g., B Bill of Lading for Individual Shipment | C Consolidated Shipment | M Master Bill of Lading for Assembly, Distribution and Volume Shipment). Not used in this implementation.	O ID 1/1
B302	76	Invoice Number — Identifying number assigned by issuer (Air Waybill number).	M AN 1/22
B303	145	Shipment Identification Number — Identification number assigned to the shipment by the shipper. Does not contain blanks or special characters.	O AN 1/30
B304	146	Shipment Method of Payment CC Collect | PP Prepaid (by Seller) | TP Third Party Pay	M ID 2/2
B305	188	Weight Unit Code — Code specifying the weight unit (e.g., L Pounds | K Kilograms).	O ID 1/1
B306	373	Date — Billing/invoice date expressed as CCYYMMDD.	M DT 8/8
B307	193	Net Amount Due — Total charges to be paid by the receiver expressed in the standard monetary denomination.	M N2 1/12
B308	202	Correction Indicator AR Adding Revenue | BE Billing Error | BD Balance Due Billing	O ID 2/2
B309	32	Delivery Date — Date for delivery of cargo expressed as CCYYMMDD. Required if B310 is present.	X DT 8/8
B310	374	Date/Time Qualifier — Required if B309 is present. 017 Estimated Delivery | 035 Delivered | 140 Actual	X ID 3/3
B311	140	Standard Carrier Alpha Code — IATA 2-letter or SCAC code.	M ID 2/4
B312	373	Date — Pick-up date expressed as CCYYMMDD.	O DT 8/8
B313	375	Tariff Service Code OV Rate Applies for Overnight Transportation Service | ND Rate Applies for Next Day Transportation Service | EC Rate Applies for Economy Transportation Service	O ID 2/2
B314	335	Transportation Terms Code — Incoterms code applicable to the shipment transportation responsibility.	O ID 3/3

Page 8: B3A Invoice Type

B3A Invoice Type

Position: 030 Level: Header Usage: Optional Max Use: 1 Purpose: To indicate the type of invoice and number of shipments. Semantic Notes: 1. B3A02 is the number of shipments invoiced. Data Element Summary

TABLE 8.1

Ref. Des.	Data Element	Name / Description	Attributes
B3A01	640	Transaction Type Code — Code specifying the type of transaction. Element 640 has an open code list; consult the EDI 004010 standard for the full list.	M ID 2/2
B3A02	21	Number of Shipments — Total number of shipments on this transaction.	O N0 1/5

Page 9: C2 Bank ID

C2 Bank ID

Position: 045 Level: Header Usage: Optional Max Use: 1 Purpose: To specify data required for electronic payment routing. Semantic Notes: 1. C207 is the effective payment date. Data Element Summary

TABLE 9.1

Ref. Des.	Data Element	Name / Description	Attributes
C201	8	Bank Client Code — Code identifying payee or payer.	M ID 1/1
C202	66	Identification Code Qualifier — Code designating the system/method of code structure used for Identification Code.	M ID 1/2
C203	67	Identification Code — Code identifying a party or other code.	M AN 2/80
C204	20	Client Bank Number — Federal Reserve routing code.	O AN 3/9
C205	7	Bank Account Number — ID number assigned by the bank to its client.	O AN 6/17
C206	107	Payment Method Code — Code identifying type of payment procedures.	O ID 1/2
C207	373	Date — Effective payment date expressed as CCYYMMDD.	O DT 8/8

Page 10: C3 Currency

C3 Currency

Position: 050 Level: Header Usage: Optional Max Use: 1 Purpose: To specify the currency being used in the transaction set. Semantic Notes: 1. C301 is the billing currency. 2. C303 is the payment currency. 3. C304 is the rated currency. Comments: 1. Currency is implied by the code for the country in whose currency the monetary amounts are specified. Data Element Summary

TABLE 10.1

Ref. Des.	Data Element	Name / Description	Attributes
C301	100	Currency Code — Code (Standard ISO) for the country in whose currency the charges are specified.	M ID 3/3
C302	280	Exchange Rate — Value to be used as a multiplier conversion factor to convert monetary value from one currency to another.	O R 4/10
C303	100	Currency Code — Payment currency code (ISO).	O ID 3/3
C304	100	Currency Code — Rated currency code (ISO).	O ID 3/3

Page 11: ITD Terms of Sale/Deferred Terms of Sale

ITD Terms of Sale/Deferred Terms of Sale

Position: 065 Level: Header Usage: Optional Max Use: 1 Purpose: To specify terms of sale. Syntax Notes: 1. If ITD03 (Terms Discount Percent) is present, then at least one of ITD04, ITD05, or ITD13 is required. 2. If ITD08 (Terms Discount Amount) is present, then at least one of ITD04, ITD05, or ITD13 is required. 3. If ITD09 (Terms Deferred Due Date) is present, then at least one of ITD10 or ITD11 is required. 4. If the code in ITD01 is '04', then ITD07 or ITD09 is required and either ITD10 or ITD11 is required; if the code in ITD01 is '05', then ITD06 or ITD07 is required. Data Element Summary

