



Department
of
Defense

DoD
Transportation
Electronic
Business (DTEB)
Convention

ASC X12 Transaction Set 858
Shipment Information
(Version 004010) – DoD Vendor
Shipment Information

VERSION 1

July 2011



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Section 1.0

INTRODUCTION

This implementation convention (IC) describes the standard or convention the Department of Defense will use to process Transportation Control and Movement Data and Manifests Lading using the ASC X12 Transaction Set 858 Shipment Information (Version 004010) in support of the Defense Transportation community's Electronic Business (DTEB) program. The copyright on the ASC X12 standards is held by the Data Interchange Standards Association on behalf of ASC X12.

For further information about the DTEB program, to obtain DoD conventions or *ASC X12* guidance or to recommend DoD conventions or *ASC X12* maintenance, contact the following:

United States Transportation Command
TCJ6-S
508 Scott Drive
Scott Air Force Base, IL 62225-7001

For the most recent publication, go to

https://cris.transcom.mil/cris/dteb/ic/trans_ics.cfm

[Note: To access publication, you must have an ITS account.]

Who Needs to Use This Document?

Computer programmers use this document to identify the data requirements for populating an EDI transaction.

Why Use a Convention?

A convention defines the rules for populating an EDI transaction. Following a convention ensures that trading partners will encounter fewer data quality problems during development and maintenance of EDI systems.

Contents

Additional sections are included in this document.

- Section 2.0, Control Segments, identifies the specific data requirements for formatting the EDI interchange control segments that envelop all EDI transactions.
- Section 3.0, Standard Implementation Convention, lists the layout of the target transaction set by segment and data element. Identified along side each transaction set data element is the IC Element Matrix index number from Section 4.0.
- Section 4.0, IC Element Matrix, identifies the application data elements trading partners need to exchange. Programmers use this section to map an existing application database into the transaction set.
- Section 5.0 , when present, contains an example of the EDI transactions.
- Section 6.0, Application Code Lists, when present, identifies the DoD codes that trading partners need to exchange. This section augments the matrix presented in Section 4.0.
- Other sections may contain examples of hard copy documents, examples of EDI transaction sets, segment looping logic tables, and other items that serve as references for software developers.

What's New In Version 1

| DM Number | DM Description | Approval Date |
|-----------|--|---------------|
| 1007 | Corrects dual code meaning for the value 'ZZ'. | 5/17/2011 |

Section 2.0

CONTROL SEGMENTS

Overview

This section describes the EDI control segments (interchange control and functional group segments). The control segment information was derived from the *ASC X12 Standards Version 4 Release 1* (004010).

Purpose

This section identifies the specific data requirements for formatting the EDI control segments when transmitting and receiving EDI transactions. The format and data content of the control segments are usually managed by EDI translation software. The data requirements described herein should be used to set control segment formats when installing or initializing translation software for transmission and reception of EDI transactions.

Contents

The complete 004010 version/release control segments includes an Interchange Control Segment Hierarchy on page 2.3, which identifies the control segments in their order of occurrence in an EDI communications interchange.

Beginning on page 2.5 are Department of Defense (DoD) Convention *ASC X12 Control Segments*, which present a detailed description of DoD data conventions for formatting Interchange Control and Functional Group segments for use among Defense Transportation Electronic Business (DTEB) trading partners.

Special Instructions

Any unique eight-bit (byte) character may serve as data element separator, segment terminator, or component element separator, provided each character is disjoint from all data elements within an interchange and that these values do not conflict with telecommunications protocols necessary to the transmission of the interchange. The following recommended values conform to information published in *Electronic Data Interchange, X12 Standards, Interchange Control Structures, Section 4.3, Delimiter Specifications*.

DATA ELEMENT SEPARATOR

While the data element separator is graphically displayed as an asterisk (*) or a tilde (~) in *ASC X12* documentation, it is the value employed in the fourth byte of an interchange envelope that actually assigns the separator that the translators will use throughout an interchange. Any unique eight-bit (byte) character may serve as data element separator, segment terminator, or component element separator, provided each character is disjoint from all data elements within an interchange and that these do not conflict with telecommunications protocols necessary to the transmission of the interchange.

ASC X12 recommends the ASCII character with hexadecimal value "1D" for use as the data element separator (gs). These values conform to information published in Electronic Data Interchange, X12 Standards, Interchange Control Structures, Section 4.3, Delimiter Specifications.

SEGMENT TERMINATOR

Likewise, the control envelope establishes the byte value used for segment termination within an interchange. *ASC X12* documentation usually portrays this as a new line (n/l character, but the actual segment terminator for an interchange will be the byte value occurring immediately following the ISA16 segment. *ASC X12* recommends the ASCII character with hexadecimal value "1C" for use as the segment (fs) terminator.

COMPONENT ELEMENT SEPARATOR

The ISA segment provides a discrete element (ISA16) for defining the component element separator within an interchange. The component element separator is a delimiter used to separate component data elements within a composite data structure. It must be different than the data element separator and the segment terminator. *ASC X12* recommends the ASCII character with hexadecimal value "1F" for use as the component element separation (us) character.

GS01 CODE VALUE

Use the appropriate code value from data element 479 in GS01 of the control envelope for indicating the transaction set being transmitted. For example, to exchange an implementation convention for Transaction Set 858, the correct code value for GS01 is 'SI' denoting Shipment Information (858).

X12 PUBLICATION

See *ASC X12* Electronic Data Interchange X12 Draft Version 4 Release 1 Standards, Document Number: *ASC X12S/97-372*, for complete 004010 version/release control segment specifications.

Interchange Control Envelope Control Segments

| Usage | Seg ID | Name | Req Des | Max Use |
|----------|-----------|-----------------------------|---------|---------|
| Must Use | ISA | Interchange Control Header | M | 1 |
| Must Use | GS | Functional Group Header | M | 1 |
| Must Use | ● ST - SE | Grouped Transactions | | |
| Must Use | ● ST - SE | Grouped Transactions | | |
| Must Use | ● ST - SE | Grouped Transactions | | |
| Must Use | GE | Functional Group Trailer | M | 1 |
| Must Use | GS | Functional Group Header | M | 1 |
| Must Use | ● ST - SE | Grouped Transactions | | |
| Must Use | ● ST - SE | Grouped Transactions | | |
| Must Use | ● ST - SE | Grouped Transactions | | |
| Must Use | GE | Functional Group Trailer | M | 1 |
| Must Use | IEA | Interchange Control Trailer | M | 1 |

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| | | | | |
|---|-------|-----|--|------------|
| M | ISA05 | I05 | Interchange ID Qualifier Qualifier to designate the system/method of code structure used to designate the sender or receiver ID element being qualified Select appropriate code value for sender from 4010 X12 code list for data element I05. For Department of Defense Agency Address Code (DoDAAC) use code value '10'. | M ID 2/2 |
| M | ISA06 | I06 | Interchange Sender ID Identification code published by the sender for other parties to use as the receiver ID to route data to them; the sender always codes this value in the sender ID element. DoD activities use DoDAAC or other code coordinated with trading partners. Non-DoD activities use identification code qualified by ISA05 and coordinated with network value added network (VAN) Administrator. | M AN 15/15 |
| M | ISA07 | I05 | Interchange ID Qualifier Qualifier to designate the system/method of code structure used to designate the sender or receiver ID element being qualified Select appropriate code value for receiver from 4010 X12 code list for data element I05. For DoDAAC use code value '10'. | M ID 2/2 |
| M | ISA08 | I07 | Interchange Receiver ID Identification code published by the receiver of the data; When sending, it is used by the sender as their sending ID, thus other parties sending to them will use this as a receiving ID to route data to them. DoD activities use DoDAAC or other code coordinated with trading partners. Non-DoD activities use identification code qualified by ISA05 and coordinated with VAN Administrator. | M AN 15/15 |

| M | ISA09 | I08 | Interchange Date Date of the interchange | M DT 6/6 | | | | | | |
|-------------|---|------------|---|-----------------|-------------------|-------|---|---|--------------------------------------|--|
| | | | Date in YYMMDD format assigned by translation software | | | | | | | |
| M | ISA10 | I09 | Interchange Time Time of the interchange | M DT 4/4 | | | | | | |
| | | | Time in HHMM format assigned by translation software | | | | | | | |
| M | ISA11 | I10 | Interchange Control Standards Code to identify the agency responsible for the control standard used by the message that is enclosed by the interchange header and trailer | M ID 1/1 | | | | | | |
| | | | <table border="0"> <thead> <tr> <th style="text-align: left;"><u>Code</u></th> <th style="text-align: left;"><u>Definition</u></th> </tr> </thead> <tbody> <tr> <td>U</td> <td>U.S. EDI Community of ASC X12, TDCC, and UCS</td> </tr> </tbody> </table> | <u>Code</u> | <u>Definition</u> | U | U.S. EDI Community of ASC X12, TDCC, and UCS | | | |
| <u>Code</u> | <u>Definition</u> | | | | | | | | | |
| U | U.S. EDI Community of ASC X12, TDCC, and UCS | | | | | | | | | |
| M | ISA12 | I11 | Interchange Control Version Number This version number covers the interchange Control segments. | M ID 5/5 | | | | | | |
| | | | <table border="0"> <thead> <tr> <th style="text-align: left;"><u>Code</u></th> <th style="text-align: left;"><u>Definition</u></th> </tr> </thead> <tbody> <tr> <td>00401</td> <td>Draft Standards for Trial Use Approved for Publication by ASC 12 Procedures Review Board through October 1997</td> </tr> </tbody> </table> | <u>Code</u> | <u>Definition</u> | 00401 | Draft Standards for Trial Use Approved for Publication by ASC 12 Procedures Review Board through October 1997 | | | |
| <u>Code</u> | <u>Definition</u> | | | | | | | | | |
| 00401 | Draft Standards for Trial Use Approved for Publication by ASC 12 Procedures Review Board through October 1997 | | | | | | | | | |
| | | | Version/release of control segment, as agreed upon by the trading partners | | | | | | | |
| M | ISA13 | I12 | Interchange Control Number A control number assigned by the interchange sender | M N0 9/9 | | | | | | |
| | | | Number assigned by translation software. The sender, receiver, and all third parties should be able to maintain an audit trail of interchanges using this number. | | | | | | | |
| M | ISA14 | I13 | Acknowledgment Requested Code sent by the sender to request an interchange acknowledgment (TA1) | M ID 1/1 | | | | | | |
| | | | <table border="0"> <thead> <tr> <th style="text-align: left;"><u>Code</u></th> <th style="text-align: left;"><u>Definition</u></th> </tr> </thead> <tbody> <tr> <td>0</td> <td>No Acknowledgment Requested</td> </tr> <tr> <td>1</td> <td>Interchange Acknowledgment Requested</td> </tr> </tbody> </table> | <u>Code</u> | <u>Definition</u> | 0 | No Acknowledgment Requested | 1 | Interchange Acknowledgment Requested | |
| <u>Code</u> | <u>Definition</u> | | | | | | | | | |
| 0 | No Acknowledgment Requested | | | | | | | | | |
| 1 | Interchange Acknowledgment Requested | | | | | | | | | |
| | | | Send code agreed upon by trading partners. | | | | | | | |

Segment: GS Functional Group Header
 Usage: Mandatory
 Max Use: 1
 Purpose: To indicate the beginning of a functional group and to provide control information

DATA ELEMENT SUMMARY

| Ref Des | Data Element | Name | Attributes |
|--|--------------|--|------------|
| M GS01 | 479 | Functional Identifier Code Code identifying a group of application related transaction sets | M ID 2/2 |
| <p>Use the appropriate code value from data element 479 in GS01 of the control envelope for indicating the transaction set being transmitted. For example, to exchange an implementation convention for Transaction Set 858, the correct code value for GS01 is 'SI' denoting Shipment Information (858).</p> | | | |
| M GS02 | 142 | Application Sender's Code Code identifying party sending transmission; codes agreed to by trading partners | M AN 2/15 |
| <p>Typically, a sender will use different codes here to uniquely identify each implementation convention (IC) for a particular transaction set. DoD activities use DoDAAC or other code coordinated with trading partners. Non-DoD activities use identification code assigned by DoD, which for increased security should differ from that used in ISA06.</p> | | | |
| M GS03 | 124 | Application Receiver's Code Code to identify the type of information in the Security Information | M AN 2/15 |
| <p>DoD activities use DoDAAC or other code coordinated with trading partners. Non-DoD activities use identification code assigned by DoD, which for increased security should differ from that used in ISA08</p> | | | |

| M | GS04 | 373 | Date Date expressed as CCYYMMDD. Information about the interchange sender or the data in the interchange; the type of information is set by the Security Information Qualifier (I03) | M DT 8/8 | | | | |
|-------------|--|------------|---|-----------------|-------------------|--------|--|--|
| | | | Date assigned by translation software | | | | | |
| M | GS05 | 337 | Time Time expressed in 24-hour clock time as follows: HHMM or HHMMSS, or HHMMSSD, or HHMMSSDD, where H – hours (00-23), M = minutes (00-59), S = integer seconds (00-59), and D = decimal seconds; decimal seconds are expressed as follows: D = tenths (0-9) and DD = hundredths (00-99) | M TM 4/8 | | | | |
| | | | Time expressed in HHMM format assigned by translation software | | | | | |
| M | GS06 | 28 | Group Control Number Assigned number originated and maintained by the sender | M N0 1/9 | | | | |
| | | | Number assigned by translation software. The sender, receiver, and all third parties should be able to maintain an audit trail of interchanges using this number. | | | | | |
| M | GS07 | 455 | Responsible Agency Code Code used in conjunction with Data Element 480 to identify the issuer of the standard. | M ID 1/1 | | | | |
| | | | <table border="0" style="width: 100%;"> <thead> <tr> <th style="text-align: left; border-bottom: 1px solid black;"><u>Code</u></th> <th style="text-align: left; border-bottom: 1px solid black;"><u>Definition</u></th> </tr> </thead> <tbody> <tr> <td>X</td> <td>Accredited Standards Committee X12</td> </tr> </tbody> </table> | <u>Code</u> | <u>Definition</u> | X | Accredited Standards Committee X12 | |
| <u>Code</u> | <u>Definition</u> | | | | | | | |
| X | Accredited Standards Committee X12 | | | | | | | |
| M | GS08 | 480 | Version / Release / Industry Identified Code Code indicating the version, release, subrelease, and industry identifier of the EDI standard being used, including the GS and GE segments; if code in DE455 in GS segment is X, then in DE 480 positions 1-3 are the version number; positions 4-6 are the release and subrelease, level of the version; and positions 7-12 are the industry or trade association identifiers (optionally assigned by the user), if code in DE455 in GS segment is T, then other formats are allowed. | M AN 6/6 | | | | |
| | | | <table border="0" style="width: 100%;"> <thead> <tr> <th style="text-align: left; border-bottom: 1px solid black;"><u>Code</u></th> <th style="text-align: left; border-bottom: 1px solid black;"><u>Definition</u></th> </tr> </thead> <tbody> <tr> <td>004010</td> <td>Draft Standard Approved for Publication by ASC X12 Procedures Review Board through October 1997</td> </tr> </tbody> </table> | <u>Code</u> | <u>Definition</u> | 004010 | Draft Standard Approved for Publication by ASC X12 Procedures Review Board through October 1997 | |
| <u>Code</u> | <u>Definition</u> | | | | | | | |
| 004010 | Draft Standard Approved for Publication by ASC X12 Procedures Review Board through October 1997 | | | | | | | |
| | | | This is the version/release for all transactions within a functional group. See X12 4010 Dictionary for source code list. Note: optional positions 7- 12 are not used by the DTEB community. | | | | | |

Segment: GE Functional Group Trailer
Usage: Mandatory
Max Use: 1
Purpose: To indicate the end of a functional group and to provide control information

DATA ELEMENT SUMMARY

| Ref Des | Data Element | Name | Attributes |
|---------|--------------|------|---|
| M | GE01 | 97 | Number of Transaction Sets Included M N0 1/6 Total number of segments included in a transaction set including ST and SE segments Number assigned by translation software |
| M | GE02 | 28 | Group Control Number M N0 1/9 Assigned number originated and maintained by the sender Number assigned by the translation software. This control number matches the control number that occurs in GS06. |

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Segment: IEA Interchange Control Trailer
 Usage: Mandatory
 Max Use: 1
 Purpose: To define the end of an interchange of zero or more functional groups and interchange related control segments

DATA ELEMENT SUMMARY

| Ref Des | Data Element | Name | Attributes |
|---------|--------------|--|------------|
| M IEA01 | I16 | Number of Included Functional Groups A count of the number of functional groups included in an interchange Number calculated by translation software | M N0 1/6 |
| M IEA02 | I12 | Interchange Control Number A control number assigned by the interchange sender Number assigned by translation software. This number must match that occurring in ISA13. | M N0 9/9 |

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Section 3.0

STANDARD IMPLEMENTATION CONVENTION

This section presents the DoD's convention for generating air freight bills of lading using *ASC X12* Transaction Set 858 Shipment Information (Version 004010).

Symbols that appear in the Data Element Summary to the left of each segment reference designator (Ref. Des.) define implementation convention usage for the DoD. These designations may differ from X12 convention attributes appearing in the right-hand column of the Data Element Summary and should be interpreted as follows:

- [*blank*] - Segment or data element may be used optionally
- M - X12 standards designate mandatory use of segment or data element
- >> - Segment or data element is mandatory for DTEB use
- X - Segment or data element is not used.

NOTE: Whenever a segment occurs more than once, DoD's actual usage requirement may differ among the instances of segment usage. In all cases, the Data Element Summary will indicate the highest order DoD requirement. In other words, if one or several particular instances for a segment are OPTIONAL but another is MANDATORY, the Data Element Summary will indicate a MANDATORY requirement. A review of the IC layout in Section 4.0 will distinguish among the multiple instances and clarify the usage requirement for each instance.

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858 Shipment Information

Functional Group ID=**SI**

Introduction:

This Draft Standard for Trial Use contains the format and establishes the data contents of the Shipment Information Transaction Set (858) for use within the context of an Electronic Data Interchange (EDI) environment. The transaction set can be used to provide the sender with the capability to transmit detailed bill-of-lading, rating, and/or scheduling information pertinent to a shipment. This transaction set can also be used to exchange Government Bills of Lading (GBLs), Commercial Bills of Lading (CBLs), Transportation Control and Movement Documents (TCMDs), and Personal Property Government Bills of Lading (PPGBLs). It may be used by the U.S. Civilian Government, U.S. Department of Defense, and any of their trading partners to exchange information about the shipment of freight, household goods, and passengers. This transaction set fulfills information requirements established by U.S. Government transportation movement rules and regulations.

Heading:

| | <u>Pos. No.</u> | <u>Seg. ID</u> | <u>Name</u> | <u>Req. Des.</u> | <u>Max.Use</u> | <u>Loop Repeat</u> | <u>Notes and Comments</u> |
|--------------|-----------------|----------------|--|------------------|----------------|--------------------|---------------------------|
| M | 010 | ST | Transaction Set Header | M | 1 | | |
| Not Used | 020 | ZC1 | Beginning Segment for Data Correction or Change | O | 1 | | |
| M | 030 | BX | General Shipment Information | M | 1 | | n1 |
| Not Used | 040 | BNX | Rail Shipment Information | O | 1 | | |
| Not Used | 050 | M3 | Release | O | 1 | | |
| Must Use | 060 | N9 | Reference Identification | O | 30 | | |
| Not Used | 065 | CM | Cargo Manifest | O | 3 | | |
| Not Used | 070 | Y6 | Authentication | O | 4 | | |
| Not Used | 080 | Y7 | Priority | O | 1 | | |
| | 090 | C3 | Currency | O | 1 | | |
| Not Used | 100 | ITD | Terms of Sale/Deferred Terms of Sale | O | 1 | | |
| | 110 | G62 | Date/Time | O | 10 | | |
| Not Used | 120 | PER | Administrative Communications Contact | O | 3 | | |
| Not Used | 130 | NA | Cross-Reference Equipment | O | 999 | | |
| Not Used | 140 | F9 | Origin Station | O | 1 | | |
| Not Used | 150 | D9 | Destination Station | O | 1 | | |
| Not Used | 160 | R1 | Route Information (Air) | O | 1 | | |
| Not Used | 170 | R2 | Route Information | O | 13 | | |
| Not Used | 175 | R3 | Route Information - Motor | O | 13 | | |
| Not Used | 180 | R4 | Port or Terminal | O | 5 | | |
| Not Used | 190 | MEA | Measurements | O | 10 | | |
| | 200 | H3 | Special Handling Instructions | O | 20 | | |
| Not Used | 201 | PS | Protective Service Instructions | O | 5 | | |
| Not Used | 210 | H6 | Special Services | O | 6 | | |
| Not Used | 211 | V4 | Cargo Location Reference | O | 1 | | |
| Not Used | 212 | V5 | Vessel Code | O | 1 | | |
| LOOP ID - E1 | | | | | | 2 | |
| Not Used | 220 | E1 | Empty Car Disposition - Pended Destination Consignee | O | 1 | | |
| Not Used | 230 | E4 | Empty Car Disposition - Pended Destination City | O | 1 | | |
| Not Used | 240 | E5 | Empty Car Disposition - Pended Destination Route | O | 13 | | |

| | | | | | |
|---------------|-----|-----|---|---|-----|
| Not Used | 245 | PI | Price Authority Identification | O | 1 |
| Not Used | 250 | M1 | Insurance | O | 1 |
| Not Used | 260 | M2 | Sales/Delivery Terms | O | 1 |
| Not Used | 270 | L7 | Tariff Reference | O | 30 |
| Not Used | 280 | NTE | Note/Special Instruction | O | 50 |
| Not Used | 290 | XH | Pro Forma - B13 Information | O | 1 |
| LOOP ID - N7 | | | | | 600 |
| Not Used | 330 | N7 | Equipment Details | O | 1 |
| Not Used | 331 | EM | Equipment Characteristics | O | 1 |
| Not Used | 335 | NA | Cross-Reference Equipment | O | 30 |
| Not Used | 340 | M7 | Seal Numbers | O | 5 |
| Not Used | 350 | N5 | Equipment Ordered | O | 1 |
| Not Used | 360 | REF | Reference Identification | O | 5 |
| Not Used | 370 | IC | Intermodal Chassis Equipment | O | 1 |
| Not Used | 375 | VC | Motor Vehicle Control | O | 21 |
| Not Used | 380 | GA | Canadian Grain Information | O | 15 |
| LOOP ID - E1 | | | | | 2 |
| Not Used | 381 | E1 | Empty Car Disposition - Pended Destination Consignee | O | 1 |
| Not Used | 382 | E4 | Empty Car Disposition - Pended Destination City | O | 1 |
| Not Used | 383 | E5 | Empty Car Disposition - Pended Destination Route | O | 13 |
| Not Used | 384 | PI | Price Authority Identification | O | 1 |
| LOOP ID - N1 | | | | | 12 |
| Must Use | 390 | N1 | Name | O | 1 |
| | 400 | N2 | Additional Name Information | O | 2 |
| | 410 | N3 | Address Information | O | 2 |
| Must Use | 420 | N4 | Geographic Location | O | 1 |
| Not Used | 430 | REF | Reference Identification | O | 12 |
| Not Used | 440 | PER | Administrative Communications Contact | O | 3 |
| Not Used | 445 | H3 | Special Handling Instructions | O | 5 |
| LOOP ID - S5 | | | | | 999 |
| Not Used | 450 | S5 | Stop-off Details | O | 1 |
| Not Used | 460 | G62 | Date/Time | O | 6 |
| Not Used | 470 | N9 | Reference Identification | O | 10 |
| Not Used | 480 | H6 | Special Services | O | 6 |
| LOOP ID - N1 | | | | | 5 |
| Not Used | 490 | N1 | Name | O | 1 |
| Not Used | 500 | N2 | Additional Name Information | O | 2 |
| Not Used | 510 | N3 | Address Information | O | 2 |
| Not Used | 520 | N4 | Geographic Location | O | 1 |
| Not Used | 530 | REF | Reference Identification | O | 12 |
| Not Used | 540 | PER | Administrative Communications Contact | O | 3 |
| LOOP ID - FA1 | | | | | >1 |
| | 550 | FA1 | Type of Financial Accounting Data | O | 1 |
| M | 560 | FA2 | Accounting Data | M | >1 |
| Not Used | 570 | L10 | Weight | O | 1 |