TABLE 11.1

Ref. Des.	Data Element	Name / Description	Attributes
ITD01	336	Terms Type Code — Code identifying type of payment terms.	O ID 2/2
ITD02	333	Terms Basis Date Code — Code identifying the beginning of the terms period.	O ID 1/2
ITD03	338	Terms Discount Percent — Terms discount percentage available if invoice paid by discount due date.	O R 1/6
ITD04	370	Terms Discount Due Date — Date payment is due to earn discount, expressed as CCYYMMDD.	X DT 8/8
ITD05	351	Terms Discount Days Due — Number of days in the terms discount period.	X N0 1/3
ITD06	446	Terms Net Due Date — Date when total invoice amount is due, expressed as CCYYMMDD.	O DT 8/8
ITD07	386	Terms Net Days — Number of days until total invoice amount is due.	O N0 1/3
ITD08	362	Terms Discount Amount — Total amount of terms discount.	O N2 1/10
ITD09	388	Terms Deferred Due Date — Date deferred payment or percent of invoice payable is due, expressed as CCYYMMDD.	O DT 8/8
ITD10	389	Deferred Amount Due — Deferred amount due for payment.	X N2 1/10
ITD11	342	Percent of Invoice Payable — Amount of invoice payable expressed in percent.	X R 1/5
ITD12	352	Description — Free-form description to clarify payment terms.	O AN 1/80
ITD13	765	Day of Month — Numeric value of the day of the month (1 to the last day of the referenced month).	X N0 1/2
ITD14	107	Payment Method Code — Code identifying type of payment procedures.	O ID 1/2
ITD15	954	Percent — Percentage (as a decimal) applied to a base amount to determine a late-payment charge.	O R 1/10

Page 12: Name (Header)

Name N1 Heading Loop N1, repeats up to 3 Position: 075 Level: Header Usage: Mandatory (within the optional N1 loop) Max Use: 1 Purpose: To identify a party by type of organization, name, and code. Used for the debtor or for a party other than the shipper or consignee. Syntax Notes: 1. At least one of N102 or N103 is required. 2. If either N103 or N104 is present, then the other is required. Semantic Notes: 1. N105 and N106 (Entity Relationship Code and Entity Identifier Code) further define the type of entity in N101; they are defined in the base standard but are not used in this CONTAX profile. Data Element Summary

TABLE 12.1

Ref. Des.	Data Element	Name / Description	Attributes
N101	98	Entity Identifier Code BT Bill-to-Party | CA Carrier | CN Consignee | SH Shipper	M ID 2/3
N102	93	Name — Free-form name.	X AN 1/60
N103	66	Identification Code Qualifier 2 Standard Carrier Alpha Code (SCAC) | 91 Assigned by Seller or Seller's Agent | 92 Assigned by Buyer or Buyer's Agent | AC Carrier Account	X ID 1/2
N104	67	Identification Code — Account number with carrier. Shipped account when N101=SH; billed account when N101=BT.	X AN 2/80

Page 13: Additional Name Information (Header)

Additional Name Information N2 Heading Loop N1 Position: 080 Level: Header Usage: Optional Max Use: 1 Purpose: To specify additional names or those longer than 35 characters. Data Element Summary

TABLE 13.1

Ref. Des.	Data Element	Name / Description	Attributes
N201	93	Name — Free-form name (continued from N102).	M AN 1/60
N202	93	Name — Free-form name (continuation line 2).	O AN 1/60

Page 14: Address Information (Header)

Address Information N3 Heading Loop N1 Position: 090 Level: Header Usage: Optional Max Use: 2 Purpose: To specify the location of the named party. Data Element Summary

TABLE 14.1

Ref. Des.	Data Element	Name / Description	Attributes
N301	166	Address Information — Address information.	M AN 1/55
N302	166	Address Information — Address information (continued).	O AN 1/55

Page 15: Geographic Location (Header)

Geographic Location N4 Heading Loop N1 Position: 100 Level: Header Usage: Optional Max Use: 1 Purpose: To specify the geographic place of the named party. Syntax Notes: 1. If N406 is present, then N405 is required. Semantic Notes: 1. A combination of either N401 through N404, or N405 and N406, may be adequate to specify a location. 2. N402 is required only if city name (N401) is in the U.S. or Canada. Data Element Summary

TABLE 15.1

Ref. Des.	Data Element	Name / Description	Attributes
N401	19	City Name — Free-form text for city name.	O AN 2/30
N402	156	State or Province Code — Standard state/province code.	O ID 2/2
N403	116	Postal Code — International postal zone code excluding punctuation and blanks.	O ID 3/15
N404	26	Country Code — Code identifying the country.	O ID 2/3
N405	309	Location Qualifier — Code identifying the type of location.	X ID 1/2
N406	310	Location Identifier — Code identifying a specific location. Requires N405.	O AN 1/30

Page 16: Reference Identification (Header)

Reference Identification N9 Heading Loop N1, max 10 Position: 110 Level: Header Usage: Optional Max Use: 10 Purpose: To transmit identifying information as specified by the Reference Identification Qualifier. Syntax Notes: 1. At least one of N902 or N903 is required. 2. If N906 is present, then N905 is required. Semantic Notes: 1. When N901 = SCA, N902 contains the Standard Carrier Alpha Code (SCAC) of the interline carrier. This must be sent for third-party logistics providers. 2. N906 reflects the time zone that N905 reflects. Comments: 1. Accepted N901 qualifier codes include: AW Air Waybill Number | CR Customer Reference Number | SI Shipper's Identifying Number | SCA Standard Carrier Alpha Code. Any valid 004010 element 128 qualifier is accepted. 2. The base standard also defines a seventh element, N907 (composite C040, Reference Identifier); it is not used in this CONTAX profile. Data Element Summary

TABLE 16.1

Ref. Des.	Data Element	Name / Description	Attributes
N901	128	Reference Identification Qualifier — Any valid 004010 element 128 qualifier is accepted.	M ID 2/3
N902	127	Reference Identification — Reference information as specified by the qualifier.	X AN 1/30
N903	369	Free-form Description — Free-form descriptive text related to the reference.	X AN 1/45
N904	373	Date — Date associated with the reference, expressed as CCYYMMDD.	O DT 8/8
N905	337	Time — Time associated with the reference (HHMM to HHMMSSDD).	X TM 4/8
N906	623	Time Code — Time zone that N905 reflects. Requires N905.	O ID 2/2

Page 17: Administrative Communications Contact (Header)

Administrative Communications Contact PER Heading Loop N1 Position: 120 Level: Header Usage: Optional Max Use: 1 Purpose: To identify a person or office to whom administrative communications should be directed (e.g., a billing or accounts-payable contact for the party named in the N1 loop). Syntax Notes: 1. If either PER03 or PER04 is present, then the other is required. 2. If either PER05 or PER06 is present, then the other is required. 3. If either PER07 or PER08 is present, then the other is required. Comments: 1. In a typical air-invoice usage, CONTAX populates PER01 with the contact function, PER02 with the contact name, and one PER03/PER04 communication pair (e.g., TE Telephone or EM Electronic Mail). Data Element Summary

TABLE 17.1

Ref. Des.	Data Element	Name / Description	Attributes
PER01	366	Contact Function Code — Code identifying the major duty or responsibility of the person or group named.	M ID 2/2
PER02	93	Name — Free-form name.	O AN 1/60
PER03	365	Communication Number Qualifier — Code identifying the type of communication number.	X ID 2/2
PER04	364	Communication Number — Complete communications number including country/area code when applicable.	X AN 1/80
PER05	365	Communication Number Qualifier — Code identifying the type of communication number.	X ID 2/2
PER06	364	Communication Number — Complete communications number including country/area code when applicable.	X AN 1/80
PER07	365	Communication Number Qualifier — Code identifying the type of communication number.	X ID 2/2
PER08	364	Communication Number — Complete communications number including country/area code when applicable.	X AN 1/80
PER09	443	Contact Inquiry Reference — Additional reference number or description to clarify a contact number.	O AN 1/20

Page 18: DETAIL SEGMENTS

DETAIL SEGMENTS

Assigned Number LX Loop LX, repeats up to 9999 Position: 010 Level: Detail Usage: Mandatory Max Use: 1 Purpose: To reference a line number in a transaction set. Data Element Summary

TABLE 18.1

Ref. Des.	Data Element	Name / Description	Attributes
LX01	554	Assigned Number — Number assigned for differentiation within a transaction set. Increment by 1 starting at 1.	M N0 1/6

Page 19: Name (Detail)

Name N1 Detail Loop N1, repeats up to 2 — shipper and consignee Position: 020 Level: Detail Usage: Mandatory (within the optional N1 loop) Max Use: 1 Purpose: To identify a party by type of organization, name, and code. Used to convey entity information relevant to the shipper and consignee. Syntax Notes: 1. At least one of N102 or N103 is required. 2. If either N103 or N104 is present, then the other is required. Semantic Notes: 1. N105 and N106 (Entity Relationship Code and Entity Identifier Code) are defined in the base standard but are not used in this CONTAX profile. Data Element Summary

TABLE 19.1

Ref. Des.	Data Element	Name / Description	Attributes
N101	98	Entity Identifier Code BT Bill-to-Party | SF Ship From | ST Ship To	M ID 2/3
N102	93	Name — Free-form name.	X AN 1/60
N103	66	Identification Code Qualifier — Code designating the system/method of code structure used for the Identification Code.	X ID 1/2
N104	67	Identification Code — Code identifying a party or other code. Requires N103.	X AN 2/80

Page 20: Additional Name Information (Detail)

Additional Name Information N2 Detail Loop N1 Position: 030 Level: Detail Usage: Optional Max Use: 1 Purpose: To specify additional names or those longer than 35 characters. Data Element Summary

TABLE 20.1

Ref. Des.	Data Element	Name / Description	Attributes
N201	93	Name — Free-form name (continued from N102).	M AN 1/60
N202	93	Name — Free-form name (continuation line 2).	O AN 1/60

Page 21: Address Information (Detail)

Address Information N3 Detail Loop N1 Position: 040 Level: Detail Usage: Optional Max Use: 2 Purpose: To specify the location of the named party. Data Element Summary

TABLE 21.1

Ref. Des.	Data Element	Name / Description	Attributes
N301	166	Address Information — Address information.	M AN 1/55
N302	166	Address Information — Address information (continued).	O AN 1/55

Page 22: Geographic Location (Detail)

Geographic Location N4 Detail Loop N1 Position: 050 Level: Detail Usage: Optional Max Use: 1 Purpose: To specify the geographic place of the named party. Syntax Notes: 1. If N406 is present, then N405 is required. Semantic Notes: 1. N402 is required only if city name (N401) is in the U.S. or Canada. Data Element Summary

TABLE 22.1

Ref. Des.	Data Element	Name / Description	Attributes
N401	19	City Name — Free-form text for city name.	O AN 2/30
N402	156	State or Province Code — Standard state/province code.	O ID 2/2
N403	116	Postal Code — International postal zone code.	O ID 3/15
N404	26	Country Code — Code identifying the country.	O ID 2/3
N405	309	Location Qualifier — Code identifying the type of location.	X ID 1/2
N406	310	Location Identifier — Code identifying a specific location. Requires N405.	O AN 1/30

Page 23: Reference Identification (Detail)

Reference Identification N9 Detail Loop N1, max 10 Position: 060 Level: Detail Usage: Optional Max Use: 10 Purpose: To transmit identifying information as specified by the Reference Identification Qualifier. Syntax Notes: 1. At least one of N902 or N903 is required. 2. If N906 is present, then N905 is required. Comments: 1. The base standard also defines N907 (composite C040, Reference Identifier); it is not used in this CONTAX profile. Data Element Summary

TABLE 23.1

Ref. Des.	Data Element	Name / Description	Attributes
N901	128	Reference Identification Qualifier — Any valid 004010 element 128 qualifier is accepted.	M ID 2/3
N902	127	Reference Identification — Reference information as specified by the qualifier.	X AN 1/30
N903	369	Free-form Description — Free-form descriptive text related to the reference.	X AN 1/45
N904	373	Date — Date associated with the reference, expressed as CCYYMMDD.	O DT 8/8
N905	337	Time — Time associated with the reference (HHMM to HHMMSSDD).	X TM 4/8
N906	623	Time Code — Time zone that N905 reflects. Requires N905.	O ID 2/2