Detail:

| | <u>Pos. No.</u> | <u>Seg. ID</u> | <u>Name</u> | <u>Req. Des.</u> | <u>Max.Use</u> | <u>Loop Repeat</u> | <u>Notes and Comments</u> |
|----------|-----------------|----------------|--|------------------|----------------|--------------------|---------------------------|
| | | | LOOP ID - HL | | | >1 | |
| M | 010 | HL | Hierarchical Level | M | 1 | | |
| Not Used | 020 | N7 | Equipment Details | O | 1 | | |
| Not Used | 030 | NA | Cross-Reference Equipment | O | 1 | | |
| Not Used | 040 | M7 | Seal Numbers | O | 5 | | |
| Not Used | 050 | N5 | Equipment Ordered | O | 1 | | |
| Not Used | 060 | REF | Reference Identification | O | 5 | | |
| Not Used | 070 | IC | Intermodal Chassis Equipment | O | 1 | | |
| Not Used | 080 | VC | Motor Vehicle Control | O | 24 | | |
| Not Used | 090 | L7 | Tariff Reference | O | 10 | | |
| | 095 | SL1 | Tariff Reference | O | 1 | | |
| Must Use | 100 | N9 | Reference Identification | O | 10 | | |
| | 105 | H3 | Special Handling Instructions | O | 1 | | |
| Not Used | 110 | X1 | Export License | O | 6 | | |
| Not Used | 120 | X2 | Import License | O | 1 | | |
| | 130 | L5 | Description, Marks and Numbers | O | 10 | | |
| Not Used | 131 | PER | Administrative Communications Contact | O | 5 | | |
| Not Used | 132 | LH2 | Hazardous Classification Information | O | 6 | | |
| Not Used | 133 | LHR | Hazardous Material Identifying Reference Numbers | O | 1 | | |
| Not Used | 134 | LH6 | Hazardous Certification | O | 5 | | |
| Not Used | 137 | Y7 | Priority | O | 2 | | |
| Not Used | 138 | G62 | Date/Time | O | 10 | | |
| Not Used | 140 | NTE | Note/Special Instruction | O | 100 | | |
| Not Used | 142 | LP | Load Planning | O | 1 | | |
| Not Used | 143 | AXL | Vehicle Axle Measurements | O | 12 | | |
| | | | LOOP ID - L0 | | | 20 | |
| Must Use | 145 | L0 | Line Item - Quantity and Weight | O | 1 | | |
| | 150 | L1 | Rate and Charges | O | 20 | | |
| | 160 | MEA | Measurements | O | 10 | | |
| | | | LOOP ID - LH1 | | | 100 | |
| | 170 | LH1 | Hazardous Identification Information | O | 1 | | |
| | 180 | LH2 | Hazardous Classification Information | O | 4 | | n2 |
| | 190 | LH3 | Hazardous Material Shipping Name | O | 12 | | |
| Not Used | 191 | LFH | Freeform Hazardous Material Information | O | 20 | | |
| Not Used | 192 | LEP | EPA Required Data | O | 3 | | |
| Not Used | 200 | LH4 | Canadian Dangerous Requirements | O | 1 | | |
| Not Used | 201 | LHT | Transborder Hazardous Requirements | O | 3 | | |
| Not Used | 210 | LHR | Hazardous Material Identifying Reference Numbers | O | 10 | | n3 |
| Not Used | 215 | PER | Administrative Communications Contact | O | 5 | | |
| Not Used | 220 | LHE | Empty Equipment Hazardous Material Information | O | 1 | | n4 |
| | | | LOOP ID - FA1 | | | >1 | |
| Not Used | 230 | FA1 | Type of Financial Accounting Data | O | 1 | | |
| Not Used | 240 | FA2 | Accounting Data | M | >1 | | |
| Not Used | 250 | L10 | Weight | O | 1 | | |
| | | | LOOP ID - NM1 | | | 4 | |
| Not Used | 260 | NM1 | Individual or Organizational Name | O | 1 | | |

| | | | | | |
|---------------------|-----|----|-----------------------------|---|----------|
| Not Used | 270 | N3 | Address Information | O | 2 |
| Not Used | 280 | N4 | Geographic Location | O | 1 |
| LOOP ID - N1 | | | | | 4 |
| | 290 | N1 | Name | O | 1 |
| Not Used | 300 | N2 | Additional Name Information | O | 2 |
| Not Used | 310 | N3 | Address Information | O | 2 |
| Not Used | 320 | N4 | Geographic Location | O | 1 |

Summary:

| | <u>Pos. No.</u> | <u>Seg. ID</u> | <u>Name</u> | <u>Req. Des.</u> | <u>Max.Use</u> | <u>Loop Repeat</u> | <u>Notes and Comments</u> |
|----------|-----------------|----------------|--------------------------|------------------|----------------|--------------------|---------------------------|
| Must Use | 010 | L3 | Total Weight and Charges | O | 1 | | |
| M | 020 | SE | Transaction Set Trailer | M | 1 | | |

Transaction Set Notes

1. BX05 contains the Standard Carrier Alpha Code (SCAC) of the original roadhaul carrier receiving the shipment.
2. If the hazardous endorsement (LH204) is "NONE", then use of LH204 is mandatory. However, the receiver must consider it to be blanks when printing a paper document.
3. All receivers of the EDI transactions covering empty tank cars which last contained hazardous commodities must be able to add the constant words: RESIDUE: LAST CONTAINED ahead of the contents of LHE01 and add the constant: RESIDUE following the contents of the LHE02 when printing paper documents.
4. When used in the hazardous material loop, the segment will identify the various certification, exemption or shipper-related numbers that relate to the specific line item of the shipment that are in addition to the UN/UA number reference in the LH1 segment.

Segment: **ST** Transaction Set Header
Position: 010
Loop:
Level: Heading
Usage: Mandatory
Max Use: 1
Purpose: To indicate the start of a transaction set and to assign a control number
Syntax Notes:
Semantic Notes: 1 The transaction set identifier (ST01) is used by the translation routines of the interchange partners to select the appropriate transaction set definition (e.g., 810 selects the Invoice Transaction Set).
Comments:
Notes: [1] ST SEGMENT - Air Freight Bill of Lading Header (DG 10)

Data Element Summary

| Ref. | Data Element | Name | Attributes |
|------|--------------|--|------------|
| M | ST01 | 143 Transaction Set Identifier Code | M ID 3/3 |
| | | Code uniquely identifying a Transaction Set | |
| | | [1-01] Transaction Set Identifier Code (DG 10) | |
| | | 858 Shipment Information | |
| | | [1-01] Shipment Information | |
| M | ST02 | 329 Transaction Set Control Number | M AN 4/9 |
| | | Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set | |
| | | [1-02] Transaction Set Control Number (DG 10) | |
| | | Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set. The application and structure of the control number must be agreed upon between trading partners. (For example, the first five digits might indicate a group control number, with the last four digits representing the sequence of the transaction set within the functional group. Otherwise, the entire nine digit field may simply represent the sequence of the transaction set generated by a trading partner.) | |

Segment: **BX** General Shipment Information
Position: 030
Loop:
Level: Heading
Usage: Mandatory
Max Use: 1
Purpose: To transmit identification numbers and other basic shipment data
Syntax Notes:
Semantic Notes:
Comments:
Notes: [2] BX SEGMENT - Air Freight Bill of Lading Beginning Segment (DG 10)

Data Element Summary

| <u>Ref.</u> | <u>Data Element</u> | <u>Name</u> | <u>Attributes</u> |
|-------------|---------------------|---|-------------------|
| M | BX01 | 353 Transaction Set Purpose Code | M ID 2/2 |
| | | Code identifying purpose of transaction set | |
| | | [2-01] Transaction Set Purpose Code (DG 10) | |
| | | Use of code '04' calls for the receiver to replace their most recent copy of the transaction. | |
| | | 00 Original | |
| | | [2-01] Original | |
| | | 01 Cancellation | |
| | | [2-01] Cancellation | |
| | | 04 Change | |
| | | [2-01] Change | |
| M | BX02 | 91 Transportation Method/Type Code | M ID 1/2 |
| | | Code specifying the method or type of transportation for the shipment | |
| | | [2-02] Transportation Method/Type Code (Mode Code) (DG 10) | |
| | | 7 Mail | |
| | | Type of transportation provided by the U.S. Postal Service | |
| | | [2-02] Mail | |
| | | AF Air Freight | |
| | | [2-02] Air Freight | |
| | | C Consolidation | |
| | | [2-02] Consolidation | |
| | | Use 'C' to denote CCP Shipment | |
| | | M Motor (Common Carrier) | |
| | | [2-02] Motor (Common Carrier) | |
| | | Use 'M' to denote Surface Freight Forwarder | |
| | | MP Motor (Package Carrier) | |
| | | [2-02] Motor (Package Carrier) | |
| | | Use 'MP' to denote Small Package Express Carrier | |
| | | ZZ Mutually defined | |
| | | [2-02] Mutually defined | |
| | | Use 'ZZ' to denote Other | |

| | | | | |
|----|------|-----|---|-----------|
| M | BX03 | 146 | Shipment Method of Payment | M ID 2/2 |
| | | | Code identifying payment terms for transportation charges | |
| | | | [2-03] Shipment Method of Payment (DG 10) | |
| | | | CD Collect on Delivery | |
| | | | [2-03] Collect on Delivery | |
| | | | PP Prepaid (by Seller) | |
| | | | [2-03] Prepaid (by Seller) | |
| | | | Use 'PP' to denote DVD ITV prototype | |
| | | | TP Third Party Pay | |
| | | | [2-03] Third Party Pay | |
| >> | BX04 | 145 | Shipment Identification Number | O AN 1/30 |
| | | | Identification number assigned to the shipment by the shipper that uniquely identifies the shipment from origin to ultimate destination and is not subject to modification; (Does not contain blanks or special characters) | |
| | | | [2-04] Bill of Lading Number (DG 10) | |
| | | | Use this element for the shipment ID assigned by the shipper. When generating bill of lading numbers, follow guidance provided by the X12 dictionary definition of data element 145. | |
| >> | BX05 | 140 | Standard Carrier Alpha Code | O ID 2/4 |
| | | | Standard Carrier Alpha Code | |
| | | | [2-05] Standard Carrier Alpha Code (DG 10) | |
| | | | The industry assigned alpha code representing the carrier who received the shipment. | |
| | | | SOURCE: Directory of Standard Multi-Model Carriers and Tariff Agents Codes (SCAC-STAC), NMF 101 Series available from National Motor Freight Association, Inc. | |
| X | BX06 | 188 | Weight Unit Code | O ID 1/1 |
| | | | Code specifying the weight unit | |
| | | | Refer to 004010 Data Element Dictionary for acceptable code values. | |
| | BX07 | 147 | Shipment Qualifier | O ID 1/1 |
| | | | Code defining relationship of this shipment with respect to other shipments given to the carrier at the same time | |
| | | | [2-07] Shipment Type Qualifier (DG 10) | |
| | | | C Consolidated Shipment | |
| | | | [2-07] Consolidated Shipment | |
| | | | Use 'C' to denote rate is a contract rate | |
| X | BX08 | 226 | Section Seven Code | O ID 1/1 |
| | | | Code indicating applicability of section seven option (if not transmitted assume not in effect) | |
| | | | Refer to 004010 Data Element Dictionary for acceptable code values. | |
| X | BX09 | 195 | Capacity Load Code | O ID 1/1 |
| | | | Code specifying type of capacity load | |
| | | | Refer to 004010 Data Element Dictionary for acceptable code values. | |
| X | BX10 | 160 | Status Report Request Code | O ID 1/1 |
| | | | Code used by the shipper to specify that an automatic status report is requested when the shipment is delivered | |
| | | | Refer to 004010 Data Element Dictionary for acceptable code values. | |
| X | BX11 | 501 | Customs Documentation Handling Code | O ID 2/2 |
| | | | Code defining method of handling for documentation | |
| | | | Refer to 004010 Data Element Dictionary for acceptable code values. | |

| | | | | |
|---|-------------|------------|---|-----------------|
| X | BX12 | 199 | Confidential Billing Request Code | O ID 1/1 |
| | | | Code used by the shipper to request that the carrier inhibit origin identification information from the invoice transaction sets and/or rate and charges from waybill documents and transaction sets when shipment moves under confidential contract rates Refer to 004010 Data Element Dictionary for acceptable code values. | |
| X | BX13 | 714 | Goods and Services Tax Reason Code | O ID 1/1 |
| | | | Code required to identify the reason for a 0% rated goods and services tax Refer to 004010 Data Element Dictionary for acceptable code values. | |
| X | BX14 | 346 | Application Type | O ID 2/2 |
| | | | Code identifying an application Refer to 004010 Data Element Dictionary for acceptable code values. | |

Segment: N9 Reference Identification
Position: 060
Loop:
Level: Heading
Usage: Optional (Must Use)
Max Use: 30
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.
- 3 If either C04003 or C04004 is present, then the other is required.
- 4 If either C04005 or C04006 is present, then the other is required.

Semantic Notes:

- 1 N906 reflects the time zone which the time reflects.
- 2 N907 contains data relating to the value cited in N902.

Comments:

Notes: [3] N9 SEGMENT - Purchase Order Invoice Number (DG 10)
 SEGMENT CONDITION: Use when Purchase Order Invoice Number applies.
 [4] N9 SEGMENT - Carrier Assigned Shipment ID (DG 10)
 SEGMENT CONDITION: Use when the shipment ID assigned by the carrier, such as a PRO number applies.
 [5] N9 SEGMENT - Carrier Contract/Tender Number (DG 10)
 SEGMENT CONDITION: Use when Carrier Contract/Tender Number applies.
 [6] N9 SEGMENT - Issue Priority Designator (DG 10)
 Describes the priority of the items being shipped.
 SEGMENT CONDITION: Use if Military Standard Requisitioning and Issue Procedures (MILSTRIP) apply.

Data Element Summary

| Ref. | Data | Name | Attributes |
|------|---------|--|------------|
| Des. | Element | | |
| M | N901 | 128 Reference Identification Qualifier | M ID 2/3 |
| | | Code qualifying the Reference Identification | |
| | | [3-01] PO Invoice Number Qualifier (DG 10) | |
| | | [4-01] Carrier Assigned Shipment ID Qualifier (DG 10) | |
| | | CHANGE NOTE: Replaces 'ZZ' code user note per DM 1007. | |
| | | [5-01] Carrier Contract Number Qualifier (DG 10) | |
| | | [6-01] Issue Priority Designator Qualifier (DG 10) | |
| | | CN Carrier's Reference Number (PRO/Invoice) | |
| | | [4-01] Carrier's Reference Number (PRO/Invoice) | |
| | | GC Government Contract Number | |
| | | [5-01] Government Contract Number | |
| | | PH Priority Rating | |
| | | [6-01] Priority Rating | |
| | | PO Purchase Order Number | |
| | | [3-01] Purchase Order Number | |
| | | ZZ Mutually Defined | |
| | | [5-01] Mutually Defined | |
| | | Use 'ZZ' to denote Tender Number | |

| | | | | | |
|----|--------|------|--|---|---------|
| >> | N902 | 127 | Reference Identification | X | AN 1/30 |
| | | | Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier | | |
| | | | [3-02] PO Invoice Number (DG 10) | | |
| | | | [4-02] Carrier Assigned Shipment ID (DG 10) | | |
| | | | When generating shipment ID numbers for this data element 127, follow guidance provided by the X12 dictionary definition of data element 145. | | |
| | | | [5-02] Carrier Contract Number (DG 10) | | |
| | | | The contract number assigned by the Government to the carrier. Government customers use this number when placing orders with the carrier. | | |
| | | | [6-02] Issue Priority Designator (DG 10) | | |
| | | | Issue priority designator can range from 1 to 15. | | |
| X | N903 | 369 | Free-form Description | X | AN 1/45 |
| | | | Free-form descriptive text | | |
| X | N904 | 373 | Date | O | DT 8/8 |
| | | | Date expressed as CCYYMMDD | | |
| X | N905 | 337 | Time | X | TM 4/8 |
| | | | Time expressed in 24-hour clock time as follows: HHMM, or HHMMSS, or HHMMSSD, or HHMMSSDD, where H = hours (00-23), M = minutes (00-59), S = integer seconds (00-59) and DD = decimal seconds; decimal seconds are expressed as follows: D = tenths (0-9) and DD = hundredths (00-99) | | |
| X | N906 | 623 | Time Code | O | ID 2/2 |
| | | | Code identifying the time. In accordance with International Standards Organization standard 8601, time can be specified by a + or - and an indication in hours in relation to Universal Time Coordinate (UTC) time; since + is a restricted character, + and - are substituted by P and M in the codes that follow | | |
| | | | Refer to 004010 Data Element Dictionary for acceptable code values. | | |
| X | N907 | C040 | Reference Identifier | O | |
| | | | To identify one or more reference numbers or identification numbers as specified by the Reference Qualifier | | |
| X | C04001 | 128 | Reference Identification Qualifier | M | ID 2/3 |
| | | | Code qualifying the Reference Identification | | |
| | | | Refer to 004010 Data Element Dictionary for acceptable code values. | | |
| X | C04002 | 127 | Reference Identification | M | AN 1/30 |
| | | | Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier | | |
| X | C04003 | 128 | Reference Identification Qualifier | X | ID 2/3 |
| | | | Code qualifying the Reference Identification | | |
| | | | Refer to 004010 Data Element Dictionary for acceptable code values. | | |
| X | C04004 | 127 | Reference Identification | X | AN 1/30 |
| | | | Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier | | |
| X | C04005 | 128 | Reference Identification Qualifier | X | ID 2/3 |
| | | | Code qualifying the Reference Identification | | |
| | | | Refer to 004010 Data Element Dictionary for acceptable code values. | | |
| X | C04006 | 127 | Reference Identification | X | AN 1/30 |
| | | | Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier | | |

Segment: C3 Currency
Position: 090
Loop:
Level: Heading
Usage: Optional
Max Use: 1
Purpose: To specify the currency being used in the transaction set
Syntax Notes:
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.

Notes: [7] C3 SEGMENT - Currency Code (DG 10)
This segment indicates the currency used for the bill of lading.
SEGMENT CONDITION: The segment is not required, and will not be used, when currency is in U.S. Dollars.

Data Element Summary

| Ref. | Data | | | |
|-------------|----------------|-------------|--|----------|
| <u>Des.</u> | <u>Element</u> | <u>Name</u> | <u>Attributes</u> | |
| M | C301 | 100 | Currency Code | M ID 3/3 |
| | | | Code (Standard ISO) for country in whose currency the charges are specified | |
| | | | [7-01] Currency Code (DG 10) | |
| | | | Data element C301 indicates a particular country's/region's currency used for all items on the Bill of Lading. (For example, the code value for EURO dollars is 'EUR'.) Other appropriate currency code values from the ISO 4217 table may be found on the web at: | |
| | | | http://www.iso.org/iso/en/prods-services/popstds/currencycodeslist.html . | |
| | | | SOURCE: Code for Representation of Names of Countries, Geopolitical Entities, Names, and Codes (GENC), is represented in the National System for Geospatial Intelligence (NSG) GENC Registry and mirrored at | |
| | | | http://www.transcom.mil/dteb/files/refdata/V_CTRY_DOD.htm . Codes for Representation of Currencies and Funds, ISO 4217, is available from American National Standards Institute. | |
| X | C302 | 280 | Exchange Rate | O R 4/10 |
| | | | Value to be used as a multiplier conversion factor to convert monetary value from one currency to another | |
| X | C303 | 100 | Currency Code | O ID 3/3 |
| | | | Code (Standard ISO) for country in whose currency the charges are specified | |
| X | C304 | 100 | Currency Code | O ID 3/3 |
| | | | Code (Standard ISO) for country in whose currency the charges are specified | |

Segment: **G62** Date/Time
Position: 110
Loop:
Level: Heading
Usage: Optional
Max Use: 10
Purpose: To specify pertinent dates and times
Syntax Notes:

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

Semantic Notes:
Comments:

Notes: [8] G62 SEGMENT - Required Delivery Date (RDD) (DG 10)
 SEGMENT CONDITION: Required for repair parts pilots.
 [9] G62 SEGMENT - Carrier Pickup Date (DG 10)
 SEGMENT CONDITION: Required for FOB origin shipments.

Data Element Summary

| Ref. | Data Element | Name | Attributes |
|------|--------------|--|-----------------|
| >> | G6201 | 432 Date Qualifier | X ID 2/2 |
| | | Code specifying type of date | |
| | | [8-01] Required Delivery Date (RDD) Qualifier (DG 10) | |
| | | [9-01] Date Qualifier (DG 10) | |
| | | 68 Requested Delivery Date | |
| | | [8-01] Requested Delivery Date | |
| | | Use '68' to denote Required Delivery Date | |
| | | 86 Actual Pickup Date | |
| | | [9-01] Actual Pickup Date | |
| >> | G6202 | 373 Date | X DT 8/8 |
| | | Date expressed as CCYYMMDD | |
| | | [8-02] Required Delivery Date (RDD) (DG 10) | |
| | | [9-02] Carrier Pickup Date (DG 10) | |
| | | Date shipment is picked up from the shipper by the carrier. Use CCYYMMDD format. Required for FOB origin shipments. | |
| | | CHANGE NOTE: Requirement designation changed. | |
| | G6203 | 176 Time Qualifier | X ID 1/2 |
| | | Code specifying the reported time | |
| | | [9-03] Time Qualifier (DG 10) | |
| | | 8 Actual Pickup Time | |
| | | [9-03] Actual Pickup Time | |
| | G6204 | 337 Time | X TM 4/8 |
| | | Time expressed in 24-hour clock time as follows: HHMM, or HHMMSS, or HHMMSSD, or HHMMSSDD, where H = hours (00-23), M = minutes (00-59), S = integer seconds (00-59) and DD = decimal seconds; decimal seconds are expressed as follows: D = tenths (0-9) and DD = hundredths (00-99) | |
| | | [9-04] Carrier Pickup Time (DG 10) | |
| | | Time shipment is picked up from the shipper by the carrier. Use HHMM format. | |
| X | G6205 | 623 Time Code | O ID 2/2 |
| | | Code identifying the time. In accordance with International Standards Organization standard 8601, time can be specified by a + or - and an indication in hours in relation to Universal Time Coordinate (UTC) time; since + is a restricted character, + and - are substituted by P and M in the codes that follow Refer to 004010 Data Element Dictionary for acceptable code values. | |

Segment: **H3** Special Handling Instructions
Position: 200
Loop:
Level: Heading
Usage: Optional
Max Use: 20
Purpose: To specify special handling instructions in coded or free-form format
Syntax Notes: 1 Only one of H301 or H302 may be present.
Semantic Notes:
Comments:
Notes:

[10] H3 SEGMENT - Split Shipment Indicator (DG 10)
The shipper may need to split the shipment when items from the same purchase order need to be shipped in separate packages or on separate conveyances. Additionally, purchase order line item numbers need to be conveyed on the B/L to enable the consignee to reconcile split shipments.
SEGMENT CONDITION: Use this segment when the shipment is split.

Data Element Summary

| Ref. | Data | | | |
|-------------|----------------|--|--|-------------------|
| <u>Des.</u> | <u>Element</u> | <u>Name</u> | | <u>Attributes</u> |
| H301 | 152 | Special Handling Code | | X ID 2/3 |
| | | Code specifying special transportation handling instructions | | |
| | | [10-01] Split Shipment Indicator (DG 10) | | |
| | | ZZZ | Mutually Defined | |
| | | | [10-01] Mutually Defined | |
| | | | Use 'ZZZ' to denote The shipment was split at origin or enroute | |
| X | H302 | 153 | Special Handling Description | X AN 2/30 |
| | | | Free-form additional description of special handling instructions to appear on printed bill if special handling code is not adequate | |
| X | H303 | 241 | Protective Service Code | O ID 1/4 |
| | | | Code specifying perishable protective service- rail carriers only | |
| | | | Refer to 004010 Data Element Dictionary for acceptable code values. | |
| X | H304 | 242 | Vent Instruction Code | O ID 1/7 |
| | | | Code specifying vent instructions | |
| | | | Refer to 004010 Data Element Dictionary for acceptable code values. | |
| X | H305 | 257 | Tariff Application Code | O ID 1/1 |
| | | | Code indicating to which traffic a tariff applies | |
| | | | Refer to 004010 Data Element Dictionary for acceptable code values. | |

Segment: **N1** Name

Position: 390

Loop: N1 Optional (Must Use)

Level: Heading

Usage: Optional (Must Use)

Max Use: 1

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

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:

Comments:

- 1 This segment, used alone, provides the most efficient method of providing organizational identification. To obtain this efficiency the "ID Code" (N104) must provide a key to the table maintained by the transaction processing party.
- 2 N105 and N106 further define the type of entity in N101.

Notes:

[11] N1 SEGMENT - Destination (DG 70) Begins destination identifier loop. This loop calls for N1, N2, N3, and N4 segments.

[15] N1 SEGMENT - Origin (DG 71) Begins origin identifier loop. This loop calls for N1, N2, N3, and N4 segments.

[19] N1 SEGMENT - Shipper (DG 72) Begins shipper identifier loop. This loop calls for N1, N2, N3, and N4 segments.

[23] N1 SEGMENT - Consignee/Mark-for-Party (DG 73)
 LOOP CONDITION: Begins consignee identifier loop. The mark-for is the ultimate consignee. This loop calls for N1, N2, N3, and N4 segments.

[27] N1 SEGMENT - Payer Entity (DG 74)
 SEGMENT CONDITION: Required for FOB origin shipments. Begins payer entity identifier loop. This loop calls for a single N1 segment. It identifies the entity who is responsible for remitting payment to the carriers. For the prototype, identify USBank in this segment.

Data Element Summary

| Ref. | Data | Name | Attributes |
|-------------|----------------|---|-------------------|
| Des. | Element | | |
| M | N101 | 98 Entity Identifier Code | M ID 2/3 |
| | | Code identifying an organizational entity, a physical location, property or an individual | |
| | | [11-01] Entity Identifier Code (DG 70) | |
| | | [15-01] Entity Identifier Code (DG 71) | |
| | | [19-01] Entity Identifier Code (DG 72) | |
| | | [23-01] Consignee/Mark-for-Party Qualifier (DG 73) | |
| | | [27-01] Payer Identifier Code (DG 74) | |
| | | BT Bill-to-Party | |
| | | [27-01] Bill-to-Party | |
| | | CN Consignee | |
| | | [23-01] Consignee | |
| | | SF Ship From | |
| | | [15-01] Ship From | |
| | | SH Shipper | |
| | | [19-01] Shipper | |
| | | ST Ship To | |
| | | [11-01] Ship To | |

| | | | | |
|----|-------------|-----------|---|------------------|
| | N102 | 93 | Name | X AN 1/60 |
| | | | Free-form name | |
| | | | [11-02] Destination Name (DG 70) Name of party responsible for receiving delivery of the shipment. If DoDAAC is not available, this data element is MANDATORY. | |
| | | | [15-02] Origin Name (DG 71) | |
| | | | [19-02] Shipper Name (DG 72) | |
| | | | [23-02] Consignee/Mark-for-Party Name (DG 73) | |
| | | | [27-02] Payer Name (DG 74) | |
| | | | Use "USBank/PowerTrack" in this data element. | |
| >> | N103 | 66 | Identification Code Qualifier | X ID 1/2 |
| | | | Code designating the system/method of code structure used for Identification Code (67) | |
| | | | [11-03] Identification Code Qualifier (DG 70) | |
| | | | [15-03] Identification Code Qualifier (DG 71) | |
| | | | [19-03] Identification Code Qualifier (DG 72) | |
| | | | [23-03] Consignee/Mark-for-Party Identification Code Qualifier (DG 73) | |
| | | | [27-03] Payer Account Number Qualifier (DG 74) | |
| | | 1 | D-U-N-S Number, Dun & Bradstreet | |
| | | | [11-03] D-U-N-S Number, Dun & Bradstreet | |
| | | | [15-03] D-U-N-S Number, Dun & Bradstreet | |
| | | | [19-03] D-U-N-S Number, Dun & Bradstreet | |
| | | | [23-03] D-U-N-S Number, Dun & Bradstreet | |
| | | | [27-03] D-U-N-S Number, Dun & Bradstreet | |
| | | 9 | D-U-N-S+4, D-U-N-S Number with Four Character Suffix | |
| | | | [11-03] D-U-N-S+4, D-U-N-S Number with Four Character Suffix | |
| | | | [15-03] D-U-N-S+4, D-U-N-S Number with Four Character Suffix | |
| | | | [19-03] D-U-N-S+4, D-U-N-S Number with Four Character Suffix | |
| | | | [23-03] D-U-N-S+4, D-U-N-S Number with Four Character Suffix | |
| | | 10 | Department of Defense Activity Address Code (DODAAC) | |
| | | | [11-03] Department of Defense Activity Address Code (DODAAC) | |
| | | | [15-03] Department of Defense Activity Address Code (DODAAC) | |
| | | | [19-03] Department of Defense Activity Address Code (DODAAC) | |
| | | | [23-03] Department of Defense Activity Address Code (DODAAC) | |
| | | 33 | Commercial and Government Entity (CAGE) | |
| | | | [11-03] Commercial and Government Entity (CAGE) | |
| | | | [15-03] Commercial and Government Entity (CAGE) | |
| | | | [19-03] Commercial and Government Entity (CAGE) | |
| | | | [23-03] Commercial and Government Entity (CAGE) | |

| | | | | |
|----------|-------------|------------|--|------------------|
| >> | N104 | 67 | Identification Code | X AN 2/80 |
| | | | Code identifying a party or other code | |
| | | | [11-04] Destination DoDAAC/CAGE/D-U-N-S Number/D-U-N-S+4 (DG 70) Code that identifies the activity responsible for receiving delivery of the shipment. Required for DLA prime vendor shipments. | |
| | | | [15-04] Origin DoDAAC/CAGE/D-U-N-S Number/D-U-N-S+4 (DG 71) Identification code of the responsible activity at the pickup location. Required for DLA prime vendor shipments. | |
| | | | [19-04] Shipper DoDAAC/CAGE/D-U-N-S Number/D-U-N-S+4 (DG 72) | |
| | | | [23-04] Consignee/Mark-for-Party DoDAAC/CAGE/D-U-N-S Number/D-U-N-S+4 (DG 73) | |
| | | | [27-04] Payer Account Number (DG 74) Use US Bank's D-U-N-S Number. | |
| X | N105 | 706 | Entity Relationship Code | O ID 2/2 |
| | | | Code describing entity relationship | |
| | | | Refer to 004010 Data Element Dictionary for acceptable code values. | |
| X | N106 | 98 | Entity Identifier Code | O ID 2/3 |
| | | | Code identifying an organizational entity, a physical location, property or an individual | |
| | | | Refer to 004010 Data Element Dictionary for acceptable code values. | |

Segment: **N2 Additional Name Information**
Position: 400
Loop: N1 Optional (Must Use)
Level: Heading
Usage: Optional
Max Use: 2
Purpose: To specify additional names or those longer than 35 characters in length
Syntax Notes:
Semantic Notes:
Comments:
Notes:

[12] N2 SEGMENT - Destination (DG 70)
 SEGMENT CONDITION: Use when Destination Additional Name applies.
 [16] N2 SEGMENT - Origin (DG 71)
 SEGMENT CONDITION: Use when Origin Additional Name applies.
 [20] N2 SEGMENT - Shipper (DG 72)
 SEGMENT CONDITION: Use when Shipper Additional Name applies.
 [24] N2 SEGMENT - Consignee (DG 73)
 SEGMENT CONDITION: Use when Consignee Additional Name applies.

Data Element Summary

| | <u>Ref.</u> <u>Des.</u> | <u>Data</u> <u>Element</u> | <u>Name</u> | <u>Attributes</u> |
|---|----------------------------|-------------------------------|---|-------------------|
| M | N201 | 93 | Name Free-form name [12-01] Destination Additional Name (DG 70) [16-01] Origin additional Name (DG 71) [20-01] Shipper Additional Name (DG 72) [24-01] Consignee Additional Name (DG 73) | M AN 1/60 |
| X | N202 | 93 | Name Free-form name | O AN 1/60 |

Segment: **N3** Address Information
Position: 410
Loop: N1 Optional (Must Use)
Level: Heading
Usage: Optional
Max Use: 2
Purpose: To specify the location of the named party
Syntax Notes:
Semantic Notes:
Comments:

Notes:
 [13] N3 SEGMENT - Destination (DG 70)
 SEGMENT CONDITION: Use when Destination Street Address applies.
 [17] N3 SEGMENT - Origin (DG 71)
 SEGMENT CONDITION: Use when Origin Street applies.
 [21] N3 SEGMENT - Shipper (DG 72)
 SEGMENT CONDITION: Use when Shipper Street applies.
 [25] N3 SEGMENT - Consignee (DG 73)
 SEGMENT CONDITION: Use when Consignee Street applies.

Data Element Summary

| Ref. | Data | | | Attributes |
|-------------|----------------|-------------|---|------------|
| <u>Des.</u> | <u>Element</u> | <u>Name</u> | | |
| M | N301 | 166 | Address Information | M AN 1/55 |
| | | | Address information | |
| | | | [13-01] Destination Street (DG 70) | |
| | | | [17-01] Origin Street (DG 71) | |
| | | | [21-01] Shipper Street (DG 72) | |
| | | | [25-01] Consignee Street (DG 73) | |
| | N302 | 166 | Address Information | O AN 1/55 |
| | | | Address information | |
| | | | [13-02] Destination Street Additional (DG 70) | |
| | | | [17-02] Origin Street Additional (DG 71) | |

Segment: **N4 Geographic Location**
Position: 420
Loop: N1 Optional (Must Use)
Level: Heading
Usage: Optional (Must Use)
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:
Comments: 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.
Notes: [14] N4 SEGMENT - Destination (DG 70)
[18] N4 SEGMENT - Origin (DG 71)
[22] N4 SEGMENT - Shipper (DG 72)
[26] N4 SEGMENT - Consignee (DG 73)

Data Element Summary

| Ref. | Data Element | Name | Attributes |
|------|--------------|---|------------------|
| >> | N401 | 19 City Name | O AN 2/30 |
| | | Free-form text for city name [14-01] Destination City (DG 70) [18-01] Origin City (DG 71) [22-01] Shipper City (DG 72) [26-01] Consignee City (DG 73) | |
| | N402 | 156 State or Province Code | O ID 2/2 |
| | | Code (Standard State/Province) as defined by appropriate government agency [14-02] Destination State or Province Code (DG 70) If a CONUS location, this element is MANDATORY. SOURCE: National Zip Code and Post Office Directory available from U.S. Postal Service National Information Data Center [18-02] Origin State or Province Code (DG 71) If a CONUS location, this element is MANDATORY. SOURCE: National Zip Code and Post Office Directory available from U.S. Postal Service National Information Data Center [22-02] Shipper State or Province Code (DG 72) If a CONUS location, this element is MANDATORY. SOURCE: National Zip Code and Post Office Directory available from U.S. Postal Service National Information Data Center [26-02] Consignee State or Province Code (DG 73) If a CONUS location, this element is MANDATORY. SOURCE: National Zip Code and Post Office Directory available from U.S. Postal Service National Information Data Center | |
| | N403 | 116 Postal Code | O ID 3/15 |
| | | Code defining international postal zone code excluding punctuation and blanks (zip code for United States) [14-03] Destination Postal Code (DG 70) If a CONUS location, this element is MANDATORY. SOURCE: National ZIP Code and Post Office Directory, Publication 65 available from U.S. Postal Service; The USPS Domestic Mail Manual available from New Orders Superintendent of Documents [18-03] Origin Postal Code (DG 71) If a CONUS location, this element is MANDATORY. SOURCE: National ZIP Code and Post Office Directory, Publication 65 available from U.S. Postal Service; The USPS Domestic Mail Manual available from New Orders Superintendent of Documents [22-03] Shipper Postal Code (DG 72) If a CONUS location, this element is MANDATORY. | |

SOURCE: National ZIP Code and Post Office Directory, Publication 65 available from U.S Postal Service; The USPS Domestic Mail Manual available from New Orders Superintendent of Documents
 [26-03] Consignee Postal Code (DG 73)
 If a CONUS location, this element is MANDATORY.
 SOURCE: National ZIP Code and Post Office Directory, Publication 65 available from U.S Postal Service; The USPS Domestic Mail Manual available from New Orders Superintendent of Documents

N404 26 Country Code O ID 2/3

Code identifying the country

[14-04] Destination Country Code (DG 70)

When the shipment will move outside the country of origin, this element is MANDATORY. Use the abbreviation code for the country where delivery will occur.

SOURCE: Code for Representation of Names of Countries, Geopolitical Entities, Names, and Codes (GENC), is represented in the National System for Geospatial Intelligence (NSG) GENC Registry and mirrored at http://www.transcom.mil/dteb/files/refdata/V_CTRY_DOD.htm. Codes for Representation of Currencies and Funds, ISO 4217, is available from American National Standards Institute.

[18-04] Origin Country Code (DG 71)

When the shipment will move outside the country of origin, this element is MANDATORY. Use the abbreviation code for the country of origination.

SOURCE: Code for Representation of Names of Countries, Geopolitical Entities, Names, and Codes (GENC), is represented in the National System for Geospatial Intelligence (NSG) GENC Registry and mirrored at http://www.transcom.mil/dteb/files/refdata/V_CTRY_DOD.htm. Codes for Representation of Currencies and Funds, ISO 4217, is available from American National Standards Institute.

[22-04] Shipper Country Code (DG 72)

If an OCONUS location, this element is MANDATORY.

SOURCE: Code for Representation of Names of Countries, Geopolitical Entities, Names, and Codes (GENC), is represented in the National System for Geospatial Intelligence (NSG) GENC Registry and mirrored at http://www.transcom.mil/dteb/files/refdata/V_CTRY_DOD.htm. Codes for Representation of Currencies and Funds, ISO 4217, is available from American National Standards Institute.

[26-04] Consignee Country Code (DG 73)

If an OCONUS location, this element is MANDATORY.

SOURCE: Code for Representation of Names of Countries, Geopolitical Entities, Names, and Codes (GENC), is represented in the National System for Geospatial Intelligence (NSG) GENC Registry and mirrored at http://www.transcom.mil/dteb/files/refdata/V_CTRY_DOD.htm. Codes for Representation of Currencies and Funds, ISO 4217, is available from American National Standards Institute.

X N405 309 Location Qualifier X ID 1/2

Code identifying type of location

Refer to 004010 Data Element Dictionary for acceptable code values.

X N406 310 Location Identifier O AN 1/30

Code which identifies a specific location

Segment: **FA1** Type of Financial Accounting Data
Position: 550
Loop: FA1 Optional
Level: Heading
Usage: Optional
Max Use: 1
Purpose: To specify the organization controlling the content of the accounting citation, and the purpose associated with the accounting citation

Syntax Notes:
Semantic Notes: 1 FA101 Identifies the organization controlling the assignment of financial accounting information.
 2 FA102 Identifies the purpose of the accounting allowance or charge information.

Comments:
Notes: [28] FA1 SEGMENT - Appropriation Number (DG 90) This segment begins the appropriation number loop. It calls for both FA1 and FA2 segments. Shipper systems that are capable of receiving, storing, and sending structured DoD appropriation numbers may use this loop to exchange those numbers with trading partners.
 SEGMENT CONDITION: Carriers do not need to receive appropriation data.

Data Element Summary

| | <u>Ref.</u> <u>Des.</u> | <u>Data</u> <u>Element</u> | <u>Name</u> | <u>Attributes</u> |
|---|----------------------------|-------------------------------|--|-------------------|
| M | FA101 | 559 | Agency Qualifier Code Code identifying the agency assigning the code values [28-01] Agency Qualifier Code (DG 90) CHANGE NOTE: Correct 'HS' code user note per DM 911. | M ID 2/2 |
| | | | DF Department of Defense (DoD) [28-01] Department of Defense (DoD) | |
| | | | DN Department of the Navy [28-01] Department of the Navy | |
| | | | DX United States Marine Corps [28-01] United States Marine Corps | |
| | | | DY Department of Air Force [28-01] Department of Air Force | |
| | | | DZ Department of Army [28-01] Department of Army | |
| | | | HS Department of Health and Human Services [28-01] Department of Health and Human Services Use 'HS' to denote Department of Homeland Security/US Coast Guard (DHS/USCG) | |
| X | FA102 | 1300 | Service, Promotion, Allowance, or Charge Code Code identifying the service, promotion, allowance, or charge Refer to 004010 Data Element Dictionary for acceptable code values. | O ID 4/4 |
| X | FA103 | 248 | Allowance or Charge Indicator Code which indicates an allowance or charge for the service specified Refer to 004010 Data Element Dictionary for acceptable code values. | O ID 1/1 |

Segment: **FA2 Accounting Data**
Position: 560
Loop: FA1 Optional
Level: Heading
Usage: Mandatory
Max Use: >1
Purpose: To specify the detailed accounting data
Syntax Notes:
Semantic Notes:
Comments:
Notes: [29] FA2 SEGMENT - Appropriation Number (DG 90)
 Note: Required if FA1 loop appears.

Data Element Summary

| <u>Ref.</u> | <u>Data</u> | <u>Name</u> | <u>Attributes</u> |
|-------------|-------------|--|-------------------|
| M | FA201 | 1196 Breakdown Structure Detail Code | M ID 2/2 |
| | | Codes identifying details relating to a reporting breakdown structure tree | |
| | | [29-01] Breakdown Structure Detail Code (DG 90) | |
| | | 18 Funds Appropriation | |
| | | Coding to track the source of funds (such as various government agencies) | |
| | | [29-01] Funds Appropriation | |
| | | 84 Total Direct Costs | |
| | | [29-01] Total Direct Costs | |
| | | A1 Department Indicator | |
| | | [29-01] Department Indicator | |
| | | A2 Transfer from Department | |
| | | [29-01] Transfer from Department | |
| | | A3 Fiscal Year Indicator | |
| | | [29-01] Fiscal Year Indicator | |
| | | A4 Basic Symbol Number | |
| | | [29-01] Basic Symbol Number | |
| | | A5 Sub-class | |
| | | [29-01] Sub-class | |
| | | A6 Sub-Account Symbol | |
| | | [29-01] Sub-Account Symbol | |
| | | AT Air Force Transportation Account Code (ATAC) | |
| | | [29-01] Air Force Transportation Account Code (ATAC) | |
| | | B1 Budget Activity Number | |
| | | [29-01] Budget Activity Number | |
| | | B2 Budget Sub-activity Number | |
| | | [29-01] Budget Sub-activity Number | |
| | | B3 Budget Program Activity | |
| | | [29-01] Budget Program Activity | |
| | | C1 Program Element | |
| | | [29-01] Program Element | |
| | | C2 Project Task or Budget Subline | |
| | | [29-01] Project Task or Budget Subline | |
| | | D1 Defense Agency Allocation Recipient | |
| | | [29-01] Defense Agency Allocation Recipient | |
| | | D4 Component Sub-allocation Recipient | |
| | | [29-01] Component Sub-allocation Recipient | |

| | |
|----|--|
| D6 | Sub-allotment Recipient [29-01] Sub-allotment Recipient |
| D7 | Work Center Recipient [29-01] Work Center Recipient |
| E1 | Major Reimbursement Source Code [29-01] Major Reimbursement Source Code |
| E2 | Detail Reimbursement Source Code [29-01] Detail Reimbursement Source Code |
| E3 | Customer Indicator [29-01] Customer Indicator |
| F1 | Object Class [29-01] Object Class |
| F3 | Government or Public Sector Identifier [29-01] Government or Public Sector Identifier |
| G2 | Special Interest Code or Special Program Cost Code [29-01] Special Interest Code or Special Program Cost Code |
| I1 | Abbreviated Department of Defense (DoD) Budget and Accounting Classification Code (BACC) [29-01] Abbreviated Department of Defense (DoD) Budget and Accounting Classification Code (BACC) |
| J1 | Document or Record Reference Number [29-01] Document or Record Reference Number |
| K6 | Accounting Classification Reference Code [29-01] Accounting Classification Reference Code |
| L1 | Accounting Installation Number [29-01] Accounting Installation Number |
| M1 | Local Installation Data [29-01] Local Installation Data |
| MD | Movement Designator Code (MDC) [29-01] Movement Designator Code (MDC) |
| N1 | Transaction Type [29-01] Transaction Type |
| P5 | Foreign Military Sales (FMS) Line Item Number [29-01] Foreign Military Sales (FMS) Line Item Number |
| TA | Transportation Account Code (TAC) [29-01] Transportation Account Code (TAC) |
| ZZ | Mutually Defined [29-01] Mutually Defined |

M FA202 1195 Financial Information Code M AN 1/80

Code representing financial accounting information
 [29-02] Appropriation Number (DG 90)
 When FA201 contains code value '84', FA202 should be formatted as a dollar amount including a decimal character and two positions after the decimal, representing cents even if the value is a whole dollar amount.

Segment: **HL** Hierarchical Level
Position: 010
Loop: HL Mandatory
Level: Detail
Usage: Mandatory
Max Use: 1
Purpose: To identify dependencies among and the content of hierarchically related groups of data segments

Syntax Notes:
Semantic Notes:
Comments:

- 1 The HL segment is used to identify levels of detail information using a hierarchical structure, such as relating line-item data to shipment data, and packaging data to line-item data.
The HL segment defines a top-down/left-right ordered structure.
- 2 HL01 shall contain a unique alphanumeric number for each occurrence of the HL segment in the transaction set. For example, HL01 could be used to indicate the number of occurrences of the HL segment, in which case the value of HL01 would be "1" for the initial HL segment and would be incremented by one in each subsequent HL segment within the transaction.
- 3 HL02 identifies the hierarchical ID number of the HL segment to which the current HL segment is subordinate.
- 4 HL03 indicates the context of the series of segments following the current HL segment up to the next occurrence of an HL segment in the transaction. For example, HL03 is used to indicate that subsequent segments in the HL loop form a logical grouping of data referring to shipment, order, or item-level information.
- 5 HL04 indicates whether or not there are subordinate (or child) HL segments related to the current HL segment.