Page 24: Administrative Communications Contact (Detail)

Administrative Communications Contact PER Detail Loop N1 Position: 070 Level: Detail Usage: Optional Max Use: 1 Purpose: To identify a person or office (e.g., shipper or consignee contact) to whom administrative communications should be directed. Syntax Notes: 1. If either PER03 or PER04 is present, then the other is required. 2. If either PER05 or PER06 is present, then the other is required. 3. If either PER07 or PER08 is present, then the other is required. Data Element Summary

TABLE 24.1

Ref. Des.	Data Element	Name / Description	Attributes
PER01	366	Contact Function Code — Code identifying the major duty or responsibility of the person or group named.	M ID 2/2
PER02	93	Name — Free-form name.	O AN 1/60
PER03	365	Communication Number Qualifier — Code identifying the type of communication number.	X ID 2/2
PER04	364	Communication Number — Complete communications number including country/area code when applicable.	X AN 1/80
PER05	365	Communication Number Qualifier — Code identifying the type of communication number.	X ID 2/2
PER06	364	Communication Number — Complete communications number including country/area code when applicable.	X AN 1/80
PER07	365	Communication Number Qualifier — Code identifying the type of communication number.	X ID 2/2
PER08	364	Communication Number — Complete communications number including country/area code when applicable.	X AN 1/80
PER09	443	Contact Inquiry Reference — Additional reference number or description to clarify a contact number.	O AN 1/20

Page 25: Pick-up

Pick-up P1 Loop LX Position: 085 Level: Detail Usage: Optional Max Use: 1 Purpose: To specify the pick-up details including time, date, and equipment. Semantic Notes: 1. P103 is the pick-up date qualifier. 2. P107 is the number of shipments tendered. Data Element Summary

TABLE 25.1

Ref. Des.	Data Element	Name / Description	Attributes
P101	108	Pick-up or Delivery Code — Code specifying the location or type of pickup or delivery.	O ID 1/2
P102	109	Pick-Up Date — Date the carrier picks up the shipment from the shipper or supplier expressed as CCYYMMDD.	M DT 8/8
P103	374	Date/Time Qualifier 011 Shipped	M ID 3/3
P104	111	Pick-Up Time — Time (HHMM) that the carrier is to pick up the shipment.	O TM 4/4
P105	206	Equipment Initial — Prefix or alphabetic part of an equipment unit's identifying number.	O AN 1/4
P106	207	Equipment Number — Sequencing or serial part of an equipment unit's identifying number.	O AN 1/10
P107	21	Number of Shipments — Total number of shipments tendered on this transaction.	O N0 1/5

Page 26: Route Information (Air)

Route Information (Air) R1 Loop LX Position: 090 Level: Detail Usage: Optional Max Use: 1 Purpose: To specify airline and airport routing sequences. Syntax Notes: 1. If either R106 or R107 is present, then the other is required. 2. If either R108 or R109 is present, then the other is required. 3. If either R110 or R111 is present, then the other is required. 4. If either R112 or R113 is present, then the other is required. Semantic Notes: 1. R101 and R102 are optional SCAC fields identifying carriers associated with the route. 2. The routing is expressed as an origin airport (R103) followed by up to five air-carrier/airport hop pairs: R104/R105, R106/R107, R108/R109, R110/R111, and R112/R113. This supports multi-leg interline air routing. Air carrier codes are IATA 2-character codes (transmitted 3/3); airport codes are IATA 3-letter codes (transmitted 3/5). Comments: 1. There is no flight/voyage number element in R1. When a flight number must be conveyed, use an N9 reference at position 060 or a V9 event, per trading-partner agreement. Data Element Summary

TABLE 26.1

Ref. Des.	Data Element	Name / Description	Attributes
R101	140	Standard Carrier Alpha Code — SCAC of the origin or primary carrier on this routing.	O ID 2/4
R102	140	Standard Carrier Alpha Code — SCAC of a secondary or interline carrier.	O ID 2/4
R103	5	Airport Code — IATA code for the origin airport.	M ID 3/5
R104	4	Air Carrier Code — IATA code for the air carrier of the first hop.	M ID 3/3
R105	5	Airport Code — IATA code for the destination airport of the first hop.	M ID 3/5
R106	4	Air Carrier Code — IATA code for the air carrier of the second hop. Requires R107.	X ID 3/3
R107	5	Airport Code — IATA code for the destination airport of the second hop. Requires R106.	X ID 3/5
R108	4	Air Carrier Code — IATA code for the air carrier of the third hop. Requires R109.	X ID 3/3
R109	5	Airport Code — IATA code for the destination airport of the third hop. Requires R108.	X ID 3/5
R110	4	Air Carrier Code — IATA code for the air carrier of the fourth hop. Requires R111.	X ID 3/3
R111	5	Airport Code — IATA code for the destination airport of the fourth hop. Requires R110.	X ID 3/5
R112	4	Air Carrier Code — IATA code for the air carrier of the fifth hop. Requires R113.	X ID 3/3
R113	5	Airport Code — IATA code for the destination airport of the fifth hop. Requires R112.	X ID 3/5

Page 27: Proof of Delivery

Proof of Delivery POD Loop LX Position: 100 Level: Detail Usage: Optional Max Use: 1 Purpose: To provide proof of delivery details for the shipment. Data Element Summary