Notes: [30] HL SEGMENT - Pallet Description Loop (DG 140)
LOOP CONDITION: This segment begins the pallet description loop. It occurs once for each pallet in the shipment. This loop calls for HL, L5, L0, and MEA segments.
[34] HL SEGMENT - Box/Cooler Description Loop (DG 120) This segment begins the box and cooler description loop. It occurs once for each box or cooler in the shipment. The term 'cooler' is interchangeable with 'box' for this implementation convention matrix. The loop contains HL, L5, L0, and MEA segments.
SEGMENT CONDITION: Use if Pallet Weight applies.
[39] HL SEGMENT - Bill of Lading Line Item Description Loop (DG 100) Begins bill of lading (B/L) line item description loop. This loop calls for HL, N9, L0, L1, LH1, LH2, and LH3 segments. The B/L line item contains unit of sale multiplied by the order quantity from the vendor's purchase order. This loop occurs at least once for every line item on the vendor's purchase order. If the purchase order line item is broken into multiple handling loads (box/cooler/pallet) for shipment, then this loop should occur once for each handling unit.
[54] HL SEGMENT - Level of Service Loop (DG 300)
SEGMENT CONDITION: This loop applies once for the bill of lading. This loop calls for HL and SL1 segments. Required for express packages shipment.
[56] HL SEGMENT - Accessorial Service Description Loop (DG 301)
SEGMENT CONDITION: Begins accessorial service description loop. This loop calls for HL, L0, and L1 segments. This loop occurs once for each accessorial service that applies to the shipment.

Data Element Summary

| Ref. | Data | Name | Attributes |
|------|---------|--|------------|
| Des. | Element | | |
| M | HL01 | 628 Hierarchical ID Number | M AN 1/12 |
| | | A unique number assigned by the sender to identify a particular data segment in a hierarchical structure | |
| | | [30-01] Hierarchical ID Number (DG 140) | |
| | | A sequential number assigned by the shipper's application system. | |
| | | [34-01] Hierarchical ID Number (DG 120) | |
| | | A sequential number assigned by the shipper's application system. | |

| | | | |
|----------|-------------|------------|---|
| | | | [39-01] Hierarchical ID Number (DG 100) A sequential number assigned by the shipper's application system. |
| | | | [54-01] Hierarchical ID Number (DG 300) A sequential number assigned by the shipper's application system. |
| | | | [56-01] Hierarchical ID Number (DG 301) A sequential number assigned by the shipper's application system. |
| X | HL02 | 734 | Hierarchical Parent ID Number O AN 1/12 Identification number of the next higher hierarchical data segment that the data segment being described is subordinate to |
| M | HL03 | 735 | Hierarchical Level Code M ID 1/2 Code defining the characteristic of a level in a hierarchical structure |
| | | | [30-03] Hierarchical Level Code (DG 140) |
| | | | [34-03] Hierarchical Level Code (DG 120) |
| | | | [39-03] Hierarchical Level Code (DG 100) |
| | | | Qualifier identifying that all information within this HL loop corresponds to bill of lading line item details. |
| | | | [54-03] Hierarchical Level Code (DG 300) |
| | | | [56-03] Hierarchical Level Code (DG 301) |
| | | 9 | Line Detail Code identifying the supporting detail associated with the charge or group |
| | | | [39-03] Line Detail |
| | | 41 | Product Level [54-03] Product Level |
| | | P | Pack [34-03] Pack Use 'P' to denote Box/Cooler |
| | | SS | Services [56-03] Services |
| | | UT | Unit or Lot [30-03] Unit or Lot |
| X | HL04 | 736 | Hierarchical Child Code O ID 1/1 Code indicating if there are hierarchical child data segments subordinate to the level being described Refer to 004010 Data Element Dictionary for acceptable code values. |

Segment: **SL1** **Tariff Reference**
Position: 095
Loop: HL Mandatory
Level: Detail
Usage: Optional
Max Use: 1
Purpose: To reference details of the tariff used to arrive at applicable rates or charges for customer-requested service
Syntax Notes: 1 At least one of SL103 or SL104 is required.
Semantic Notes: 1 SL101 is the service requested by the customer.
2 SL105 is the effective date.
3 SL106 is the service provided by the carrier.
Comments: 1 Scale and commodity codes are proprietary codes maintained by the carrier.
Notes: [55] SL1 SEGMENT - Level of Service (DG 300)
SEGMENT CONDITION: Use if Level of Service applies.

Data Element Summary

| | <u>Ref. Des.</u> | <u>Data Element</u> | <u>Name</u> | <u>Attributes</u> |
|---|------------------|---------------------|--|-------------------|
| M | SL101 | 284 | Service Level Code Code indicating the level of transportation service or the billing service offered by the transportation carrier [55-01] Service Level Code (DG 300) | M ID 2/2 |
| | | | DF Deferred Service [55-01] Deferred Service | |
| | | | NF Next Flight Out [55-01] Next Flight Out | |
| | | | ON Overnight [55-01] Overnight | |
| | | | SC Second Day Air Delivery during business day hours no later than second business day [55-01] Second Day Air | |
| X | SL102 | 171 | Tariff Number Standard tariff number for the tariff which governs the rates applied to the commodity item(s) | O AN 1/7 |
| X | SL103 | 22 | Commodity Code Code describing a commodity or group of commodities | X AN 1/30 |
| X | SL104 | 320 | Scale A carrier-maintained reference used to further identify a schedule of rates within a tariff | X AN 1/10 |
| X | SL105 | 373 | Date Date expressed as CCYYMMDD | O DT 8/8 |
| X | SL106 | 284 | Service Level Code Code indicating the level of transportation service or the billing service offered by the transportation carrier Refer to 004010 Data Element Dictionary for acceptable code values. | O ID 2/2 |
| X | SL107 | 146 | Shipment Method of Payment Code identifying payment terms for transportation charges Refer to 004010 Data Element Dictionary for acceptable code values. | O ID 2/2 |
| X | SL108 | 982 | Data Source Code Code identifying source of data Refer to 004010 Data Element Dictionary for acceptable code values. | O ID 2/2 |

X

SL109

210

International/Domestic Code

O ID 1/1

Code indicating international or domestic shipment

Refer to 004010 Data Element Dictionary for acceptable code values.

Segment: **N9 Reference Identification**
Position: 100
Loop: HL Mandatory
Level: Detail
Usage: Optional (Must Use)
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.
- 3 If either C04003 or C04004 is present, then the other is required.
- 4 If either C04005 or C04006 is present, then the other is required.

Semantic Notes:

- 1 N906 reflects the time zone which the time reflects.
- 2 N907 contains data relating to the value cited in N902.

Comments:
Notes:

[40] N9 SEGMENT - Vendor Contract Number (DG 100)
SEGMENT CONDITION: Use if Vendor Contract Number applies.
[41] N9 SEGMENT - Purchase Order Line Item Number (DG 100)
In the event a purchase order line item is split into two or more bill of lading line items, this segment will enable the buyer and seller to identify all parts of a purchase order line item.
[42] N9 SEGMENT - Requisition Number (DG 100)
SEGMENT CONDITION: Required for repair parts vendors receiving requisition numbers from their ICPs.
[43] N9 SEGMENT - Purchase Call Number (DG 100)
For DVD ITV prototype, use this segment for the order call number.
[44] N9 SEGMENT - Pallet Identifier (DG 100)
SEGMENT CONDITION: This segment identifies the pallet on which the bill of lading line item is conveyed.
[45] N9 SEGMENT - Box/Cooler Identifier (DG 100)
SEGMENT CONDITION: This segment identifies the box or cooler in which the bill of lading line item is conveyed. The term 'cooler' is interchangeable with 'box' for this implementation convention matrix.
[46] N9 SEGMENT - Transportation Control Number (TCN) (DG 100)
SEGMENT CONDITION: Required for vendors using TCNs when shipping to a CCP.
[47] N9 SEGMENT - Description of Articles (DG 100)
SEGMENT CONDITION: Required for DVD ITV prototype.

Data Element Summary

| Ref. | Data | Name | Attributes |
|------|---------|--|------------|
| Des. | Element | | |
| M | N901 | 128 Reference Identification Qualifier | M ID 2/3 |
| | | Code qualifying the Reference Identification | |
| | | [40-01] Vendor Contract Number Qualifier (DG 100) | |
| | | [41-01] Purchase Order Line Item Number Qualifier (DG 100) | |
| | | [42-01] Requisition Number Qualifier (DG 100) | |
| | | [43-01] Purchase Call Number Qualifier (DG 100) | |
| | | [44-01] Pallet Identification Qualifier (DG 100) | |
| | | [45-01] Box/Cooler Identification Qualifier (DG 100) | |
| | | [46-01] TCN Qualifier (DG 100) | |
| | | [47-01] Product Code Qualifier (DG 100) | |
| | | Code values '3Q' and 'CH' pertain to the ITV prototype. | |
| | | 3Q Food and Drug Administration (FDA) Product Code | |
| | | [47-01] Food and Drug Administration (FDA) Product Code | |
| | | Use '3Q' to denote National Drug Code/FDA Product Code | |
| | | BV Purchase Order Line Item Identifier (Buyer) | |
| | | [41-01] Purchase Order Line Item Identifier (Buyer) | |

| | |
|-----|--|
| CH | Customer catalog number [47-01] Customer catalog number Use 'CH' to denote Vendor catalog number |
| MF | Manufacturers Part Number [47-01] Manufacturers Part Number |
| NS | National Stock Number [47-01] National Stock Number |
| OZ | Product Number [47-01] Product Number |
| PG | Product Group [47-01] Product Group |
| PIN | Platform Identification Number [44-01] Platform Identification Number |
| PO | Purchase Order Number [43-01] Purchase Order Number |
| Q2 | Starting Package Number The beginning package number in a shipment or container of numbered packages [45-01] Starting Package Number |
| RQ | Purchase Requisition Number [42-01] Purchase Requisition Number |
| TG | Transportation Control Number (TCN) [46-01] Transportation Control Number (TCN) |
| VC | Vendor Contract Number [40-01] Vendor Contract Number |
| XY | Other Unlisted Type of Reference Number [47-01] Other Unlisted Type of Reference Number |

>> **N902** **127** **Reference Identification** **X** **AN 1/30**

Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier
 [40-02] Vendor Contract Number (DG 100)
 [41-02] Purchase Order Line Item Number (DG 100)
 [42-02] Requisition Number (DG 100)
 [43-02] Purchase Call Number (DG 100)
 A number that uniquely identifies the purchase transaction that resulted in the shipment.
 [44-02] Pallet Identifier (DG 100)
 [45-02] Box/Cooler Identifier (DG 100)
 [46-02] TCN (DG 100)
 [47-02] Product Code (DG 100)

N903 **369** **Free-form Description** **X** **AN 1/45**

Free-form descriptive text
 [47-03] Product Description (DG 100)
 Clear text description of the unit of sale being shipped.

X **N904** **373** **Date** **O** **DT 8/8**

Date expressed as CCYYMMDD

X **N905** **337** **Time** **X** **TM 4/8**

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

| | | | | |
|---|--------|------|--|-----------|
| X | N906 | 623 | Time Code | O ID 2/2 |
| | | | Code identifying the time. In accordance with International Standards Organization standard 8601, time can be specified by a + or - and an indication in hours in relation to Universal Time Coordinate (UTC) time; since + is a restricted character, + and - are substituted by P and M in the codes that follow Refer to 004010 Data Element Dictionary for acceptable code values. | |
| X | N907 | C040 | Reference Identifier | O |
| | | | To identify one or more reference numbers or identification numbers as specified by the Reference Qualifier | |
| X | C04001 | 128 | Reference Identification Qualifier | M ID 2/3 |
| | | | Code qualifying the Reference Identification Refer to 004010 Data Element Dictionary for acceptable code values. | |
| X | C04002 | 127 | Reference Identification | M AN 1/30 |
| | | | Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier | |
| X | C04003 | 128 | Reference Identification Qualifier | X ID 2/3 |
| | | | Code qualifying the Reference Identification Refer to 004010 Data Element Dictionary for acceptable code values. | |
| X | C04004 | 127 | Reference Identification | X AN 1/30 |
| | | | Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier | |
| X | C04005 | 128 | Reference Identification Qualifier | X ID 2/3 |
| | | | Code qualifying the Reference Identification Refer to 004010 Data Element Dictionary for acceptable code values. | |
| X | C04006 | 127 | Reference Identification | X AN 1/30 |
| | | | Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier | |

Segment: **H3** Special Handling Instructions
Position: 105
Loop: HL Mandatory
Level: Detail
Usage: Optional
Max Use: 1
Purpose: To specify special handling instructions in coded or free-form format
Syntax Notes: 1 Only one of H301 or H302 may be present.
Semantic Notes:
Comments:
Notes: [48] H3 SEGMENT - Refrigerated Item Indicator (DG 100)
 SEGMENT CONDITION: Use this segment when shipment contains refrigerated item(s).

Data Element Summary

| Ref. | Data | Name | Attributes |
|-------------|----------------|--|------------|
| <u>Des.</u> | <u>Element</u> | | |
| >> | H301 | 152 Special Handling Code Code specifying special transportation handling instructions [48-01] Refrigerated Item Indicator (DG 100) MRF Refrigerated [48-01] Refrigerated | X ID 2/3 |
| X | H302 | 153 Special Handling Description Free-form additional description of special handling instructions to appear on printed bill if special handling code is not adequate | X AN 2/30 |
| X | H303 | 241 Protective Service Code Code specifying perishable protective service- rail carriers only Refer to 004010 Data Element Dictionary for acceptable code values. | O ID 1/4 |
| X | H304 | 242 Vent Instruction Code Code specifying vent instructions Refer to 004010 Data Element Dictionary for acceptable code values. | O ID 1/7 |
| X | H305 | 257 Tariff Application Code Code indicating to which traffic a tariff applies Refer to 004010 Data Element Dictionary for acceptable code values. | O ID 1/1 |

Segment: **L5** Description, Marks and Numbers
Position: 130
Loop: HL Mandatory
Level: Detail
Usage: Optional
Max Use: 10
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.
2 If L507 is present, then L506 is required.
3 If either L508 or L509 is present, then the other is required.

Semantic Notes:
Comments: **1** L502 may be used to send quantity information as part of the product description.

Notes:
[31] L5 SEGMENT - Pallet ID (DG 140)
SEGMENT CONDITION: Use if Pallet ID applies.
[35] L5 SEGMENT - Box's Parent Pallet ID (DG 120)
SEGMENT CONDITION: Use if Box's Parent Pallet ID applies.
[36] L5 SEGMENT - Box ID (DG 120)
SEGMENT CONDITION: Use if Box ID applies.

Data Element Summary

| <u>Ref.</u> | <u>Data</u> | <u>Element</u> | <u>Name</u> | <u>Attributes</u> |
|-------------|-------------|----------------|---|-------------------|
| X | L501 | 213 | Lading Line Item Number Sequential line number for a lading item | O N0 1/3 |
| X | L502 | 79 | Lading Description Description of an item as required for rating and billing purposes | O AN 1/50 |
| X | L503 | 22 | Commodity Code Code describing a commodity or group of commodities | X AN 1/30 |
| X | L504 | 23 | Commodity Code Qualifier Code identifying the commodity coding system used for Commodity Code Refer to 004010 Data Element Dictionary for acceptable code values. | X ID 1/1 |
| X | L505 | 103 | Packaging Code Code identifying the type of packaging; Part 1: Packaging Form, Part 2: Packaging Material; if the Data Element is used, then Part 1 is always required Refer to 004010 Data Element Dictionary for acceptable code values. | O AN 3/5 |
| >> | L506 | 87 | Marks and Numbers Marks and numbers used to identify a shipment or parts of a shipment [31-06] Pallet ID (DG 140) [35-06] Pallet ID (DG 120) [36-06] Box ID (DG 120) | X AN 1/48 |
| >> | L507 | 88 | Marks and Numbers Qualifier Code specifying the application or source of Marks and Numbers (87) [31-07] Pallet ID Qualifier (DG 140) [35-07] Pallet ID Qualifier (DG 120) [36-07] Box ID Qualifier (DG 120) CA Shipper-Assigned Case Number Number identifying unit shipped [36-07] Shipper-Assigned Case Number W Pallet Number [31-07] Pallet Number [35-07] Pallet Number | O ID 1/2 |
| X | L508 | 23 | Commodity Code Qualifier Code identifying the commodity coding system used for Commodity Code Refer to 004010 Data Element Dictionary for acceptable code values. | X ID 1/1 |

| | | | | | |
|----------|-------------|------------|---|----------|----------------|
| X | L509 | 22 | Commodity Code Code describing a commodity or group of commodities | X | AN 1/30 |
| X | L510 | 595 | Compartment ID Code Code identifying the compartment in a compartmentalized tank car Refer to 004010 Data Element Dictionary for acceptable code values. | O | ID 1/1 |

Segment: **L0** Line Item - Quantity and Weight
Position: 145
Loop: L0 Optional (Must Use)
Level: Detail
Usage: Optional (Must Use)
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.
 - 6 If either L013 or L015 is present, then the other is required.

- Semantic Notes:**
- 1 L008 is the number of handling units of the line item tendered to the carrier.
 - 2 L013 can only be used if the code in L009 is PLT, SKD, or SLP.
 - 3 L015 designates whether the carrier will be required to verify the number of units contained on a pallet, slip sheet or skid. Code "Y" indicates that the carrier will be required to verify. Code "N" indicates that the carrier will not be required to verify.

- Comments:**
- 1 L013 is used to convey the total number of boxes, cartons, or pieces contained on a pallet, skid, or slip sheet for the line item.

- Notes:**
- [32] L0 SEGMENT - Pallet Weight (DG 140)
SEGMENT CONDITION: Use if Pallet Weight applies.
 - [37] L0 SEGMENT - Box Weight (DG 120)
SEGMENT CONDITION: Use if Box Weight applies.
 - [49] L0 SEGMENT - Bill of Lading Line Item Quantities (DG 100)
 - [57] L0 SEGMENT - Accessorial Service (DG 301)

Data Element Summary

| Ref. | Data | | | |
|-------------|----------------|-------------|--|-------------------|
| <u>Des.</u> | <u>Element</u> | <u>Name</u> | | <u>Attributes</u> |
| >> | L001 | 213 | Lading Line Item Number | O N0 1/3 |
| | | | Sequential line number for a lading item | |
| | | | [57-01] Lading Line Item Number (DG 301) | |
| | | | To use the L1 segment to identify service level code, enter '1' in this data element to satisfy X12 syntax. | |
| X | L002 | 220 | Billed/Rated-as Quantity | X R 1/11 |
| | | | Basis for rating (miles, value, volume, etc.); Note: Weight may be defined by either data element 220 or 81 | |
| X | L003 | 221 | Billed/Rated-as Qualifier | X ID 2/2 |
| | | | Code identifying the type of quantity or value on which the rate or item pricing is based | |
| | | | Refer to 004010 Data Element Dictionary for acceptable code values. | |
| >> | L004 | 81 | Weight | X R 1/10 |
| | | | Numeric value of weight | |
| | | | [32-04] Actual Pallet Weight (DG 140) | |
| | | | The actual weight of the loaded pallet. | |
| | | | [37-04] Actual Box Weight (DG 120) | |
| | | | [49-04] Actual Weight of Bill of Lading Line Item (DG 100) | |
| | | | The combined weight of the total units of sale shipped under this bill of lading line item. This is always expressed in pounds and may extend to two decimal places. | |

| | | | | | |
|----|-------------|------------|---|----------|----------------|
| >> | L005 | 187 | Weight Qualifier | X | ID 1/2 |
| | | | Code defining the type of weight | | |
| | | | [32-05] Actual Pallet Weight Qualifier (DG 140) | | |
| | | | [37-05] Actual Box Weight Qualifier (DG 120) | | |
| | | | [49-05] Actual Weight Qualifier (DG 100) | | |
| | | FR | Freight Weight | | |
| | | | [49-05] Freight Weight | | |
| | | PA | Pallet Weight | | |
| | | | [32-05] Pallet Weight | | |
| | | Z | Mutually Defined | | |
| | | | [37-05] Mutually Defined | | |
| | L006 | 183 | Volume | X | R 1/8 |
| | | | Value of volumetric measure | | |
| | | | [49-06] Cube of Bill of Lading Line Item (DG 100) | | |
| | L007 | 184 | Volume Unit Qualifier | X | ID 1/1 |
| | | | Code identifying the volume unit | | |
| | | | [49-07] Cube Unit Qualifier (DG 100) | | |
| | | E | Cubic Feet | | |
| | | | [49-07] Cubic Feet | | |
| | | N | Cubic Inches | | |
| | | | [49-07] Cubic Inches | | |
| >> | L008 | 80 | Lading Quantity | X | N0 1/7 |
| | | | Number of units (pieces) of the lading commodity | | |
| | | | [49-08] Actual Quantity of Bill of Lading Line Item (DG 100) | | |
| | | | This element carries the quantity of the units of sale shipped under this line item. | | |
| >> | L009 | 211 | Packaging Form Code | X | ID 3/3 |
| | | | Code for packaging form of the lading quantity | | |
| | | | [49-09] Packaging Form Code (DG 100) | | |
| | | | This data element qualifies the quantity of NDC units identified in the L008 data element 80. | | |
| | | | CHANGE NOTE: "PLL" Migration Code value added per DM 0549. | | |
| | | PLL | New Code Added by IC | | |
| | | | [49-09] [Migration Code] 463L Air Pallet | | |
| | | PLT | Pallet | | |
| | | | [49-09] Pallet | | |
| | | UNT | Unit | | |
| | | | [49-09] Unit | | |
| X | L010 | 458 | Dunnage Description | O | AN 2/25 |
| | | | Material used to protect lading | | |
| X | L011 | 188 | Weight Unit Code | O | ID 1/1 |
| | | | Code specifying the weight unit | | |
| | | | Refer to 004010 Data Element Dictionary for acceptable code values. | | |
| X | L012 | 56 | Type of Service Code | O | ID 2/2 |
| | | | Code specifying extent of transportation service requested | | |
| | | | Refer to 004010 Data Element Dictionary for acceptable code values. | | |
| | L013 | 380 | Quantity | X | R 1/15 |
| | | | Numeric value of quantity | | |
| | | | [49-13] Freight Pieces (DG 100) | | |
| | | | Use to distinguish between total freight pieces and quantity of items shipped (e.g., shipping a quantity of 15, where total freight pieces = 1 box and quantity of items shipped = 15). | | |

| | | | | |
|----------|-------------|-------------|---|--------------------------|
| X | L014 | 211 | Packaging Form Code | O ID 3/3 |
| | | | Code for packaging form of the lading quantity | |
| | | | Refer to 004010 Data Element Dictionary for acceptable code values. | |
| | L015 | 1073 | Yes/No Condition or Response Code | X ID 1/1 |
| | | | Code indicating a Yes or No condition or response | |
| | | | [49-15] Freight Pieces Qualifier (DG 100) | |
| | | | N | No |
| | | | | [49-15] No |
| | | | | Use 'N' to denote Number |

Segment: **L1 Rate and Charges**
Position: 150
Loop: L0 Optional (Must Use)
Level: Detail
Usage: Optional
Max Use: 20
Purpose: To specify rate and charges detail relative to a line item including freight charges, advances, special charges, and entitlements

Syntax Notes:
1 If either L102 or L103 is present, then the other is required.
2 At least one of L104 L105 or L106 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.

Comments:

Notes: [58] L1 SEGMENT - Accessorial Service Charge (DG 301)
 SEGMENT CONDITION: Use if Accessorial Service Charge applies

Data Element Summary

| <u>Ref.</u> | <u>Data</u> | <u>Name</u> | <u>Attributes</u> |
|-------------|----------------|--|-------------------|
| <u>Des.</u> | <u>Element</u> | | |
| X | L101 | 213 Lading Line Item Number Sequential line number for a lading item | O N0 1/3 |
| X | L102 | 60 Freight Rate Rate that applies to the specific commodity | X R 1/9 |
| X | L103 | 122 Rate/Value Qualifier Code qualifying how to extend charges or interpret value Refer to 004010 Data Element Dictionary for acceptable code values. | X ID 2/2 |
| >> | L104 | 58 Charge For a line item: freight or special charge; for the total invoice: the total charges -- expressed in the standard monetary denomination for the currency specified [58-04] Service Charge (DG 301) The charge for an accessorial service. Use up to 9-digits with an implied decimal at the second position. | X N2 1/12 |
| X | L105 | 191 Advances Incidental charges occurring during transportation which are not generally considered to be freight charges (examples - stop charges, diversion and reconsignment, icing) expressed in the standard monetary denomination for the currency specified | X N2 1/9 |
| X | L106 | 117 Prepaid Amount Money paid at point of origin (usually by shipper) expressed in the standard monetary denomination for the currency specified | X N2 1/9 |
| X | L107 | 120 Rate Combination Point Code The code denoting the connecting station for a joint rate obtained by combining two or more published rates which are used for the calculation of transportation charges Refer to 004010 Data Element Dictionary for acceptable code values. | O AN 3/9 |
| >> | L108 | 150 Special Charge or Allowance Code Code identifying type of special charge or allowance [58-08] Service Code (DG 301) When implementation requirements are identified, DoD will develop a complete list of service codes. 400 Freight [58-08] Freight Use '400' to denote Normal | O ID 3/3 |

| | |
|-----|--|
| HAZ | Hazardous Cargo Charge [58-08] Hazardous Cargo Charge Use 'HAZ' to denote HAZMAT |
| REF | Refrigeration [58-08] Refrigeration Use 'REF' to denote Perishable |
| ZZZ | Mutually Defined [58-08] Mutually Defined |

| | | | | |
|---|------|-----|---|-----------|
| X | L109 | 121 | Rate Class Code Code identifying specifically designated class of goods; Note: For international air shipments, see IATA Resolution 600k Refer to 004010 Data Element Dictionary for acceptable code values. | O ID 1/3 |
| X | L110 | 39 | Entitlement Code Code identifying entitlement party Refer to 004010 Data Element Dictionary for acceptable code values. | O ID 1/1 |
| X | L111 | 16 | Charge Method of Payment Code defining method of payment Refer to 004010 Data Element Dictionary for acceptable code values. | O ID 1/1 |
| X | L112 | 276 | Special Charge Description Identification of special charge; this data element is used whenever an applicable code cannot be found in data element 150 | O AN 2/25 |
| X | L113 | 257 | Tariff Application Code Code indicating to which traffic a tariff applies Refer to 004010 Data Element Dictionary for acceptable code values. | O ID 1/1 |
| X | L114 | 74 | Declared Value Monetary assigned value expressed in the standard monetary denomination for the currency specified | X N2 2/12 |
| X | L115 | 122 | Rate/Value Qualifier Code qualifying how to extend charges or interpret value Refer to 004010 Data Element Dictionary for acceptable code values. | X ID 2/2 |
| X | L116 | 372 | Lading Liability Code Code identifying limits of liability Refer to 004010 Data Element Dictionary for acceptable code values. | O ID 1/1 |
| X | L117 | 220 | Billed/Rated-as Quantity Basis for rating (miles, value, volume, etc.); Note: Weight may be defined by either data element 220 or 81 | X R 1/11 |
| X | L118 | 221 | Billed/Rated-as Qualifier Code identifying the type of quantity or value on which the rate or item pricing is based Refer to 004010 Data Element Dictionary for acceptable code values. | X ID 2/2 |
| X | L119 | 954 | Percent Percentage expressed as a decimal | O R 1/10 |
| X | L120 | 100 | Currency Code Code (Standard ISO) for country in whose currency the charges are specified | O ID 3/3 |
| X | L121 | 610 | Amount Monetary amount | O N2 1/15 |

Segment: **MEA** Measurements
Position: 160
Loop: L0 Optional (Must Use)
Level: Detail
Usage: Optional
Max Use: 10
Purpose: To specify physical measurements or counts, including dimensions, tolerances, variances, and weights (See Figures Appendix for example of use of C001)

- Syntax Notes:**
- 1 At least one of MEA03 MEA05 MEA06 or MEA08 is required.
 - 2 If MEA05 is present, then MEA04 is required.
 - 3 If MEA06 is present, then MEA04 is required.
 - 4 If MEA07 is present, then at least one of MEA03 MEA05 or MEA06 is required.
 - 5 Only one of MEA08 or MEA03 may be present.

Semantic Notes: 1 MEA04 defines the unit of measure for MEA03, MEA05, and MEA06.

Comments: 1 When citing dimensional tolerances, any measurement requiring a sign (+ or -), or any measurement where a positive (+) value cannot be assumed, use MEA05 as the negative (-) value and MEA06 as the positive (+) value.

Notes: [33] MEA SEGMENT - Pallet Dimensions (DG 140)
Repeat this segment for each pallet dimension. All dimensions are required for all 3PL carrier shipments.
CHANGE NOTE: User note added for clarification per SDDC guidance.
SEGMENT CONDITION: Use if Pallet Weight applies.
[38] MEA SEGMENT - Box Dimensions (DG 120)
CHANGE NOTE: User note added for clarification per SDDC guidance.
SEGMENT CONDITION: Repeat this segment for each box/cooler dimension. All dimensions are required for all 3PL carrier shipments.

Data Element Summary

| Ref. | Data Element | Name | Attributes |
|------|--------------|--|------------|
| >> | MEA01 | 737 Measurement Reference ID Code | O ID 2/2 |
| | | Code identifying the broad category to which a measurement applies | |
| | | [33-01] Pallet Measurement Reference ID Code (DG 140) | |
| | | [38-01] Box Measurement Reference ID Code (DG 120) | |
| | | PA Pallet Dimensions | |
| | | [33-01] Pallet Dimensions | |
| | | PK Package Dimensions | |
| | | [38-01] Package Dimensions | |
| | | Use 'PK' to denote Box Dimensions | |
| >> | MEA02 | 738 Measurement Qualifier | O ID 1/3 |
| | | Code identifying a specific product or process characteristic to which a measurement applies | |
| | | [33-02] Pallet Measurement Qualifier (DG 140) | |
| | | [38-02] Box Measurement Qualifier (DG 120) | |
| | | HT Height | |
| | | [33-02] Height | |
| | | [38-02] Height | |
| | | LN Length | |
| | | [33-02] Length | |
| | | [38-02] Length | |
| | | WD Width | |
| | | [33-02] Width | |
| | | [38-02] Width | |
| >> | MEA03 | 739 Measurement Value | X R 1/20 |
| | | The value of the measurement | |
| | | [33-03] Pallet Measurement Value (DG 140) | |
| | | [38-03] Box Measurement Value (DG 120) | |

| | | | | |
|----|--------|------|--|----------|
| >> | MEA04 | C001 | Composite Unit of Measure | X |
| | | | To identify a composite unit of measure (See Figures Appendix for examples of use) | |
| | | | [33-04] Composite Unit of Measure (DG 140) | |
| | | | C00101 calls for an identifier from the DE 355 code list. | |
| | | | [38-04] Composite Unit of Measure (DG 120) | |
| M | C00101 | 355 | Unit or Basis for Measurement Code | M ID 2/2 |
| | | | Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken | |
| | | | [33-04-01] English Measurement Code (DG 140) | |
| | | | [38-04-01] English Measurement Code (DG 120) | |
| | | | IN Inch | |
| | | | [33-04-01] Inch | |
| | | | [38-04-01] Inch | |
| | C00102 | 1018 | Exponent | O R 1/15 |
| | | | Power to which a unit is raised | |
| | C00103 | 649 | Multiplier | O R 1/10 |
| | | | Value to be used as a multiplier to obtain a new value | |
| | C00104 | 355 | Unit or Basis for Measurement Code | O ID 2/2 |
| | | | Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken | |
| | | | Refer to 004010 Data Element Dictionary for acceptable code values. | |
| | C00105 | 1018 | Exponent | O R 1/15 |
| | | | Power to which a unit is raised | |
| | C00106 | 649 | Multiplier | O R 1/10 |
| | | | Value to be used as a multiplier to obtain a new value | |
| | C00107 | 355 | Unit or Basis for Measurement Code | O ID 2/2 |
| | | | Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken | |
| | | | Refer to 004010 Data Element Dictionary for acceptable code values. | |
| | C00108 | 1018 | Exponent | O R 1/15 |
| | | | Power to which a unit is raised | |
| | C00109 | 649 | Multiplier | O R 1/10 |
| | | | Value to be used as a multiplier to obtain a new value | |
| | C00110 | 355 | Unit or Basis for Measurement Code | O ID 2/2 |
| | | | Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken | |
| | | | Refer to 004010 Data Element Dictionary for acceptable code values. | |
| | C00111 | 1018 | Exponent | O R 1/15 |
| | | | Power to which a unit is raised | |
| | C00112 | 649 | Multiplier | O R 1/10 |
| | | | Value to be used as a multiplier to obtain a new value | |
| | C00113 | 355 | Unit or Basis for Measurement Code | O ID 2/2 |
| | | | Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken | |
| | | | Refer to 004010 Data Element Dictionary for acceptable code values. | |
| | C00114 | 1018 | Exponent | O R 1/15 |
| | | | Power to which a unit is raised | |
| | C00115 | 649 | Multiplier | O R 1/10 |
| | | | Value to be used as a multiplier to obtain a new value | |
| X | MEA05 | 740 | Range Minimum | X R 1/20 |
| | | | The value specifying the minimum of the measurement range | |

| | | | | |
|---|-------|------|--|----------|
| X | MEA06 | 741 | Range Maximum | X R 1/20 |
| | | | The value specifying the maximum of the measurement range | |
| X | MEA07 | 935 | Measurement Significance Code | O ID 2/2 |
| | | | Code used to benchmark, qualify or further define a measurement value | |
| | | | Refer to 004010 Data Element Dictionary for acceptable code values. | |
| X | MEA08 | 936 | Measurement Attribute Code | X ID 2/2 |
| | | | Code used to express an attribute response when a numeric measurement value cannot be determined | |
| | | | Refer to 004010 Data Element Dictionary for acceptable code values. | |
| X | MEA09 | 752 | Surface/Layer/Position Code | O ID 2/2 |
| | | | Code indicating the product surface, layer or position that is being described | |
| | | | Refer to 004010 Data Element Dictionary for acceptable code values. | |
| X | MEA10 | 1373 | Measurement Method or Device | O ID 2/4 |
| | | | The method or device used to record the measurement | |
| | | | Refer to 004010 Data Element Dictionary for acceptable code values. | |

Segment: **LH1** Hazardous Identification Information
Position: 170
Loop: LH1 Optional
Level: Detail
Usage: Optional
Max Use: 1
Purpose: To specify the hazardous commodity identification reference number and quantity
Syntax Notes:
Semantic Notes:
Comments:

- 1 LH101 and LH102 are used to convey the number and type of packages for bulk and nonbulk movements.
- 2 LH106 and LH107 are used to convey the quantity or volume and unit of measure for nonbulk shipments only.
- 3 In LH109, a value of "R" or "P" requires that the receiver generate the words "residue: last contained" prior to the shipping name in accordance with regulations.

Notes: [50] LH1 SEGMENT - HAZMAT Indicator (DG 100) This segment begins the HAZMAT loop. The loop may occur only once per line item. If the shipment calls for a simple HAZMAT indicator, use only the LH1 segment. If the shipment calls for more than an indicator, use the LH1, LH2, and LH3 segments as required.
 SEGMENT CONDITION: Use this segment to indicate when an item is a hazardous material.

Data Element Summary

| | <u>Ref. Des.</u> | <u>Data Element</u> | <u>Name</u> | <u>Attributes</u> |
|----|------------------|---------------------|---|-------------------|
| M | LH101 | 355 | Unit or Basis for Measurement Code Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken [50-01] HAZMAT - Unit of Measure Code (DG 100) If an item requires a HAZMAT indicator ONLY, use code value 'ZZ' in this data element and value zero (0) in LH102. ZZ Mutually Defined [50-01] Mutually Defined | M ID 2/2 |
| M | LH102 | 80 | Lading Quantity Number of units (pieces) of the lading commodity [50-02] HAZMAT - Lading Quantity (DG 100) Use value zero (0). | M N0 1/7 |
| >> | LH103 | 277 | UN/NA Identification Code Code identifying the hazardous material identification number as required by Title 49 of the code of Federal Regulations; UN/NA stands for United Nations/North America [50-03] HAZMAT - UN/NA Identification Code (DG 100) Contains the United Nations/North America (UN/NA) code. SOURCE: Hazardous Materials Regulations of the Department of Transportation by Air, Rail, Highway, and Water available from Association of American Railroads Publications | O ID 6/6 |
| X | LH104 | 200 | Hazardous Materials Page The United Nations page number as required for the international transport of hazardous materials | O AN 1/6 |
| X | LH105 | 22 | Commodity Code Code describing a commodity or group of commodities | O AN 1/30 |
| X | LH106 | 355 | Unit or Basis for Measurement Code Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken Refer to 004010 Data Element Dictionary for acceptable code values. | O ID 2/2 |
| X | LH107 | 380 | Quantity Numeric value of quantity | O R 1/15 |

| | | | | |
|---|--------------|-------------|---|-----------------|
| X | LH108 | 595 | Compartment ID Code | O ID 1/1 |
| | | | Code identifying the compartment in a compartmentalized tank car Refer to 004010 Data Element Dictionary for acceptable code values. | |
| X | LH109 | 665 | Residue Indicator Code | O ID 1/1 |
| | | | Code indicating that the material being described is that which remains in a packaging (including a tank car) after it has been unloaded Refer to 004010 Data Element Dictionary for acceptable code values. | |
| | LH110 | 254 | Packing Group Code | O ID 1/3 |
| | | | Code indicating degree of danger in terms of Roman number I, II or III [50-10] HAZMAT - Packing Group Code (DG 100) Indicate the required packing group using Roman Numeral I, II or III to indicate the degree of danger as shown in column 5 of 49 CFR, Table 172.101. SOURCE: The Canadian Gazette, Part II available from Canadian Government Publishing Centre Supply and Services Canada | |
| X | LH111 | 1375 | Interim Hazardous Material Regulatory Number | O AN 1/5 |
| | | | Identifies the current regulatory version number used for hazardous materials shipments | |

Segment: **LH2 Hazardous Classification Information**
Position: 180
Loop: LH1 Optional
Level: Detail
Usage: Optional
Max Use: 4
Purpose: To specify the hazardous notation and endorsement information
Syntax Notes:

- 1 If either LH206 or LH207 is present, then the other is required.
- 2 If either LH208 or LH209 is present, then the other is required.
- 3 If either LH210 or LH211 is present, then the other is required.

Semantic Notes:

- 1 LH206 and LH207 indicate the flashpoint temperature.
- 2 LH208 and LH209 indicate the control temperature.
- 3 LH210 and LH211 indicate the emergency temperature.

Comments:
Notes: [51] LH2 SEGMENT - HAZMAT Classification (DG 100)
 SEGMENT CONDITION: Use if HAZMAT Classification applies.

Data Element Summary

| <u>Ref.</u> | <u>Data</u> | <u>Element</u> | <u>Name</u> | <u>Attributes</u> |
|-------------|-------------|----------------|---|-------------------|
| >> | LH201 | 215 | Hazardous Classification | O ID 1/30 |
| | | | The hazardous classification corresponding to the shipping name of the hazardous commodity [51-01] HAZMAT - Hazardous Class Division (DG 100) Identify the hazard class or division prescribed for the material as shown in column 3 of 49 CFR 172.101. If there is no hazard class or division, use the code in that column, such as ORM-D (Other Regulated Material), reference 49 CFR 173.2. If there is a subsidiary hazard but no hazard class or division, use code value 'NA'. A material for which the entry in this column is 'Forbidden' may not be offered for transportation nor be transported. This loop needs to be repeated for each subsidiary hazard. SOURCE: Hazardous Materials Regulations of the Department of Transportation by Air, Rail, Highway, and Water available from Association of American Railroads Publications | |
| >> | LH202 | 983 | Hazardous Class Qualifier | O ID 1/1 |
| | | | Code qualifying hazardous class [51-02] HAZMAT - Hazardous Class Qualifier (DG 100) Repeat the LH2 loop as necessary to identify the primary and each subsidiary (secondary) hazard of the material being shipped. P Primary [51-02] Primary S Secondary [51-02] Secondary | |
| X | LH203 | 218 | Hazardous Placard Notation | O ID 14/40 |
| | | | The placard notation corresponding to the hazard class of the hazardous commodity | |
| X | LH204 | 222 | Hazardous Endorsement | O ID 4/25 |
| | | | The placard endorsement that is to be shown on the shipping papers for the hazardous commodity | |
| X | LH205 | 759 | Reportable Quantity Code | O ID 2/2 |
| | | | Code to identify presence of hazardous substance Refer to 004010 Data Element Dictionary for acceptable code values. | |
| X | LH206 | 355 | Unit or Basis for Measurement Code | X ID 2/2 |
| | | | Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken Refer to 004010 Data Element Dictionary for acceptable code values. | |

| | | | | |
|---|-------|-----|--|----------|
| X | LH207 | 408 | Temperature Temperature | X R 1/4 |
| X | LH208 | 355 | Unit or Basis for Measurement Code Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken Refer to 004010 Data Element Dictionary for acceptable code values. | X ID 2/2 |
| X | LH209 | 408 | Temperature Temperature | X R 1/4 |
| X | LH210 | 355 | Unit or Basis for Measurement Code Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken Refer to 004010 Data Element Dictionary for acceptable code values. | X ID 2/2 |
| X | LH211 | 408 | Temperature Temperature | X R 1/4 |

Segment: **LH3 Hazardous Material Shipping Name**
Position: 190
Loop: LH1 Optional
Level: Detail
Usage: Optional
Max Use: 12
Purpose: To specify the hazardous material shipping name and additional descriptive requirements
Syntax Notes: 1 If either LH301 or LH302 is present, then the other is required.
Semantic Notes: 1 If LH304 is "Y", then this is an Association of American Railroads Operations and Transportation Bulletin 55 commodity. If "N", it is not an Association of American Railroads Operations and Transportation Bulletin 55 commodity.
Comments:
Notes: [52] LH3 SEGMENT - HAZMAT Names (DG 100)
 SEGMENT CONDITION: Use if HAZMAT Names apply.

Data Element Summary

| Ref. | Data Element | Name | Attributes |
|------|--------------|---|--|
| >> | LH301 | 224 Hazardous Material Shipping Name | X AN 1/25 |
| | | The proper shipping name of the hazardous commodity as specified by the Code of Federal Regulations, Title 49 [52-01] HAZMAT - Proper Shipping Name (DG 100) From table at 49 CFR 172.101, column 2. MANDATORY for all hazardous material shipments including ammunition and explosives. See 49 CFR 172.202 for additional details. Create additional LH301 segment(s) for remainder of Proper Shipping Name exceeding 25 characters. SOURCE: Hazardous Materials Regulations of the Department of Transportation by Air, Rail, Highway, and Water available from Association of American Railroads Publications | |
| >> | LH302 | 984 Hazardous Material Shipping Name Qualifier | X ID 1/1 |
| | | Qualifier indicating the source (regulatory) of the proper shipping name [52-02] HAZMAT - Proper Shipping Name Qualifier (DG 100) | |
| | | C | Canadian Shipping Name [52-02] Canadian Shipping Name |
| | | D | Domestic (United States) Shipping Name [52-02] Domestic (United States) Shipping Name |
| | | I | International Shipping Name [52-02] International Shipping Name |
| X | LH303 | 985 N.O.S. Indicator Code | O ID 3/3 |
| | | Code indicating the type of regulatory requirements that apply to a description; N.O.S. stands for Not Otherwise Specified Refer to 004010 Data Element Dictionary for acceptable code values. | |
| X | LH304 | 1073 Yes/No Condition or Response Code | O ID 1/1 |
| | | Code indicating a Yes or No condition or response Refer to 004010 Data Element Dictionary for acceptable code values. | |

Segment: **N1** Name
Position: 290
Loop: N1 Optional
Level: Detail
Usage: Optional
Max Use: 1
Purpose: To identify a party by type of organization, name, and code
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:
Comments: 1 This segment, used alone, provides the most efficient method of providing organizational identification. To obtain this efficiency the "ID Code" (N104) must provide a key to the table maintained by the transaction processing party.
 2 N105 and N106 further define the type of entity in N101.
Notes: [53] N1 SEGMENT - Consignee DoDAAC (DG 100)
 SEGMENT CONDITION: The consignee DoDAAC should be derived from the Purchase Order.

Data Element Summary

| Ref. | Data Element | Name | Attributes |
|------|--------------|---|------------|
| M | N101 | 98 Entity Identifier Code | M ID 2/3 |
| | | Code identifying an organizational entity, a physical location, property or an individual | |
| | | [53-01] Consignee Qualifier (DG 100) | |
| | | CN Consignee | |
| | | [53-01] Consignee | |
| X | N102 | 93 Name | X AN 1/60 |
| | | Free-form name | |
| | N103 | 66 Identification Code Qualifier | X ID 1/2 |
| | | Code designating the system/method of code structure used for Identification Code (67) | |
| | | [53-03] Consignee DoDAAC Qualifier (DG 100) | |
| | | 10 Department of Defense Activity Address Code (DODAAC) | |
| | | [53-03] Department of Defense Activity Address Code (DODAAC) | |
| | N104 | 67 Identification Code | X AN 2/80 |
| | | Code identifying a party or other code | |
| | | [53-04] Consignee DoDAAC (DG 100) | |
| X | N105 | 706 Entity Relationship Code | O ID 2/2 |
| | | Code describing entity relationship | |
| | | Refer to 004010 Data Element Dictionary for acceptable code values. | |
| X | N106 | 98 Entity Identifier Code | O ID 2/3 |
| | | Code identifying an organizational entity, a physical location, property or an individual | |
| | | Refer to 004010 Data Element Dictionary for acceptable code values. | |

Segment: L3 Total Weight and Charges
Position: 010
Loop:
Level: Summary
Usage: Optional (Must Use)
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 L312 is present, then L301 is required.
 - 5 If either L314 or L315 is present, then the other is required.

Semantic Notes: 1 L305 is the total charges.