TABLE 27.1

Ref. Des.	Data Element	Name / Description	Attributes
POD01	373	Date — Delivery date expressed as CCYYMMDD.	M DT 8/8
POD02	337	Time — Delivery time in HHMM to HHMMSSDD format.	O TM 4/8
POD03	93	Name — Free-form name of the person who signed for the delivery.	M AN 1/60

Page 28: Event Detail

Event Detail V9 Loop LX Position: 110 Level: Detail Usage: Optional Max Use: 1 Purpose: To specify information about a specific shipment event. Semantic Notes: 1. V903 is the event date. 2. V904 is the event time. Data Element Summary

TABLE 28.1

Ref. Des.	Data Element	Name / Description	Attributes
V901	304	Event Code — Code identifying the event about which a report is made.	M ID 3/3
V902	106	Event — Free-form description of event.	O AN 1/25
V903	373	Date — Event date expressed as CCYYMMDD.	O DT 8/8
V904	337	Time — Event time in HHMM to HHMMSSDD format. Conditionally required if V913 (Time Code) is present (C1304).	X TM 4/8

Note: this profile implements only V901–V904 of the V9 segment. The full V9 segment in the 004010 base standard runs to V920 (city/state/country, status reason, SPLC, delay quantity, equipment counts, weight, length); those elements are not used in this CONTAX profile.

Page 29: Remittance Advice

Remittance Advice RMT Loop LX, max 10 Position: 125 Level: Detail Usage: Optional Max Use: 10 Purpose: To indicate the detail on items being remitted/settled against the invoiced line item. Syntax Notes: 1. Trading partners should agree on the content of RMT01 and RMT02 prior to exchange. Semantic Notes: 1. RMT03 may be used to specify the amount paid when different from the amount invoiced. 2. RMT04 is the amount of invoice (including charges, less allowances) before terms discount, or the debit/credit amount of referenced items. 3. RMT05 is the amount upon which the terms discount is calculated. 4. RMT06 is the amount due if paid by the terms discount due date. 5. RMT07 is the amount of discount taken. 6. RMT08 is any amount deducted or added for reasons other than payment discount (e.g., damaged goods, short shipment, tax, penalty, late charge). Data Element Summary

TABLE 29.1

Ref. Des.	Data Element	Name / Description	Attributes
RMT01	128	Reference Identification Qualifier — Code qualifying the Reference Identification.	M ID 2/3
RMT02	127	Reference Identification — Reference information as specified by the qualifier.	M AN 1/30
RMT03	782	Monetary Amount — Amount paid (when different from amount invoiced).	O R 1/18
RMT04	782	Monetary Amount — Amount of invoice before terms discount, or debit/credit amount of referenced items.	O R 1/18
RMT05	782	Monetary Amount — Amount on which the terms discount is calculated.	O R 1/18
RMT06	782	Monetary Amount — Amount due if paid by the terms discount due date.	O R 1/18
RMT07	782	Monetary Amount — Amount of discount taken.	O R 1/18
RMT08	782	Monetary Amount — Adjustment amount for reasons other than payment discount.	O R 1/18
RMT09	426	Adjustment Reason Code — Code indicating reason for debit/credit memo or adjustment.	O ID 2/2
RMT10	352	Description — Free-form description to clarify the related data elements.	O AN 1/80

Page 30: Statement Identification

Statement Identification G47 Loop LX Position: 130 Level: Detail Usage: Optional Max Use: 1 Purpose: To transmit identifying numbers, dates, and other basic data relating to the statement (used when the invoice line is associated with a consolidated statement of charges). Data Element Summary

TABLE 30.1

Ref. Des.	Data Element	Name / Description	Attributes
G4701	373	Date — Statement date expressed as CCYYMMDD.	M DT 8/8
G4702	613	Statement Number — Identifying number for the statement assigned by the issuer for charges.	M AN 1/16

Page 31: Note/Special Instruction (Detail)

Note/Special Instruction NTE Loop LX, max 10 Position: 140 Level: Detail Usage: Optional Max Use: 10 Purpose: To transmit information in a free-form format for comment or special instruction relating to the line item. Data Element Summary

TABLE 31.1

Ref. Des.	Data Element	Name / Description	Attributes
NTE01	363	Note Reference Code — Code identifying the functional area or purpose for which the note applies.	O ID 3/3
NTE02	352	Description — A free-form description to clarify the related data elements and their content.	M AN 1/80

Page 32: Description, Marks and Numbers

Description, Marks and Numbers L5 Loop L5, repeats up to 4 Position: 150 Level: Detail Usage: Mandatory Max Use: 1 Purpose: To specify the line item in terms of description, quantity, packaging, and marks and numbers. Syntax Notes: 1. If either L503 or L504 is present, then the other is required. Semantic Notes: 1. L502 may be used to send quantity information as part of the product description. Comments: 1. The base standard also defines L506 (Marks and Numbers, elem 87), L507 (Marks and Numbers Qualifier, elem 88), L508/L509 (a second Commodity Code Qualifier/Commodity Code pair, elems 23/22), and L510 (Compartment ID Code, elem 595); these are not used in this CONTAX profile. Data Element Summary

TABLE 32.1

Ref. Des.	Data Element	Name / Description	Attributes
L501	213	Lading Line Item Number — Sequential line number for a lading item.	O N0 1/3
L502	79	Lading Description — Description of an item as required for rating and billing purposes.	O AN 1/50
L503	22	Commodity Code — Code describing a commodity or group of commodities.	X AN 1/30
L504	23	Commodity Code Qualifier — Code identifying the commodity coding system used for Commodity Code.	X ID 1/1
L505	103	Packaging Code — Code identifying the type of packaging. Part 1: Packaging Form; Part 2: Packaging Material. If used, Part 1 is always required.	O AN 3/5