Comments:

Notes: [59] L3 SEGMENT - Totals for Shipment (DG 900)

Data Element Summary

| Ref. | Data | Attributes | |
|-------------|----------------|--|-------------------|
| <u>Des.</u> | <u>Element</u> | <u>Name</u> | <u>Attributes</u> |
| >> | L301 | 81 Weight | X R 1/10 |
| | | Numeric value of weight | |
| | | [59-01] Total Actual Weight of Shipment (DG 900) See Section 9.0 (DTEDI Air Freight Bill of Lading Implementation Convention) for instruction about calculating the greater of actual or dimensional (GAD) weight. | |
| >> | L302 | 187 Weight Qualifier | X ID 1/2 |
| | | Code defining the type of weight | |
| | | [59-02] GAD Weight Qualifier (DG 900) | |
| | | G | Gross Weight |
| | | [59-02] Gross Weight | |
| X | L303 | 60 Freight Rate | X R 1/9 |
| | | Rate that applies to the specific commodity | |
| X | L304 | 122 Rate/Value Qualifier | X ID 2/2 |
| | | Code qualifying how to extend charges or interpret value | |
| | | Refer to 004010 Data Element Dictionary for acceptable code values. | |
| | L305 | 58 Charge | O N2 1/12 |
| | | For a line item: freight or special charge; for the total invoice: the total charges -- expressed in the standard monetary denomination for the currency specified | |
| | | [59-05] Total Charge for the Shipment (DG 900) | |
| X | L306 | 191 Advances | O N2 1/9 |
| | | Incidental charges occurring during transportation which are not generally considered to be freight charges (examples - stop charges, diversion and reconsignment, icing) expressed in the standard monetary denomination for the currency specified | |
| X | L307 | 117 Prepaid Amount | O N2 1/9 |
| | | Money paid at point of origin (usually by shipper) expressed in the standard monetary denomination for the currency specified | |
| X | L308 | 150 Special Charge or Allowance Code | O ID 3/3 |
| | | Code identifying type of special charge or allowance | |
| | | Refer to 004010 Data Element Dictionary for acceptable code values. | |
| | L309 | 183 Volume | X R 1/8 |
| | | Value of volumetric measure | |
| | | [59-09] Total Cube of Shipment (DG 900) | |

| | | | | | |
|----------|-------------|------------|---|----------|----------------|
| | L310 | 184 | Volume Unit Qualifier Code identifying the volume unit [59-10] Total Cube Unit Qualifier (DG 900) E Cubic Feet [59-10] Cubic Feet | X | ID 1/1 |
| X | L311 | 80 | Lading Quantity Number of units (pieces) of the lading commodity | O | N0 1/7 |
| X | L312 | 188 | Weight Unit Code Code specifying the weight unit Refer to 004010 Data Element Dictionary for acceptable code values. | O | ID 1/1 |
| X | L313 | 171 | Tariff Number Standard tariff number for the tariff which governs the rates applied to the commodity item(s) | O | AN 1/7 |
| X | L314 | 74 | Declared Value Monetary assigned value expressed in the standard monetary denomination for the currency specified | X | N2 2/12 |
| X | L315 | 122 | Rate/Value Qualifier Code qualifying how to extend charges or interpret value Refer to 004010 Data Element Dictionary for acceptable code values. | X | ID 2/2 |

Segment: **SE** Transaction Set Trailer
Position: 020
Loop:
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)

Syntax Notes:

Semantic Notes:

Comments: 1 SE is the last segment of each transaction set.

Notes: [60] SE SEGMENT - Air Freight Bill of Lading Trailer (DG 900)

Data Element Summary

| | Ref. | Data | Name | Attributes |
|---|-------------|----------------|---|-------------------|
| | Des. | Element | | |
| M | SE01 | 96 | Number of Included Segments | M N0 1/10 |
| | | | Total number of segments included in a transaction set including ST and SE segments | |
| | | | [60-01] Number of Included Segments (DG 900) | |
| | | | Total segments in this transaction set including the ST and SE segments. | |
| M | SE02 | 329 | Transaction Set Control Number | M AN 4/9 |
| | | | Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set | |
| | | | [60-02] Transaction Set Control Number (DG 900) | |
| | | | This data element ends the transaction set and should match the number that appears in the ST02 that begins the transaction set. | |

Section 4.0

IC ELEMENT MATRIX

OVERVIEW

In order to implement an EDI transaction set, trading partners need to identify the application data elements they plan to exchange, identify where they plan to carry the data within the structure of the EDI transaction (a task commonly called mapping), identify any additional X12 data such as qualifier codes, and publish that information in an implementation convention (IC). This section contains an IC element matrix that lists that information.

PURPOSE

Using the IC element matrix will expedite mapping of an application database into a commercial EDI translation package. This IC element matrix applies to a specific application database, which is described in the Application Notes section below.

HOW TO READ THE IC ELEMENT MATRIX

To read the matrix, trading partners need to understand matrix record types, two categories of matrix information, the matrix layout, and the sort order of the matrix.

Record Types

The matrix contains two types of records: segment header records and element records.

- Segment header records begin the description of a segment. Each segment header record starts the description of a discrete occurrence of an X12 segment. The element records (see below) that follow a segment header record cannot be co-mingled with elements from other segments, including those segments with matching IDs.
- Element records identify an individual data element that occurs within a segment. Each element satisfies either an application requirement or X12 standard syntax. If one element in a segment is passed, all elements in the segment need to be passed in accordance with the IC requirement designator.

Two Categories of Record Information

The matrix contains two categories of information: IC application information and *ASC* X12 information.

- IC application information describes attributes outside the structure and syntax of the *ASC* X12 standard.
- *ASC* X12 information is attached to each IC element. That information is extracted directly from the X12 standard dictionary and enables programmers to map the IC element into the standards.

Matrix Layout

The IC element matrix lists information in sixteen columns.

- IC Index Number (Index) enables designers and programmers to quickly cite a record in the matrix.
- IC Data Group Number (DG) is a number assigned by the IC developers. That number identifies an IC element with a group of elements that form a database table within the application data model. In order to quickly reference a table, Defense transportation developers label database tables with a Data Group number. For example, a “Bill To Address” may belong to the “PURCHASE ORDER” parent table with GRP = 10. A “Stop-off Delivery Address” may belong to the “ITEM DELIVERY” child table with GRP = 60.
- IC Data Element Name (Data Name) is a label for each data element using terminology common to the business environment. The IC element matrix identifies an element as a “Route Order Number Qualifier.” This is more concise than using the generic X12 label of “Qualifier.” A segment header record identifies the segment ID in this field.
- IC Notes & Codes (DoD Information Notes and Codes) can contain application notes about various segment and element conditions or requirements. This column may also list both X12 standard codes and DoD unique codes. If the list is larger than 20 codes, it may appear in the section that contains Code Lists.
- IC Attributes (Attributes). When part of a segment header record, this column indicates the usage of the segment. When part of an element record, this column indicates the usage of the element within the segment, if the segment is used. Attributes may differ from those in the *ASC* X12 standard. For example, if trading partners expect to exchange a purchase order number that has a specific length and structure, those attributes are described here. Attributes include requirement designator, data element type, minimum length and maximum length.
- X12 Transaction Set Table Number (Tabl).
- X12 Segment Position (Pos).
- X12 Requirement Designator (Req Des) . This column applies only to Segment Header type matrix records.
- X12 Maximum Usage (Max Use). This column applies only to Segment Header type matrix records.
- X12 Loop Repeat (Lp Rpt) indicates the number of times a loop may be used. This column applies only to Segment Header type matrix records.
- X12 Loop Level (Lp Lv). Loops may be nested within other loops. This column indicates the nesting level for each loop and applies only to Segment Header type matrix records.
- X12 Loop ID (Lp ID). This column applies only to Segment Header type matrix records.
- X12 Segment Reference Designator (Ref Des) . This column applies only to Element type matrix records.
- X12 Simple or Composite Data Element Number (DE#). This column applies only to Element type matrix records.

- X12 Simple Data Element Attributes (Attributes). Attributes listed include the data element requirement designator, data element type, minimum length and maximum length. This column applies only to Element type matrix records.
- X12 Composite Data Element Attributes ((Composite) Attributes) . Attributes listed include the simple data element number, requirement designator, data element type, minimum length and maximum length. This column applies only to Element type matrix records.

Sort Order of the Matrix

The matrix presents IC elements in an order that enables programmers to generate application-to-translator interface files (also known as user-defined files or UDFs) that are syntactically correct to ASC X12 standards. IC elements are grouped under segment header records. When exchanging an IC element, the programmer needs to generate the entire segment under which the element is listed. Likewise, when exchanging a segment, the programmer needs to generate the entire loop structure to which the segment belongs.

APPLICATION NOTES

The IC element matrix in this section maps data requirements for the air freight bill of lading into the ASC X12 Transaction Set 858 Shipment Information. The government and commercial trading partners who participated in the Defense Logistics Agency's EDI Prime Vendor Prototype developed these requirements. This requirement conforms to data reduction and commercial billing practices identified in Management Reform Memorandum 15. Further, it meets requirements for providing intransit visibility information to USTRANSCOM's Global Transportation Network (GTN).

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TRANSPORTATION EDI CONVENTION

DoD VENDOR SHIPMENT INFORMATION
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| DoD INFORMATION | | | | | X12 SEGMENT INFORMATION | | | | | | X12 ELEMENT INFORMATION | | | | | |
|-----------------|----|--|-------------------------------|----|-------------------------|-----|------------|------------|--------|--------|-------------------------|---------|------|------------|----|-----|
| Index | DG | Data Name Notes and Codes | DoD Recommended Attributes | | Tabl | Pos | Req Des | Max Use | Lp Rpt | Lp Lvl | Lp ID | Ref Des | DE # | Attributes | | |
| 1 | 10 | ST SEGMENT - Air Freight Bill of Lading Header | M | | 1 | 010 | M | 1 | | | | | | | | |
| 1-01 | 10 | Transaction Set Identifier Code 858 - Shipment Information | M | ID | 3/3 | 1 | 010 | M | 1 | | | ST01 | 143 | M | ID | 3/3 |
| 1-02 | 10 | Transaction Set Control Number Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set. The application and structure of the control number must be agreed upon between trading partners. (For example, the first five digits might indicate a group control number, with the last four digits representing the sequence of the transaction set within the functional group. Otherwise, the entire nine digit field may simply represent the sequence of the transaction set generated by a trading partner.) | M | AN | 4/9 | 1 | 010 | M | 1 | | | ST02 | 329 | M | AN | 4/9 |
| 2 | 10 | BX SEGMENT - Air Freight Bill of Lading Beginning Segment | M | | | 1 | 030 | M | 1 | | | | | | | |
| 2-01 | 10 | Transaction Set Purpose Code Use of code '04' calls for the receiver to replace their most recent copy of the transaction. 00 - Original 01 - Cancellation 04 - Change | M | ID | 2/2 | 1 | 030 | M | 1 | | | BX01 | 353 | M | ID | 2/2 |
| 2-02 | 10 | Transportation Method/Type Code (Mode Code) 7 - Mail AF - Air Freight C - Consolidation <i>Use 'C' to denote CCP Shipment.</i> M - Motor (Common Carrier) <i>Use 'M' to denote Surface Freight Forwarder.</i> MP - Motor (Package Carrier) <i>Use 'MP' to denote Small Package Express Carrier.</i> ZZ - Mutually defined <i>Use 'ZZ' to denote Other.</i> | M | ID | 1/2 | 1 | 030 | M | 1 | | | BX02 | 91 | M | ID | 1/2 |

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| DoD INFORMATION | | | | | X12 SEGMENT INFORMATION | | | | | | X12 ELEMENT INFORMATION | | | | | |
|-----------------|----|---|-------------------------------|----|-------------------------|-----|------------|------------|--------|--------|-------------------------|---------|------|------------|----|---|
| Index | DG | Data Name Notes and Codes | DoD Recommended Attributes | | Tabl | Pos | Req Des | Max Use | Lp Rpt | Lp Lvl | Lp ID | Ref Des | DE # | Attributes | | |
| 2-03 | 10 | Shipment Method of Payment CD - Collect on Delivery PP - Prepaid (by Seller) <i>Use 'PP' to denote DVD ITV prototype.</i> TP - Third Party Pay | M | ID | 2/2 | 1 | 030 | M | 1 | | | BX03 | 146 | M | ID | 2/2 |
| 2-04 | 10 | Bill of Lading Number Use this element for the shipment ID assigned by the shipper. When generating bill of lading numbers, follow guidance provided by the X12 dictionary definition of data element 145. | M | AN | 1/30 | 1 | 030 | M | 1 | | | BX04 | 145 | O | AN | 1/30 |
| 2-05 | 10 | Standard Carrier Alpha Code The industry assigned alpha code representing the carrier who received the shipment. SOURCE: Directory of Standard Multi-Model Carriers and Tariff Agents Codes (SCAC-STAC), NMF 101 Series available from National Motor Freight Association, Inc. | M | ID | 2/4 | 1 | 030 | M | 1 | | | BX05 | 140 | O | ID | 2/4 |
| 2-07 | 10 | Shipment Type Qualifier C - Consolidated Shipment <i>Use 'C' to denote rate is a contract rate.</i> | C | ID | 1/1 | 1 | 030 | M | 1 | | | BX07 | 147 | O | ID | 1/1 |
| 3 | 10 | N9 SEGMENT - Purchase Order Invoice Number SEGMENT CONDITION: Use when Purchase Order Invoice Number applies. | C | | | 1 | 060 | O | 30 | | | | | | | See X12 Standards for explanation of syntax notes. R0203C0605 |
| 3-01 | 10 | PO Invoice Number Qualifier PO - Purchase Order Number | M | ID | 2/2 | 1 | 060 | O | 30 | | | N901 | 128 | M | ID | 2/3 |
| 3-02 | 10 | PO Invoice Number | M | AN | 1/30 | 1 | 060 | O | 30 | | | N902 | 127 | C | AN | 1/30 |
| 4 | 10 | N9 SEGMENT - Carrier Assigned Shipment ID SEGMENT CONDITION: Use when the shipment ID assigned by the carrier, such as a PRO number applies. | M | | | 1 | 060 | O | 30 | | | | | | | See X12 Standards for explanation of syntax notes. R0203C0605 |
| 4-01 | 10 | Carrier Assigned Shipment ID Qualifier CHANGE NOTE: Replaces 'ZZ' code user note per DM 1007. CN - Carrier's Reference Number (PRO/Invoice) | M | ID | 2/2 | 1 | 060 | O | 30 | | | N901 | 128 | M | ID | 2/3 |
| 4-02 | 10 | Carrier Assigned Shipment ID When generating shipment ID numbers for this data element 127, follow guidance provided by the X12 dictionary definition of data element 145. | M | AN | 1/30 | 1 | 060 | O | 30 | | | N902 | 127 | C | AN | 1/30 |

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| DoD INFORMATION | | | | X12 SEGMENT INFORMATION | | | | | | | X12 ELEMENT INFORMATION | | | |
|-----------------|----|---|-------------------------------|-------------------------|-----|------------|------------|--------|--------|-------|-------------------------|------|------------|--|
| Index | DG | Data Name Notes and Codes | DoD Recommended Attributes | Tabl | Pos | Req Des | Max Use | Lp Rpt | Lp Lvl | Lp ID | Ref Des | DE # | Attributes | |
| 5 | 10 | N9 SEGMENT - Carrier Contract/Tender Number SEGMENT CONDITION: Use when Carrier Contract/Tender Number applies. | C | 1 | 060 | O | 30 | | | | | | | |
| | | | | | | | | | | | | | | See X12 Standards for explanation of syntax notes. R0203C0605 |
| 5-01 | 10 | Carrier Contract Number Qualifier GC - Government Contract Number ZZ - Mutually Defined <i>Use 'ZZ' to denote Tender Number.</i> | M ID 2/2 | 1 | 060 | O | 30 | | | | N901 | 128 | M ID | 2/3 |
| 5-02 | 10 | Carrier Contract Number The contract number assigned by the Government to the carrier. Government customers use this number when placing orders with the carrier. | M AN 1/30 | 1 | 060 | O | 30 | | | | N902 | 127 | C AN | 1/30 |
| 6 | 10 | N9 SEGMENT - Issue Priority Designator SEGMENT CONDITION: Use if Military Standard Requisitioning and Issue Procedures (MILSTRIP) apply. Describes the priority of the items being shipped. | C | 1 | 060 | O | 30 | | | | | | | See X12 Standards for explanation of syntax notes. R0203C0605 |
| 6-01 | 10 | Issue Priority Designator Qualifier PH - Priority Rating | M ID 2/2 | 1 | 060 | O | 30 | | | | N901 | 128 | M ID | 2/3 |
| 6-02 | 10 | Issue Priority Designator Issue priority designator can range from 1 to 15. | M AN 1/2 | 1 | 060 | O | 30 | | | | N902 | 127 | C AN | 1/30 |
| 7 | 10 | C3 SEGMENT - Currency Code SEGMENT CONDITION: The segment is not required, and will not be used, when currency is in U.S. Dollars. This segment indicates the currency used for the bill of lading. | C | 1 | 090 | O | 1 | | | | | | | |
| 7-01 | 10 | Currency Code Data element C301 indicates a particular country's/region's currency used for all items on the Bill of Lading. (For example, the code value for EURO dollars is 'EUR'.) Other appropriate currency code values from the ISO 4217 table may be found on the web at: http://www.iso.org/iso/en/prods-services/popstds/currencycodeslist.html SOURCE: Code for Representation of Names of Countries, Geopolitical Entities, Names, and Codes (GENC), is represented in the National System for Geospatial Intelligence (NSG) GENC Registry and mirrored at http://www.transcom.mil/dteb/files/refdata/V_CTRY_DOD.htm . Codes for Representation of Currencies and Funds, ISO 4217, is available from American National Standards Institute. | M ID 3/3 | 1 | 090 | O | 1 | | | | C301 | 100 | M ID | 3/3 |
| 8 | 10 | G62 SEGMENT - Required Delivery Date (RDD) SEGMENT CONDITION: Required for repair parts pilots. | C | 1 | 110 | O | 10 | | | | | | | See X12 Standards for explanation of syntax notes. R0103P0102P0304 |

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| DoD INFORMATION | | | | | | X12 SEGMENT INFORMATION | | | | | | X12 ELEMENT INFORMATION | | | | |
|-----------------|----|---|-------------------------------|----|-----|-------------------------|-----|------------|------------|--------|--------|-------------------------|---------|------|------------|--|
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| 8-01 | 10 | Required Delivery Date (RDD) Qualifier 68 - Requested Delivery Date <i>Use '68' to denote Required Delivery Date.</i> | M | ID | 2/2 | 1 | 110 | O | 10 | | | | G6201 | 432 | C | ID 2/2 |
| 8-02 | 10 | Required Delivery Date (RDD) | M | DT | 8/8 | 1 | 110 | O | 10 | | | | G6202 | 373 | C | DT 8/8 |
| 9 | 10 | G62 SEGMENT - Carrier Pickup Date SEGMENT CONDITION: Required for FOB origin shipments. | C | | | 1 | 110 | O | 10 | | | | | | | See X12 Standards for explanation of syntax notes. R0103P0102P0304 |
| 9-01 | 10 | Date Qualifier 86 - Actual Pickup Date | M | ID | 2/2 | 1 | 110 | O | 10 | | | | G6201 | 432 | C | ID 2/2 |
| 9-02 | 10 | Carrier Pickup Date Date shipment is picked up from the shipper by the carrier. Use CCYYMMDD format. Required for FOB origin shipments. CHANGE NOTE: Requirement designation changed. | C | DT | 8/8 | 1 | 110 | O | 10 | | | | G6202 | 373 | C | DT 8/8 |
| 9-03 | 10 | Time Qualifier 8 - Actual Pickup Time | C | ID | 1/1 | 1 | 110 | O | 10 | | | | G6203 | 176 | C | ID 1/2 |
| 9-04 | 10 | Carrier Pickup Time Time shipment is picked up from the shipper by the carrier. Use HHMM format. | C | TM | 4/4 | 1 | 110 | O | 10 | | | | G6204 | 337 | C | TM 4/8 |
| 10 | 10 | H3 SEGMENT - Split Shipment Indicator SEGMENT CONDITION: Use this segment when the shipment is split. The shipper may need to split the shipment when items from the same purchase order need to be shipped in separate packages or on separate conveyances. Additionally, purchase order line item numbers need to be conveyed on the B/L to enable the consignee to reconcile split shipments. | C | | | 1 | 200 | O | 20 | | | | | | | See X12 Standards for explanation of syntax notes. E0102 |
| 10-01 | 10 | Split Shipment Indicator ZZZ - Mutually Defined <i>Use 'ZZZ' to denote The shipment was split at origin or enroute.</i> | C | ID | 3/3 | 1 | 200 | O | 20 | | | | H301 | 152 | C | ID 2/3 |
| 11 | 70 | N1 SEGMENT - Destination Begins destination identifier loop. This loop calls for N1, N2, N3, and N4 segments. | M | | | 1 | 390 | O | 1 | 12 | 1 | N1 | | | | See X12 Standards for explanation of syntax notes. R0203P0304 |
| 11-01 | 70 | Entity Identifier Code ST - Ship To | M | ID | 2/2 | 1 | 390 | O | 1 | 12 | 1 | N1 | N101 | 98 | M | ID 2/3 |

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| 11-02 | 70 | Destination Name Name of party responsible for receiving delivery of the shipment. If DoDAAC is not available, this data element is MANDATORY. | C | AN | 1/60 | 1 | 390 | O | 1 | 12 | 1 | N1 | N102 | 93 | C | AN | 1/60 |
| 11-03 | 70 | Identification Code Qualifier 1 - D-U-N-S Number, Dun & Bradstreet 10 - Department of Defense Activity Address Code (DODAAC) 33 - Commercial and Government Entity (CAGE) 9 - D-U-N-S+4, D-U-N-S Number with Four Character Suffix | C | ID | 1/2 | 1 | 390 | O | 1 | 12 | 1 | N1 | N103 | 66 | C | ID | 1/2 |
| 11-04 | 70 | Destination DoDAAC/CAGE/D-U-N-S Number/D-U-N-S+4 Code that identifies the activity responsible for receiving delivery of the shipment. Required for DLA prime vendor shipments. | C | AN | 5/13 | 1 | 390 | O | 1 | 12 | 1 | N1 | N104 | 67 | C | AN | 2/80 |
| 12 | 70 | N2 SEGMENT - Destination SEGMENT CONDITION: Use when Destination Additional Name applies. | C | | | 1 | 400 | O | 2 | 12 | 1 | N1 | | | | | |
| 12-01 | 70 | Destination Additional Name | M | AN | 1/60 | 1 | 400 | O | 2 | 12 | 1 | N1 | N201 | 93 | M | AN | 1/60 |
| 13 | 70 | N3 SEGMENT - Destination SEGMENT CONDITION: Use when Destination Street Address applies. | C | | | 1 | 410 | O | 2 | 12 | 1 | N1 | | | | | |
| 13-01 | 70 | Destination Street | M | AN | 1/55 | 1 | 410 | O | 2 | 12 | 1 | N1 | N301 | 166 | M | AN | 1/55 |
| 13-02 | 70 | Destination Street Additional | C | AN | 1/55 | 1 | 410 | O | 2 | 12 | 1 | N1 | N302 | 166 | O | AN | 1/55 |
| 14 | 70 | N4 SEGMENT - Destination | M | | | 1 | 420 | O | 1 | 12 | 1 | N1 | | | | | |
| | | | | | | | | | | | | | | | | | See X12 Standards for explanation of syntax notes. C0605 |
| 14-01 | 70 | Destination City | M | AN | 2/30 | 1 | 420 | O | 1 | 12 | 1 | N1 | N401 | 19 | O | AN | 2/30 |
| 14-02 | 70 | Destination State or Province Code If a CONUS location, this element is MANDATORY. SOURCE: National Zip Code and Post Office Directory available from U.S. Postal Service National Information Data Center | C | ID | 2/2 | 1 | 420 | O | 1 | 12 | 1 | N1 | N402 | 156 | O | ID | 2/2 |