Page 33: Line Item — Quantity and Weight

Line Item — Quantity and Weight L0 Loop L5 Position: 160 Level: Detail Usage: Optional (base standard); required in the CONTAX profile Max Use: 1 Purpose: To specify quantity, weight, volume, and type of service for a line item including applicable quantity/rate-as data. Syntax Notes: 1. If either L002 or L003 is present, then the other is required. 2. If either L004 or L005 is present, then the other is required. 3. If either L006 or L007 is present, then the other is required. 4. If either L008 or L009 is present, then the other is required. 5. If L011 is present, then L004 is required. Semantic Notes: 1. L008 is the number of handling units of the line item tendered to the carrier. Comments: 1. The base standard also defines L010 (Dunnage Description, elem 458), L012 (Type of Service Code, elem 56), L013 (Quantity, elem 380), L014 (Packaging Form Code, elem 211), and L015 (Yes/No Condition or Response Code, elem 1073); these are not used in this CONTAX profile. Data Element Summary

TABLE 33.1

Ref. Des.	Data Element	Name / Description	Attributes
L001	213	Lading Line Item Number — Sequential line number.	O N0 1/3
L002	220	Billed/Rated-as Quantity — Basis for rating (miles, value, volume, etc.).	X R 1/11
L003	221	Billed/Rated-as Qualifier — Code identifying the type of quantity or value on which the rate is based.	X ID 2/2
L004	81	Weight — Numeric value of weight.	X R 1/10
L005	187	Weight Qualifier B Billed Weight | G Gross Weight	X ID 1/2
L006	183	Volume — Value of volumetric measure.	X R 1/8
L007	184	Volume Unit Qualifier E Cubic Feet | X Cubic Meters	X ID 1/1
L008	80	Lading Quantity — Number of units (pieces) of the lading commodity.	X N0 1/7
L009	211	Packaging Form Code BDL Bundle | BOX Box | CAS Case | CTN Carton | PCS Pieces | PLT Pallet | ROL Roll | SKD Skid	X ID 3/3
L011	188	Weight Unit Code K Kilograms	O ID 1/1

Page 34: Measurement (Dimensional Weight)

Measurement (Dimensional Weight) L4 Loop L5, max 4 Position: 163 Level: Detail Usage: Optional Max Use: 4 Purpose: To describe physical dimensions of a package. Dimensional weight = (L × W × H) ÷ 166 (inches) or ÷ 6,000 (cm). The carrier bills the higher of actual weight or dimensional weight. Semantic Notes: 1. L401 is the length, L402 is the width, L403 is the height of the package. 2. L404 specifies the unit of linear measure used for all three dimensions. Data Element Summary

TABLE 34.1

Ref. Des.	Data Element	Name / Description	Attributes
L401	82	Length — Largest horizontal dimension of the package when upright.	M R 1/8
L402	189	Width — Shorter horizontal dimension of the package when upright.	M R 1/8
L403	65	Height — Vertical dimension of the package when upright.	M R 1/8
L404	90	Measurement Unit Qualifier CM Centimeters | FT Feet | IN Inches	M ID 1/1
L405	380	Quantity — Numeric value of quantity.	O R 1/15
L406	1271	Industry Code — Code from a specific industry code list. L406 is the rounding pattern for dimensional shipments.	O AN 1/30

Page 35: Weight

Weight L10 Loop L5, max 4 Position: 165 Level: Detail Usage: Optional Max Use: 4 Purpose: To transmit additional weight information for a line item. Data Element Summary

TABLE 35.1

Ref. Des.	Data Element	Name / Description	Attributes
L1001	81	Weight — Numeric value of weight.	M R 1/10
L1002	187	Weight Qualifier B Billed Weight | G Gross Weight	M ID 1/2
L1003	188	Weight Unit Code K Kilograms	O ID 1/1

Page 36: Tariff Reference (Air Service Level)

Tariff Reference (Air Service Level) SL1 Loop L5 Position: 167 Level: Detail Usage: Optional Max Use: 1 Purpose: To reference details of the tariff and service level used to arrive at applicable rates or charges for the air shipment. Syntax Notes: 1. At least one of SL103 or SL104 is required. Semantic Notes: 1. SL101 is the service level requested by the customer (e.g., overnight, second day, next-flight-out). Comments: 1. The base standard also defines SL105 (Date/effective date, elem 373), SL106 (Service Level Code provided by the carrier, elem 284), SL107 (Shipment Method of Payment, elem 146), SL108 (Data Source Code, elem 982), and SL109 (International/Domestic Code, elem 210); these are not used in this CONTAX profile. Data Element Summary

TABLE 36.1

Ref. Des.	Data Element	Name / Description	Attributes
SL101	284	Service Level Code SC Second Day Air | D3 Delivery scheduled third day by cartage agent | CG Ground | ND Next Day Air | NF Next Flight Out | SD Saturday | ON Overnight	M ID 2/2
SL102	171	Tariff Number — Standard tariff number governing the rates applied to the commodity.	O AN 1/7
SL103	22	Commodity Code — Code describing a commodity or group of commodities.	X AN 1/30
SL104	320	Scale — A carrier-maintained reference used to further identify a schedule of rates within a tariff.	X AN 1/10

Note: the code values shown for SL101 above are the CONTAX-selected subset of the full element 284 code list. Any valid element 284 code beyond this illustrative subset is also accepted; confirm carrier-specific service names with CONTAX EDI Support if a mapping is needed.