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| 14-03 | 70 | Destination Postal Code If a CONUS location, this element is MANDATORY. SOURCE: National ZIP Code and Post Office Directory, Publication 65 available from U.S Postal Service; The USPS Domestic Mail Manual available from New Orders Superintendent of Documents | C | ID | 3/15 | 1 | 420 | O | 1 | 12 | 1 | N1 | N403 | 116 | O | ID | 3/15 |
| 14-04 | 70 | Destination Country Code When the shipment will move outside the country of origin, this element is MANDATORY. Use the abbreviation code for the country where delivery will occur. SOURCE: Code for Representation of Names of Countries, Geopolitical Entities, Names, and Codes (GENC), is represented in the National System for Geospatial Intelligence (NSG) GENC Registry and mirrored at http://www.transcom.mil/dteb/files/refdata/V_CTRY_DOD.htm . Codes for Representation of Currencies and Funds, ISO 4217, is available from American National Standards Institute. | C | ID | 2/3 | 1 | 420 | O | 1 | 12 | 1 | N1 | N404 | 26 | O | ID | 2/3 |
| 15 | 71 | N1 SEGMENT - Origin Begins origin identifier loop. This loop calls for N1, N2, N3, and N4 segments. | M | | | 1 | 390 | O | 1 | 12 | 1 | N1 | See X12 Standards for explanation of syntax notes. R0203P0304 | | | | |
| 15-01 | 71 | Entity Identifier Code SF - Ship From | M | ID | 2/2 | 1 | 390 | O | 1 | 12 | 1 | N1 | N101 | 98 | M | ID | 2/3 |
| 15-02 | 71 | Origin Name | C | AN | 1/60 | 1 | 390 | O | 1 | 12 | 1 | N1 | N102 | 93 | C | AN | 1/60 |
| 15-03 | 71 | Identification Code Qualifier 1 - D-U-N-S Number, Dun & Bradstreet 10 - Department of Defense Activity Address Code (DODAAC) 33 - Commercial and Government Entity (CAGE) 9 - D-U-N-S+4, D-U-N-S Number with Four Character Suffix | M | ID | 1/2 | 1 | 390 | O | 1 | 12 | 1 | N1 | N103 | 66 | C | ID | 1/2 |
| 15-04 | 71 | Origin DoDAAC/CAGE/D-U-N-S Number/D-U-N-S+4 Identification code of the responsible activity at the pickup location. Required for DLA prime vendor shipments. | M | AN | 5/13 | 1 | 390 | O | 1 | 12 | 1 | N1 | N104 | 67 | C | AN | 2/80 |
| 16 | 71 | N2 SEGMENT - Origin SEGMENT CONDITION: Use when Origin Additional Name applies. | C | | | 1 | 400 | O | 2 | 12 | 1 | N1 | | | | | |
| 16-01 | 71 | Origin additional Name | M | AN | 1/60 | 1 | 400 | O | 2 | 12 | 1 | N1 | N201 | 93 | M | AN | 1/60 |
| 17 | 71 | N3 SEGMENT - Origin SEGMENT CONDITION: Use when Origin Street applies. | C | | | 1 | 410 | O | 2 | 12 | 1 | N1 | | | | | |

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| 17-01 | 71 | Origin Street | M | AN | 1/55 | 1 | 410 | O | 2 | 12 | 1 | N1 | N301 | 166 | M | AN | 1/55 |
| 17-02 | 71 | Origin Street Additional | C | AN | 1/55 | 1 | 410 | O | 2 | 12 | 1 | N1 | N302 | 166 | O | AN | 1/55 |
| 18 | 71 | N4 SEGMENT - Origin | M | | | 1 | 420 | O | 1 | 12 | 1 | N1 | | | | | |
| | | | | | | | | | | | | | | | | | See X12 Standards for explanation of syntax notes. C0605 |
| 18-01 | 71 | Origin City | M | AN | 2/30 | 1 | 420 | O | 1 | 12 | 1 | N1 | N401 | 19 | O | AN | 2/30 |
| 18-02 | 71 | Origin State or Province Code If a CONUS location, this element is MANDATORY. SOURCE: National Zip Code and Post Office Directory available from U.S. Postal Service National Information Data Center | C | ID | 2/2 | 1 | 420 | O | 1 | 12 | 1 | N1 | N402 | 156 | O | ID | 2/2 |
| 18-03 | 71 | Origin Postal Code If a CONUS location, this element is MANDATORY. SOURCE: National ZIP Code and Post Office Directory, Publication 65 available from U.S Postal Service; The USPS Domestic Mail Manual available from New Orders Superintendent of Documents | C | ID | 3/15 | 1 | 420 | O | 1 | 12 | 1 | N1 | N403 | 116 | O | ID | 3/15 |
| 18-04 | 71 | Origin Country Code When the shipment will move outside the country of origin, this element is MANDATORY. Use the abbreviation code for the country of origination. SOURCE: Code for Representation of Names of Countries, Geopolitical Entities, Names, and Codes (GENC), is represented in the National System for Geospatial Intelligence (NSG) GENC Registry and mirrored at http://www.transcom.mil/dteb/files/refdata/V_CTRY_DOD.htm . Codes for Representation of Currencies and Funds, ISO 4217, is available from American National Standards Institute. | C | ID | 2/3 | 1 | 420 | O | 1 | 12 | 1 | N1 | N404 | 26 | O | ID | 2/3 |
| 19 | 72 | N1 SEGMENT - Shipper Begins shipper identifier loop. This loop calls for N1, N2, N3, and N4 segments. | M | | | 1 | 390 | O | 1 | 12 | 1 | N1 | | | | | See X12 Standards for explanation of syntax notes. R0203P0304 |
| 19-01 | 72 | Entity Identifier Code SH - Shipper | M | ID | 2/2 | 1 | 390 | O | 1 | 12 | 1 | N1 | N101 | 98 | M | ID | 2/3 |
| 19-02 | 72 | Shipper Name | C | AN | 1/60 | 1 | 390 | O | 1 | 12 | 1 | N1 | N102 | 93 | C | AN | 1/60 |

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| 19-03 | 72 | Identification Code Qualifier 1 - D-U-N-S Number, Dun & Bradstreet 10 - Department of Defense Activity Address Code (DODAAC) 33 - Commercial and Government Entity (CAGE) 9 - D-U-N-S+4, D-U-N-S Number with Four Character Suffix | M | ID | 1/2 | 1 | 390 | O | 1 | 12 | 1 | N1 | N103 | 66 | C | ID | 1/2 |
| 19-04 | 72 | Shipper DoDAAC/CAGE/D-U-N-S Number/D-U-N-S+4 | M | AN | 5/13 | 1 | 390 | O | 1 | 12 | 1 | N1 | N104 | 67 | C | AN | 2/80 |
| 20 | 72 | N2 SEGMENT - Shipper SEGMENT CONDITION: Use when Shipper Additional Name applies. | C | | | 1 | 400 | O | 2 | 12 | 1 | N1 | | | | | |
| 20-01 | 72 | Shipper Additional Name | M | AN | 1/60 | 1 | 400 | O | 2 | 12 | 1 | N1 | N201 | 93 | M | AN | 1/60 |
| 21 | 72 | N3 SEGMENT - Shipper SEGMENT CONDITION: Use when Shipper Street applies. | C | | | 1 | 410 | O | 2 | 12 | 1 | N1 | | | | | |
| 21-01 | 72 | Shipper Street | M | AN | 1/55 | 1 | 410 | O | 2 | 12 | 1 | N1 | N301 | 166 | M | AN | 1/55 |
| 22 | 72 | N4 SEGMENT - Shipper | M | | | 1 | 420 | O | 1 | 12 | 1 | N1 | | | | | |
| | | | | | | | | | | | | | | | | | See X12 Standards for explanation of syntax notes. C0605 |
| 22-01 | 72 | Shipper City | M | AN | 2/30 | 1 | 420 | O | 1 | 12 | 1 | N1 | N401 | 19 | O | AN | 2/30 |
| 22-02 | 72 | Shipper State or Province Code If a CONUS location, this element is MANDATORY. SOURCE: National Zip Code and Post Office Directory available from U.S. Postal Service National Information Data Center | C | ID | 2/2 | 1 | 420 | O | 1 | 12 | 1 | N1 | N402 | 156 | O | ID | 2/2 |
| 22-03 | 72 | Shipper Postal Code If a CONUS location, this element is MANDATORY. SOURCE: National ZIP Code and Post Office Directory, Publication 65 available from U.S Postal Service; The USPS Domestic Mail Manual available from New Orders Superintendent of Documents | C | ID | 3/15 | 1 | 420 | O | 1 | 12 | 1 | N1 | N403 | 116 | O | ID | 3/15 |

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| 22-04 | 72 | Shipper Country Code If an OCONUS location, this element is MANDATORY. SOURCE: Code for Representation of Names of Countries, Geopolitical Entities, Names, and Codes (GENC), is represented in the National System for Geospatial Intelligence (NSG) GENC Registry and mirrored at http://www.transcom.mil/dteb/files/refdata/V_CTRY_DOD.htm . Codes for Representation of Currencies and Funds, ISO 4217, is available from American National Standards Institute. | C | ID | 2/3 | 1 | 420 | O | 1 | 12 | 1 | N1 | N404 | 26 | O | ID | 2/3 |
| 23 | 73 | N1 SEGMENT - Consignee/Mark-for-Party LOOP CONDITION: Begins consignee identifier loop. The mark-for is the ultimate consignee. This loop calls for N1, N2, N3, and N4 segments. | C | | | 1 | 390 | O | 1 | 12 | 1 | N1 | | | | | See X12 Standards for explanation of syntax notes. R0203P0304 |
| 23-01 | 73 | Consignee/Mark-for-Party Qualifier CN - Consignee | M | ID | 2/2 | 1 | 390 | O | 1 | 12 | 1 | N1 | N101 | 98 | M | ID | 2/3 |
| 23-02 | 73 | Consignee/Mark-for-Party Name | C | AN | 1/60 | 1 | 390 | O | 1 | 12 | 1 | N1 | N102 | 93 | C | AN | 1/60 |
| 23-03 | 73 | Consignee/Mark-for-Party Identification Code Qualifier 1 - D-U-N-S Number, Dun & Bradstreet 10 - Department of Defense Activity Address Code (DODAAC) 33 - Commercial and Government Entity (CAGE) 9 - D-U-N-S+4, D-U-N-S Number with Four Character Suffix | M | ID | 1/2 | 1 | 390 | O | 1 | 12 | 1 | N1 | N103 | 66 | C | ID | 1/2 |
| 23-04 | 73 | Consignee/Mark-for-Party DoDAAC/CAGE/D-U-N-S Number/D-U-N-S+4 | M | AN | 5/13 | 1 | 390 | O | 1 | 12 | 1 | N1 | N104 | 67 | C | AN | 2/80 |
| 24 | 73 | N2 SEGMENT - Consignee SEGMENT CONDITION: Use when Consignee Additional Name applies. | C | | | 1 | 400 | O | 2 | 12 | 1 | N1 | | | | | |
| 24-01 | 73 | Consignee Additional Name | M | AN | 1/60 | 1 | 400 | O | 2 | 12 | 1 | N1 | N201 | 93 | M | AN | 1/60 |
| 25 | 73 | N3 SEGMENT - Consignee SEGMENT CONDITION: Use when Consignee Street applies. | C | | | 1 | 410 | O | 2 | 12 | 1 | N1 | | | | | |
| 25-01 | 73 | Consignee Street | M | AN | 1/55 | 1 | 410 | O | 2 | 12 | 1 | N1 | N301 | 166 | M | AN | 1/55 |
| 26 | 73 | N4 SEGMENT - Consignee | M | | | 1 | 420 | O | 1 | 12 | 1 | N1 | | | | | See X12 Standards for explanation of syntax notes. C0605 |

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| 26-01 | 73 | Consignee City | M | AN | 2/30 | 1 | 420 | O | 1 | 12 | 1 | N1 | N401 | 19 | O AN | 2/30 |
| 26-02 | 73 | Consignee State or Province Code If a CONUS location, this element is MANDATORY. SOURCE: National Zip Code and Post Office Directory available from U.S. Postal Service National Information Data Center | C | ID | 2/2 | 1 | 420 | O | 1 | 12 | 1 | N1 | N402 | 156 | O ID | 2/2 |
| 26-03 | 73 | Consignee Postal Code If a CONUS location, this element is MANDATORY. SOURCE: National ZIP Code and Post Office Directory, Publication 65 available from U.S. Postal Service; The USPS Domestic Mail Manual available from New Orders Superintendent of Documents | C | ID | 3/15 | 1 | 420 | O | 1 | 12 | 1 | N1 | N403 | 116 | O ID | 3/15 |
| 26-04 | 73 | Consignee Country Code If an OCONUS location, this element is MANDATORY. SOURCE: Code for Representation of Names of Countries, Geopolitical Entities, Names, and Codes (GENC), is represented in the National System for Geospatial Intelligence (NSG) GENC Registry and mirrored at http://www.transcom.mil/dteb/files/refdata/V_CTRY_DOD.htm . Codes for Representation of Currencies and Funds, ISO 4217, is available from American National Standards Institute. | C | ID | 2/3 | 1 | 420 | O | 1 | 12 | 1 | N1 | N404 | 26 | O ID | 2/3 |
| 27 | 74 | N1 SEGMENT - Payer Entity SEGMENT CONDITION: Required for FOB origin shipments. Begins payer entity identifier loop. This loop calls for a single N1 segment. It identifies the entity who is responsible for remitting payment to the carriers. For the prototype, identify USBank in this segment. | C | | | 1 | 390 | O | 1 | 12 | 1 | N1 | | | | See X12 Standards for explanation of syntax notes. R0203P0304 |
| 27-01 | 74 | Payer Identifier Code BT - Bill-to-Party | M | ID | 2/2 | 1 | 390 | O | 1 | 12 | 1 | N1 | N101 | 98 | M ID | 2/3 |
| 27-02 | 74 | Payer Name Use "USBank/PowerTrack" in this data element. | C | AN | 1/60 | 1 | 390 | O | 1 | 12 | 1 | N1 | N102 | 93 | C AN | 1/60 |
| 27-03 | 74 | Payer Account Number Qualifier 1 - D-U-N-S Number, Dun & Bradstreet | M | ID | 1/1 | 1 | 390 | O | 1 | 12 | 1 | N1 | N103 | 66 | C ID | 1/2 |
| 27-04 | 74 | Payer Account Number Use US Bank's D-U-N-S Number. | M | AN | 9/9 | 1 | 390 | O | 1 | 12 | 1 | N1 | N104 | 67 | C AN | 2/80 |

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| 28 | 90 | FA1 SEGMENT - Appropriation Number SEGMENT CONDITION: Carriers do not need to receive appropriation data. This segment begins the appropriation number loop. It calls for both FA1 and FA2 segments. Shipper systems that are capable of receiving, storing, and sending structured DoD appropriation numbers may use this loop to exchange those numbers with trading partners. | C | 1 | 550 | O | 1 | >1 | 1 | FA1 | | | | |
| 28-01 | 90 | Agency Qualifier Code CHANGE NOTE: Correct 'HS' code user note per DM 911. DF - Department of Defense (DoD) DN - Department of the Navy DX - United States Marine Corps DY - Department of Air Force DZ - Department of Army HS - Department of Health and Human Services <i>Use 'HS' to denote Department of Homeland Security/US Coast Guard (DHS/USCG).</i> | M ID 2/2 | 1 | 550 | O | 1 | >1 | 1 | FA1 | FA101 | 559 | M ID | 2/2 |
| 29 | 90 | FA2 SEGMENT - Appropriation Number Note: Required if FA1 loop appears. | M | 1 | 560 | M | >1 | >1 | 1 | FA1 | | | | |
| 29-01 | 90 | Breakdown Structure Detail Code See Section 6 for list of data values. | M ID 2/2 | 1 | 560 | M | >1 | >1 | 1 | FA1 | FA201 | 1196 | M ID | 2/2 |
| 29-02 | 90 | Appropriation Number When FA201 contains code value '84', FA202 should be formatted as a dollar amount including a decimal character and two positions after the decimal, representing cents even if the value is a whole dollar amount. | M AN 1/80 | 1 | 560 | M | >1 | >1 | 1 | FA1 | FA202 | 1195 | M AN | 1/80 |
| 30 | 140 | HL SEGMENT - Pallet Description Loop LOOP CONDITION: This segment begins the pallet description loop. It occurs once for each pallet in the shipment. This loop calls for HL, L5, L0, and MEA segments. | C | 2 | 010 | M | 1 | >1 | 1 | HL | | | | |
| 30-01 | 140 | Hierarchical ID Number A sequential number assigned by the shipper's application system. | M AN 1/12 | 2 | 010 | M | 1 | >1 | 1 | HL | HL01 | 628 | M AN | 1/12 |
| 30-03 | 140 | Hierarchical Level Code UT - Unit or Lot | M ID 2/2 | 2 | 010 | M | 1 | >1 | 1 | HL | HL03 | 735 | M ID | 1/2 |
| 31 | 140 | L5 SEGMENT - Pallet ID SEGMENT CONDITION: Use if Pallet ID applies. | C | 2 | 130 | O | 10 | >1 | 1 | HL | | | | |

See X12 Standards for explanation of syntax notes. P0304C0706P0809

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| 31-06 | 140 | Pallet ID | C | AN | 1/48 | 2 | 130 | O | 10 | >1 | 1 | HL | L506 | 87 | C | AN | 1/48 |
| 31-07 | 140 | Pallet ID Qualifier W - Pallet Number | C | ID | 1/1 | 2 | 130 | O | 10 | >1 | 1 | HL | L507 | 88 | O | ID | 1/2 |
| 32 | 140 | L0 SEGMENT - Pallet Weight SEGMENT CONDITION: Use if Pallet Weight applies. | C | | | 2 | 145 | O | 1 | 20 | 2 | L0 | See X12 Standards for explanation of syntax notes. P0203P0405P0607P0809C1104P1315 | | | | |
| 32-04 | 140 | Actual Pallet Weight The actual weight of the loaded pallet. | M | R | 1/10 | 2 | 145 | O | 1 | 20 | 2 | L0 | L004 | 81 | C | R | 1/10 |
| 32-05 | 140 | Actual Pallet Weight Qualifier PA - Pallet Weight | M | ID | 2/2 | 2 | 145 | O | 1 | 20 | 2 | L0 | L005 | 187 | C | ID | 1/2 |
| 33 | 140 | MEA SEGMENT - Pallet Dimensions SEGMENT CONDITION: Use if Pallet Weight applies. Repeat this segment for each pallet dimension. All dimensions are required for all 3PL carrier shipments. CHANGE NOTE: User note added for clarification per SDDC guidance. | C | | | 2 | 160 | O | 10 | 20 | 2 | L0 | See X12 Standards for explanation of syntax notes. R03050608C0504C0604L07030506E0803 | | | | |
| 33-01 | 140 | Pallet Measurement Reference ID Code PA - Pallet Dimensions | M | ID | 2/2 | 2 | 160 | O | 10 | 20 | 2 | L0 | MEA01 | 737 | O | ID | 2/2 |
| 33-02 | 140 | Pallet Measurement Qualifier HT - Height LN - Length WD - Width | M | ID | 2/2 | 2 | 160 | O | 10 | 20 | 2 | L0 | MEA02 | 738 | O | ID | 1/3 |
| 33-03 | 140 | Pallet Measurement Value | M | R | 1/20 | 2 | 160 | O | 10 | 20 | 2 | L0 | MEA03 | 739 | C | R | 1/20 |
| 33-04 | 140 | Composite Unit of Measure C00101 calls for an identifier from the DE 355 code list. | M | CE | | 2 | 160 | O | 10 | 20 | 2 | L0 | MEA04 | C001 | C | CE | |
| 33-04-01 | 140 | English Measurement Code IN - Inch | O | ID | 2/2 | 2 | 160 | C | 10 | 20 | 2 | L0 | C00101 | 355 | M | ID | 2/2 |

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| 34 | 120 | HL SEGMENT - Box/Cooler Description Loop SEGMENT CONDITION: Use if Pallet Weight applies. This segment begins the box and cooler description loop. It occurs once for each box or cooler in the shipment. The term 'cooler' is interchangeable with 'box' for this implementation convention matrix. The loop contains HL, L5, L0, and MEA segments. | C | 2 | 010 | M | 1 | >1 | 1 | HL | | | | | |
| 34-01 | 120 | Hierarchical ID Number A sequential number assigned by the shipper's application system. | M AN 1/12 | 2 | 010 | M | 1 | >1 | 1 | HL | HL01 | 628 | M | AN | 1/12 |
| 34-03 | 120 | Hierarchical Level Code P - Pack <i>Use 'P' to denote Box/Cooler.</i> | M ID 1/1 | 2 | 010 | M | 1 | >1 | 1 | HL | HL03 | 735 | M | ID | 1/2 |
| 35 | 120 | L5 SEGMENT - Box's Parent Pallet ID SEGMENT CONDITION: Use if Box's Parent Pallet ID applies. | C | 2 | 130 | O | 10 | >1 | 1 | HL | | | | | |
| | | | | See X12 Standards for explanation of syntax notes. P0304C0706P0809 | | | | | | | | | | | |
| 35-06 | 120 | Pallet ID | M AN 1/48 | 2 | 130 | O | 10 | >1 | 1 | HL | L506 | 87 | C | AN | 1/48 |
| 35-07 | 120 | Pallet ID Qualifier W - Pallet Number | M ID 1/1 | 2 | 130 | O | 10 | >1 | 1 | HL | L507 | 88 | O | ID | 1/2 |
| 36 | 120 | L5 SEGMENT - Box ID SEGMENT CONDITION: Use if Box ID applies. | C | 2 | 130 | O | 10 | >1 | 1 | HL | | | | | |
| | | | | See X12 Standards for explanation of syntax notes. P0304C0706P0809 | | | | | | | | | | | |
| 36-06 | 120 | Box ID | M AN 1/48 | 2 | 130 | O | 10 | >1 | 1 | HL | L506 | 87 | C | AN | 1/48 |
| 36-07 | 120 | Box ID Qualifier CA - Shipper-Assigned Case Number | M ID 2/2 | 2 | 130 | O | 10 | >1 | 1 | HL | L507 | 88 | O | ID | 1/2 |
| 37 | 120 | L0 SEGMENT - Box Weight SEGMENT CONDITION: Use if Box Weight applies. | C | 2 | 145 | O | 1 | 20 | 2 | L0 | | | | | |
| | | | | See X12 Standards for explanation of syntax notes. P0203P0405P0607P0809C1104P1315 | | | | | | | | | | | |
| 37-04 | 120 | Actual Box Weight | M R 1/10 | 2 | 145 | O | 1 | 20 | 2 | L0 | L004 | 81 | C | R | 1/10 |
| 37-05 | 120 | Actual Box Weight Qualifier Z - Mutually Defined | M ID 1/1 | 2 | 145 | O | 1 | 20 | 2 | L0 | L005 | 187 | C | ID | 1/2 |