Page 37: Rate and Charges

Rate and Charges L1 Loop L1, repeats up to 30 Position: 175 Level: Detail Usage: Mandatory (within the optional L1 loop) Max Use: 1 Purpose: To specify rate and charges detail relative to a line item including freight charges, advances, special charges, and entitlements. Syntax Notes: 1. At least one of L104, L105, or L106 is required. 2. If either L102 or L103 is present, then the other is required. 3. If either L114 or L115 is present, then the other is required. 4. If either L117 or L118 is present, then the other is required. Semantic Notes: 1. L119 is the percent used to determine the charge in L104. 2. L120, if used, indicates the currency for all monetary amounts in this L1 segment. 3. L121 is the origin rated-as charge amount. Data Element Summary

TABLE 37.1

Ref. Des.	Data Element	Name / Description	Attributes
L101	213	Lading Line Item Number — Sequential line number for a lading item.	O N0 1/3
L102	60	Freight Rate — Rate that applies to the specific commodity. Requires L103.	X R 1/9
L103	122	Rate/Value Qualifier — Code qualifying how to extend charges or interpret value. See Appendix A. Requires L102.	X ID 2/2
L104	58	Charge — Freight or special charge for a line item; total charges for the invoice. Expressed in the standard monetary denomination for the currency specified.	X N2 1/12
L105	191	Advances — Incidental charges occurring during transportation paid by the carrier on the customer's behalf (e.g., stop charges, diversion/reconsignment, icing).	X N2 1/9
L106	117	Prepaid Amount — Money paid at point of origin (usually by shipper) in the standard monetary denomination.	X N2 1/9
L107	120	Rate Combination Point Code — Code denoting the connecting station for a joint rate obtained by combining two or more published rates.	O AN 3/9
L108	150	Special Charge or Allowance Code — Code identifying type of special charge or allowance. See Appendix B for common air codes. Any valid 004010 element 150 code is accepted.	O ID 3/3
L109	121	Rate Class Code — Code identifying a specifically designated class of goods (for international air, see IATA Resolution 600k).	O ID 1/3
L110	39	Entitlement Code — Code identifying the entitlement party.	O ID 1/1
L111	16	Charge Method of Payment — Code defining the method of payment.	O ID 1/1
L112	276	Special Charge Description — Identification of a special charge; used whenever an applicable L108 code cannot be found.	O AN 2/25
L113	257	Tariff Application Code — Code indicating to which traffic a tariff applies.	O ID 1/1
L114	74	Declared Value — Monetary assigned value expressed in the standard monetary denomination. Used for cargo insurance and declared value charges. Requires L115.	X N2 2/12
L115	122	Rate/Value Qualifier — Code qualifying the declared value (e.g., AV Ad Valorum (Per Cent of Value)). Requires L114.	X ID 2/2
L116	372	Lading Liability Code — Code identifying limits of liability.	O ID 1/1
L117	220	Billed/Rated-as Quantity — Basis for rating (miles, value, volume, etc.). Requires L118.	X R 1/11

Ref. Des.	Data Element	Name / Description	Attributes
L118	221	Billed/Rated-as Qualifier — Code identifying the type of quantity or value on which the rate is based. Requires L117.	X ID 2/2
L119	954	Percent — Percentage (expressed as a decimal) used to determine the charge in L104.	O R 1/10
L120	100	Currency Code — Code (Standard ISO) for the currency of all monetary amounts in this L1 segment.	O ID 3/3
L121	610	Amount — Origin rated-as charge amount (monetary amount).	O N2 1/15

Page 38: Currency (Charge Level)

Currency C3 Within L1 Loop — charge-level currency Position: 180 Level: Detail Usage: Optional Max Use: 1 Purpose: To specify the currency for the charges in this L1 segment when different from the transaction-level currency. Semantic Notes: 1. C301 is the billing currency for this specific charge line. 2. C303 is the payment currency for this specific charge line. Data Element Summary

TABLE 38.1

Ref. Des.	Data Element	Name / Description	Attributes
C301	100	Currency Code — Code (Standard ISO) for the currency of this charge.	M ID 3/3
C302	280	Exchange Rate — Multiplier conversion factor to convert from this currency to the transaction currency.	O R 4/10
C303	100	Currency Code — Payment currency code (ISO) for this charge.	O ID 3/3
C304	100	Currency Code — Rated currency code (ISO) for this charge.	O ID 3/3

Page 39: SUMMARY SEGMENTS

SUMMARY SEGMENTS

L3 Total Weight and Charges

Position: 015 Level: Summary Usage: Mandatory Max Use: 1 Purpose: To specify the total shipment in terms of weight, volume, rates, charges, advances, and prepaid amounts applicable to one or more line items. Syntax Notes: 1. If either L301 or L302 is present, then the other is required. 2. If either L303 or L304 is present, then the other is required. 3. If either L309 or L310 is present, then the other is required. 4. If either L314 or L315 is present, then the other is required. 5. If L312 is present, then L301 is required. Semantic Notes: 1. L305 is the total charges. Data Element Summary

TABLE 39.1

Ref. Des.	Data Element	Name / Description	Attributes
L301	81	Weight — Numeric value of total shipment weight.	X R 1/10
L302	187	Weight Qualifier B Billed Weight | G Gross Weight	X ID 1/2
L303	60	Freight Rate — Total freight rate applied.	X R 1/9
L304	122	Rate/Value Qualifier — Code qualifying the total freight rate.	X ID 2/2
L305	58	Charge — Total charges expressed in the standard monetary denomination.	O N2 1/12
L306	191	Advances — Total incidental charges occurring during transportation.	O N2 1/9
L307	117	Prepaid Amount — Total money paid at point of origin (usually by shipper).	O N2 1/9
L308	150	Special Charge or Allowance Code — Code identifying type of special charge or allowance.	O ID 3/3
L309	183	Volume — Value of volumetric measure.	X R 1/8
L310	184	Volume Unit Qualifier E Cubic Feet | X Cubic Meters	X ID 1/1
L311	80	Lading Quantity — Number of units (pieces) of the lading commodity.	O N0 1/7
L312	188	Weight Unit Code K Kilograms	O ID 1/1
L313	171	Tariff Number — Standard tariff number governing the rates applied.	O AN 1/7
L314	74	Declared Value — Monetary assigned value for the total shipment in the standard monetary denomination.	X N2 2/12
L315	122	Rate/Value Qualifier — Code qualifying the declared value (e.g., AV Ad Valorum (Per Cent of Value)). Required if L314 is present.	X ID 2/2

Page 40: Ancillary Charges

ACS Ancillary Charges

Position: 020 Level: Summary Usage: Optional Max Use: 1 Purpose: To identify additional charges and payment terms for shipment charges that may or may not be directly related to a line item (e.g., a shipment-level fuel or security surcharge). Semantic Notes: 1. ACS01 for a line item is the freight or special charge; for the total invoice it is the total charges — expressed in the standard monetary denomination for the currency specified. 2. If ACS02 contains "999" (Other), then ACS03 is required to identify the charge. Data Element Summary

TABLE 40.1

Ref. Des.	Data Element	Name / Description	Attributes
ACS01	610	Amount — Monetary amount of the ancillary charge.	M N2 1/15
ACS02	150	Special Charge or Allowance Code — Code identifying type of special charge or allowance. See Appendix B.	M ID 3/3
ACS03	352	Description — Free-form description to clarify the charge (required when ACS02 = 999).	O AN 1/80
ACS04	146	Shipment Method of Payment — Code identifying payment terms for transportation charges.	O ID 2/2

Page 41: Note/Special Instruction (Summary)

NTE Note/Special Instruction

Position: 035 Level: Summary Usage: Optional Max Use: 5 Purpose: To transmit information in a free-form format for comment or special instruction applying to the invoice/shipment as a whole (distinct from the detail-level NTE at position 140, which applies to a specific line item). Data Element Summary

TABLE 41.1

Ref. Des.	Data Element	Name / Description	Attributes
NTE01	363	Note Reference Code — Code identifying the functional area or purpose for which the note applies.	O ID 3/3
NTE02	352	Description — A free-form description to clarify the related data elements and their content.	M AN 1/80

Page 42: SE Transaction Set Trailer

SE Transaction Set Trailer

Position: 045 Level: Summary Usage: Mandatory Max Use: 1 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). Comments: 1. SE is the last segment of each transaction set. Data Element Summary

TABLE 42.1

Ref. Des.	Data Element	Name / Description	Attributes
SE01	96	Number of Included Segments — Total number of segments included in a transaction set including ST and SE segments.	M N0 1/10
SE02	329	Transaction Set Control Number — Must be unique within the functional group. Must match ST02.	M AN 4/9

Page 43: ENVELOPE TRAILER SEGMENTS

ENVELOPE TRAILER SEGMENTS

GE Functional Group Trailer

Position: N/A Level: Not Defined Usage: Mandatory Max Use: 1 Purpose: To indicate the end of a functional group and to provide control information. Syntax Notes: 1. The data interchange control number GE02 must be identical to GS06. Data Element Summary

TABLE 43.1

Ref. Des.	Data Element	Name / Description	Attributes
GE01	97	Number of Transaction Sets Included — Total number of transaction sets included in the functional group.	M N0 1/6
GE02	28	Group Control Number — Must match GS06.	M N0 1/9

Page 44: IEA Interchange Control Trailer

IEA Interchange Control Trailer

Position: N/A Level: Not Defined Usage: Mandatory Max Use: 1 Purpose: To define the end of an interchange of one or more functional groups and interchange-related control segments. Data Element Summary

TABLE 44.1

Ref. Des.	Data Element	Name / Description	Attributes
IEA01	I16	Number of Included Functional Groups — A count of the number of functional groups included in a transmission.	M N0 1/5
IEA02	I12	Interchange Control Number — Must match ISA13 exactly. Nine digits, zero-padded.	M N0 9/9

Page 45: Appendix A — Rate/Value Qualifier Codes (L103)

Appendix A — Rate/Value Qualifier Codes (L103) The following Rate/Value Qualifier codes are used in L103 for air freight charges. Any valid 004010 element 122 qualifier is accepted.

TABLE 45.1

Code	Description
BL	Bill of Lading Declared Value
CM	Per Cubic Meter
CO	Cost per Unit
CW	Per Hundred Weight
FC	Flat Charge
FF	Percent of Tariff Rate
FR	Flat Rate
KG	Per Kilograms
KP	Per Kilometer
LB	Per Pound
LF	Per Loaded 436L Pallet
MN	Minimum
PD	Per Day
PH	Per Hundred (of Basic Unit)
PM	Per Mile
PP	Per Piece
PR	Per Hour
PW	Percentage of Charges
RB	Rate per Hundred
SP	Per Stop
VM	Volume
WM	Weight or Measurement

Note: if a rate basis is needed that has no corresponding code above (e.g., a carrier-specific "chargeable weight" basis), use a mutually-defined or CONTAX-specific extension, since the base standard does not define one.

Page 46: Appendix B — Special Charge or Allowance Codes (L108)

Appendix B — Special Charge or Allowance Codes (L108) The following codes are commonly used for L108 (Special Charge or Allowance Code) in air freight. The 004010 element 150 code list is open — any valid code not listed here is also accepted. When an applicable code cannot be found, use L112 (Special Charge Description) for free-form text. These codes also apply to ACS02 (Ancillary Charges) and L308 (L3 total-level special charge).

TABLE 46.1

Code	Description
405	Fuel Surcharge
520	Oversized Premium
550	Preparation of Air Waybill - Origin
COD	COD Amount
DGS	Dangerous Goods Surcharge
DOC	Documentation Charge
DSC	Discount
HAZ	Hazardous Cargo Charge
MSG	Miscellaneous Charge
SAC	Service Charge (with Cash Discount)
SSF	Single Shipment Fee
STC	State Surcharge
STO	Stowage Charge
WAR	War Risk Surcharge

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