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| 38 | 120 | MEA SEGMENT - Box Dimensions SEGMENT CONDITION: Repeat this segment for each box/cooler dimension. All dimensions are required for all 3PL carrier shipments. CHANGE NOTE: User note added for clarification per SDDC guidance. | C | | 2 | 160 | O | 10 | 20 | 2 | L0 | | | | |
| | | | | | | | | | | | | | | See X12 Standards for explanation of syntax notes. R03050608C0504C0604L07030506E0803 | |
| 38-01 | 120 | Box Measurement Reference ID Code PK - Package Dimensions Use 'PK' to denote Box Dimensions. | M | ID 2/2 | 2 | 160 | O | 10 | 20 | 2 | L0 | MEA01 | 737 | O | ID 2/2 |
| 38-02 | 120 | Box Measurement Qualifier HT - Height LN - Length WD - Width | M | ID 2/2 | 2 | 160 | O | 10 | 20 | 2 | L0 | MEA02 | 738 | O | ID 1/3 |
| 38-03 | 120 | Box Measurement Value | M | R 1/20 | 2 | 160 | O | 10 | 20 | 2 | L0 | MEA03 | 739 | C | R 1/20 |
| 38-04 | 120 | Composite Unit of Measure | M | CE | 2 | 160 | O | 10 | 20 | 2 | L0 | MEA04 | C001 | C | CE |
| 38-04-01 | 120 | English Measurement Code IN - Inch | M | ID 2/2 | 2 | 160 | C | 10 | 20 | 2 | L0 | C00101 | 355 | M | ID 2/2 |
| 39 | 100 | HL SEGMENT - Bill of Lading Line Item Description Loop Begins bill of lading (B/L) line item description loop. This loop calls for HL, N9, L0, L1, LH1, LH2, and LH3 segments. The B/L line item contains unit of sale multiplied by the order quantity from the vendor's purchase order. This loop occurs at least once for every line item on the vendor's purchase order. If the purchase order line item is broken into multiple handling loads (box/cooler/pallet) for shipment, then this loop should occur once for each handling unit. | M | | 2 | 010 | M | 1 | >1 | 1 | HL | | | | |
| 39-01 | 100 | Hierarchical ID Number A sequential number assigned by the shipper's application system. | M | AN 1/12 | 2 | 010 | M | 1 | >1 | 1 | HL | HL01 | 628 | M | AN 1/12 |
| 39-03 | 100 | Hierarchical Level Code Qualifier identifying that all information within this HL loop corresponds to bill of lading line item details. 9 - Line Detail | M | ID 1/1 | 2 | 010 | M | 1 | >1 | 1 | HL | HL03 | 735 | M | ID 1/2 |
| 40 | 100 | N9 SEGMENT - Vendor Contract Number SEGMENT CONDITION: Use if Vendor Contract Number applies. | C | | 2 | 100 | O | 10 | >1 | 1 | HL | | | | |
| | | | | | | | | | | | | | | See X12 Standards for explanation of syntax notes. R0203C0605 | |

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| 40-01 | 100 | Vendor Contract Number Qualifier VC - Vendor Contract Number | M | ID | 2/2 | 2 | 100 | O | 10 | >1 | 1 | HL | N901 | 128 | M | ID | 2/3 |
| 40-02 | 100 | Vendor Contract Number | M | AN | 1/30 | 2 | 100 | O | 10 | >1 | 1 | HL | N902 | 127 | C | AN | 1/30 |
| 41 | 100 | N9 SEGMENT - Purchase Order Line Item Number In the event a purchase order line item is split into two or more bill of lading line items, this segment will enable the buyer and seller to identify all parts of a purchase order line item. | M | | | 2 | 100 | O | 10 | >1 | 1 | HL | | | | | See X12 Standards for explanation of syntax notes. R0203C0605 |
| 41-01 | 100 | Purchase Order Line Item Number Qualifier BV - Purchase Order Line Item Identifier (Buyer) | M | ID | 2/2 | 2 | 100 | O | 10 | >1 | 1 | HL | N901 | 128 | M | ID | 2/3 |
| 41-02 | 100 | Purchase Order Line Item Number | M | AN | 1/30 | 2 | 100 | O | 10 | >1 | 1 | HL | N902 | 127 | C | AN | 1/30 |
| 42 | 100 | N9 SEGMENT - Requisition Number SEGMENT CONDITION: Required for repair parts vendors receiving requisition numbers from their ICPs. | C | | | 2 | 100 | O | 10 | >1 | 1 | HL | | | | | See X12 Standards for explanation of syntax notes. R0203C0605 |
| 42-01 | 100 | Requisition Number Qualifier RQ - Purchase Requisition Number | M | ID | 2/2 | 2 | 100 | O | 10 | >1 | 1 | HL | N901 | 128 | M | ID | 2/3 |
| 42-02 | 100 | Requisition Number | C | AN | 14/17 | 2 | 100 | O | 10 | >1 | 1 | HL | N902 | 127 | C | AN | 1/30 |
| 43 | 100 | N9 SEGMENT - Purchase Call Number For DVD ITV prototype, use this segment for the order call number. | M | | | 2 | 100 | O | 10 | >1 | 1 | HL | | | | | See X12 Standards for explanation of syntax notes. R0203C0605 |
| 43-01 | 100 | Purchase Call Number Qualifier PO - Purchase Order Number | M | ID | 2/2 | 2 | 100 | O | 10 | >1 | 1 | HL | N901 | 128 | M | ID | 2/3 |
| 43-02 | 100 | Purchase Call Number A number that uniquely identifies the purchase transaction that resulted in the shipment. | M | AN | 1/30 | 2 | 100 | O | 10 | >1 | 1 | HL | N902 | 127 | C | AN | 1/30 |
| 44 | 100 | N9 SEGMENT - Pallet Identifier SEGMENT CONDITION: This segment identifies the pallet on which the bill of lading line item is conveyed. | C | | | 2 | 100 | O | 10 | >1 | 1 | HL | | | | | See X12 Standards for explanation of syntax notes. R0203C0605 |
| 44-01 | 100 | Pallet Identification Qualifier PIN - Platform Identification Number | M | ID | 3/3 | 2 | 100 | O | 10 | >1 | 1 | HL | N901 | 128 | M | ID | 2/3 |

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| 44-02 | 100 | Pallet Identifier | M | AN | 1/30 | 2 | 100 | O | 10 | >1 | 1 | HL | N902 | 127 | C | AN 1/30 |
| 45 | 100 | N9 SEGMENT - Box/Cooler Identifier SEGMENT CONDITION: This segment identifies the box or cooler in which the bill of lading line item is conveyed. The term 'cooler' is interchangeable with 'box' for this implementation convention matrix. | C | | | 2 | 100 | O | 10 | >1 | 1 | HL | See X12 Standards for explanation of syntax notes. R0203C0605 | | | |
| 45-01 | 100 | Box/Cooler Identification Qualifier Q2 - Starting Package Number | M | ID | 2/2 | 2 | 100 | O | 10 | >1 | 1 | HL | N901 | 128 | M | ID 2/3 |
| 45-02 | 100 | Box/Cooler Identifier | M | AN | 1/30 | 2 | 100 | O | 10 | >1 | 1 | HL | N902 | 127 | C | AN 1/30 |
| 46 | 100 | N9 SEGMENT - Transportation Control Number (TCN) SEGMENT CONDITION: Required for vendors using TCNs when shipping to a CCP. | C | | | 2 | 100 | O | 10 | >1 | 1 | HL | See X12 Standards for explanation of syntax notes. R0203C0605 | | | |
| 46-01 | 100 | TCN Qualifier TG - Transportation Control Number (TCN) | M | ID | 2/2 | 2 | 100 | O | 10 | >1 | 1 | HL | N901 | 128 | M | ID 2/3 |
| 46-02 | 100 | TCN | M | AN | 17/17 | 2 | 100 | O | 10 | >1 | 1 | HL | N902 | 127 | C | AN 1/30 |
| 47 | 100 | N9 SEGMENT - Description of Articles SEGMENT CONDITION: Required for DVD ITV prototype. | C | | | 2 | 100 | O | 10 | >1 | 1 | HL | See X12 Standards for explanation of syntax notes. R0203C0605 | | | |
| 47-01 | 100 | Product Code Qualifier Code values '3Q' and 'CH' pertain to the ITV prototype. 3Q - Food and Drug Administration (FDA) Product Code <i>Use '3Q' to denote National Drug Code/FDA Product Code.</i> CH - Customer catalog number <i>Use 'CH' to denote Vendor catalog number.</i> MF - Manufacturers Part Number NS - National Stock Number OZ - Product Number PG - Product Group XY - Other Unlisted Type of Reference Number | M | ID | 2/2 | 2 | 100 | O | 10 | >1 | 1 | HL | N901 | 128 | M | ID 2/3 |
| 47-02 | 100 | Product Code | C | AN | 1/30 | 2 | 100 | O | 10 | >1 | 1 | HL | N902 | 127 | C | AN 1/30 |

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| 47-03 | 100 | Product Description Clear text description of the unit of sale being shipped. | C | AN | 1/45 | 2 | 100 | O | 10 | >1 | 1 | HL | N903 | 369 | C AN 1/45 |
| 48 | 100 | H3 SEGMENT - Refrigerated Item Indicator SEGMENT CONDITION: Use this segment when shipment contains refrigerated item(s). | C | | | 2 | 105 | O | 1 | >1 | 1 | HL | | | See X12 Standards for explanation of syntax notes. E0102 |
| 48-01 | 100 | Refrigerated Item Indicator MRF - Refrigerated | M | ID | 3/3 | 2 | 105 | O | 1 | >1 | 1 | HL | H301 | 152 | C ID 2/3 |
| 49 | 100 | L0 SEGMENT - Bill of Lading Line Item Quantities | M | | | 2 | 145 | O | 1 | 20 | 2 | L0 | | | See X12 Standards for explanation of syntax notes. P0203P0405P0607P0809C1104P1315 |
| 49-04 | 100 | Actual Weight of Bill of Lading Line Item The combined weight of the total units of sale shipped under this bill of lading line item. This is always expressed in pounds and may extend to two decimal places. | C | R | 1/10 | 2 | 145 | O | 1 | 20 | 2 | L0 | L004 | 81 | C R 1/10 |
| 49-05 | 100 | Actual Weight Qualifier FR - Freight Weight | C | ID | 2/2 | 2 | 145 | O | 1 | 20 | 2 | L0 | L005 | 187 | C ID 1/2 |
| 49-06 | 100 | Cube of Bill of Lading Line Item | C | R | 1/8 | 2 | 145 | O | 1 | 20 | 2 | L0 | L006 | 183 | C R 1/8 |
| 49-07 | 100 | Cube Unit Qualifier E - Cubic Feet N - Cubic Inches | C | ID | 1/1 | 2 | 145 | O | 1 | 20 | 2 | L0 | L007 | 184 | C ID 1/1 |
| 49-08 | 100 | Actual Quantity of Bill of Lading Line Item This element carries the quantity of the units of sale shipped under this line item. | M | N0 | 1/7 | 2 | 145 | O | 1 | 20 | 2 | L0 | L008 | 80 | C N0 1/7 |
| 49-09 | 100 | Packaging Form Code This data element qualifies the quantity of NDC units identified in the L008 data element 80. CHANGE NOTE: "PLL" Migration Code value added per DM 0549. PLL - [Migration Code] 463L Air Pallet PLT - Pallet UNT - Unit | M | ID | 3/3 | 2 | 145 | O | 1 | 20 | 2 | L0 | L009 | 211 | C ID 3/3 |
| 49-13 | 100 | Freight Pieces Use to distinguish between total freight pieces and quantity of items shipped (e.g., shipping a quantity of 15, where total freight pieces = 1 box and quantity of items shipped = 15). | C | R | 1/15 | 2 | 145 | O | 1 | 20 | 2 | L0 | L013 | 380 | C R 1/15 |

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| 49-15 | 100 | Freight Pieces Qualifier N - No <i>Use 'N' to denote Number.</i> | C | ID | 1/1 | 2 | 145 | O | 1 | 20 | 2 | L0 | L015 | 1073 | C | ID | 1/1 |
| 50 | 100 | LH1 SEGMENT - HAZMAT Indicator SEGMENT CONDITION: Use this segment to indicate when an item is a hazardous material. This segment begins the HAZMAT loop. The loop may occur only once per line item. If the shipment calls for a simple HAZMAT indicator, use only the LH1 segment. If the shipment calls for more than an indicator, use the LH1, LH2, and LH3 segments as required. | C | | | 2 | 170 | O | 1 | 100 | 2 | LH1 | | | | | |
| 50-01 | 100 | HAZMAT - Unit of Measure Code If an item requires a HAZMAT indicator ONLY, use code value 'ZZ' in this data element and value zero (0) in LH102. ZZ - Mutually Defined | M | ID | 2/2 | 2 | 170 | O | 1 | 100 | 2 | LH1 | LH101 | 355 | M | ID | 2/2 |
| 50-02 | 100 | HAZMAT - Lading Quantity Use value zero (0). | M | N0 | 1/1 | 2 | 170 | O | 1 | 100 | 2 | LH1 | LH102 | 80 | M | N0 | 1/7 |
| 50-03 | 100 | HAZMAT - UN/NA Identification Code Contains the United Nations/North America (UN/NA) code. SOURCE: Hazardous Materials Regulations of the Department of Transportation by Air, Rail, Highway, and Water available from Association of American Railroads Publications | M | ID | 6/6 | 2 | 170 | O | 1 | 100 | 2 | LH1 | LH103 | 277 | O | ID | 6/6 |
| 50-10 | 100 | HAZMAT - Packing Group Code Indicate the required packing group using Roman Numeral I, II or III to indicate the degree of danger as shown in column 5 of 49 CFR, Table 172.101. SOURCE: The Canadian Gazette, Part II available from Canadian Government Publishing Centre Supply and Services Canada | C | ID | 1/3 | 2 | 170 | O | 1 | 100 | 2 | LH1 | LH110 | 254 | O | ID | 1/3 |
| 51 | 100 | LH2 SEGMENT - HAZMAT Classification SEGMENT CONDITION: Use if HAZMAT Classification applies. | C | | | 2 | 180 | O | 4 | 100 | 2 | LH1 | | | | | |
| 51-01 | 100 | HAZMAT - Hazardous Class Division Identify the hazard class or division prescribed for the material as shown in column 3 of 49 CFR 172.101. If there is no hazard class or division, use the code in that column, such as ORM-D (Other Regulated Material), reference 49 CFR 173.2. If there is a subsidiary hazard but no hazard class or division, use code value 'NA'. A material for which the entry in this column is 'Forbidden' may not be offered for transportation nor be transported. This loop needs to be repeated for each subsidiary hazard. SOURCE: Hazardous Materials Regulations of the Department of Transportation by Air, Rail, Highway, and Water available from Association of American Railroads Publications | M | ID | 1/30 | 2 | 180 | O | 4 | 100 | 2 | LH1 | LH201 | 215 | O | ID | 1/30 |

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| 51-02 | 100 | HAZMAT - Hazardous Class Qualifier Repeat the LH2 loop as necessary to identify the primary and each subsidiary (secondary) hazard of the material being shipped. P - Primary S - Secondary | M | ID | 1/1 | 2 | 180 | O | 4 | 100 | 2 | LH1 | LH202 | 983 | O | ID | 1/1 |
| 52 | 100 | LH3 SEGMENT - HAZMAT Names SEGMENT CONDITION: Use if HAZMAT Names apply. | C | | 2 | 190 | O | 12 | 100 | 2 | LH1 | See X12 Standards for explanation of syntax notes. P0102 | | | | | |
| 52-01 | 100 | HAZMAT - Proper Shipping Name From table at 49 CFR 172.101, column 2. MANDATORY for all hazardous material shipments including ammunition and explosives. See 49 CFR 172.202 for additional details. Create additional LH301 segment(s) for remainder of Proper Shipping Name exceeding 25 characters. SOURCE: Hazardous Materials Regulations of the Department of Transportation by Air, Rail, Highway, and Water available from Association of American Railroads Publications | M | AN | 1/25 | 2 | 190 | O | 12 | 100 | 2 | LH1 | LH301 | 224 | C | AN | 1/25 |
| 52-02 | 100 | HAZMAT - Proper Shipping Name Qualifier C - Canadian Shipping Name D - Domestic (United States) Shipping Name I - International Shipping Name | M | ID | 1/1 | 2 | 190 | O | 12 | 100 | 2 | LH1 | LH302 | 984 | C | ID | 1/1 |
| 53 | 100 | N1 SEGMENT - Consignee DoDAAC SEGMENT CONDITION: The consignee DoDAAC should be derived from the Purchase Order. | C | | 2 | 290 | O | 1 | 4 | 2 | N1 | See X12 Standards for explanation of syntax notes. R0203P0304 | | | | | |
| 53-01 | 100 | Consignee Qualifier CN - Consignee | M | ID | 2/2 | 2 | 290 | O | 1 | 4 | 2 | N1 | N101 | 98 | M | ID | 2/3 |
| 53-03 | 100 | Consignee DoDAAC Qualifier 10 - Department of Defense Activity Address Code (DODAAC) | C | ID | 2/2 | 2 | 290 | O | 1 | 4 | 2 | N1 | N103 | 66 | C | ID | 1/2 |
| 53-04 | 100 | Consignee DoDAAC | C | AN | 2/80 | 2 | 290 | O | 1 | 4 | 2 | N1 | N104 | 67 | C | AN | 2/80 |
| 54 | 300 | HL SEGMENT - Level of Service Loop SEGMENT CONDITION: This loop applies once for the bill of lading. This loop calls for HL and SL1 segments. Required for express packages shipment. | C | | 2 | 010 | M | 1 | >1 | 1 | HL | | | | | | |
| 54-01 | 300 | Hierarchical ID Number A sequential number assigned by the shipper's application system. | M | AN | 1/12 | 2 | 010 | M | 1 | >1 | 1 | HL | HL01 | 628 | M | AN | 1/12 |

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| 54-03 | 300 | Hierarchical Level Code 41 - Product Level | M | ID | 2/2 | 2 | 010 | M | 1 | >1 | 1 | HL | HL03 | 735 | M | ID | 1/2 |
| 55 | 300 | SL1 SEGMENT - Level of Service SEGMENT CONDITION: Use if Level of Service applies. | C | | | 2 | 095 | O | 1 | >1 | 1 | HL | See X12 Standards for explanation of syntax notes. R0304 | | | | |
| 55-01 | 300 | Service Level Code DF - Deferred Service NF - Next Flight Out ON - Overnight SC - Second Day Air | M | ID | 2/2 | 2 | 095 | O | 1 | >1 | 1 | HL | SL101 | 284 | M | ID | 2/2 |
| 56 | 301 | HL SEGMENT - Accessorial Service Description Loop SEGMENT CONDITION: Begins accessorial service description loop. This loop calls for HL, L0, and L1 segments. This loop occurs once for each accessorial service that applies to the shipment. | C | | | 2 | 010 | M | 1 | >1 | 1 | HL | | | | | |
| 56-01 | 301 | Hierarchical ID Number A sequential number assigned by the shipper's application system. | M | AN | 1/12 | 2 | 010 | M | 1 | >1 | 1 | HL | HL01 | 628 | M | AN | 1/12 |
| 56-03 | 301 | Hierarchical Level Code SS - Services | M | ID | 2/2 | 2 | 010 | M | 1 | >1 | 1 | HL | HL03 | 735 | M | ID | 1/2 |
| 57 | 301 | L0 SEGMENT - Accessorial Service | M | | | 2 | 145 | O | 1 | 20 | 2 | L0 | See X12 Standards for explanation of syntax notes. P0203P0405P0607P0809C1104P1315 | | | | |
| 57-01 | 301 | Lading Line Item Number To use the L1 segment to identify service level code, enter '1' in this data element to satisfy X12 syntax. | M | N0 | 1/1 | 2 | 145 | O | 1 | 20 | 2 | L0 | L001 | 213 | O | N0 | 1/3 |
| 58 | 301 | L1 SEGMENT - Accessorial Service Charge SEGMENT CONDITION: Use if Accessorial Service Charge applies | C | | | 2 | 150 | O | 20 | 20 | 2 | L0 | See X12 Standards for explanation of syntax notes. P0203R040506P1415P1718 | | | | |
| 58-04 | 301 | Service Charge The charge for an accessorial service. Use up to 9-digits with an implied decimal at the second position. | M | N2 | 1/12 | 2 | 150 | O | 20 | 20 | 2 | L0 | L104 | 58 | C | N2 | 1/12 |

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|--|-----|---|-------------------------------|----|-------------------------|-----|------------|------------|--------|--------|-------|-------------------------|------|------------|----|----|------|
| Index | DG | Data Name Notes and Codes | DoD Recommended Attributes | | Tabl | Pos | Req Des | Max Use | Lp Rpt | Lp Lvl | Lp ID | Ref Des | DE # | Attributes | | | |
| 58-08 | 301 | Service Code When implementation requirements are identified, DoD will develop a complete list of service codes. 400 - Freight <i>Use '400' to denote Normal.</i> HAZ - Hazardous Cargo Charge <i>Use 'HAZ' to denote HAZMAT.</i> REF - Refrigeration <i>Use 'REF' to denote Perishable.</i> ZZZ - Mutually Defined | M | ID | 3/3 | 2 | 150 | O | 20 | 20 | 2 | L0 | L108 | 150 | O | ID | 3/3 |
| 59 | 900 | L3 SEGMENT - Totals for Shipment | M | | | 3 | 010 | O | 1 | | | | | | | | |
| See X12 Standards for explanation of syntax notes. P0102P0304P0910C1201P1415 | | | | | | | | | | | | | | | | | |
| 59-01 | 900 | Total Actual Weight of Shipment See Section 9.0 (DTEDI Air Freight Bill of Lading Implementation Convention) for instruction about calculating the greater of actual or dimensional (GAD) weight. | M | R | 1/10 | 3 | 010 | O | 1 | | | L301 | 81 | C | R | | 1/10 |
| 59-02 | 900 | GAD Weight Qualifier G - Gross Weight | M | ID | 1/1 | 3 | 010 | O | 1 | | | L302 | 187 | C | ID | | 1/2 |
| 59-05 | 900 | Total Charge for the Shipment | C | N2 | 1/12 | 3 | 010 | O | 1 | | | L305 | 58 | O | N2 | | 1/12 |
| 59-09 | 900 | Total Cube of Shipment | C | R | 1/8 | 3 | 010 | O | 1 | | | L309 | 183 | C | R | | 1/8 |
| 59-10 | 900 | Total Cube Unit Qualifier E - Cubic Feet | C | ID | 1/1 | 3 | 010 | O | 1 | | | L310 | 184 | C | ID | | 1/1 |
| 60 | 900 | SE SEGMENT - Air Freight Bill of Lading Trailer | M | | | 3 | 020 | M | 1 | | | | | | | | |
| 60-01 | 900 | Number of Included Segments Total segments in this transaction set including the ST and SE segments. | M | N0 | 1/10 | 3 | 020 | M | 1 | | | SE01 | 96 | M | N0 | | 1/10 |
| 60-02 | 900 | Transaction Set Control Number This data element ends the transaction set and should match the number that appears in the ST02 that begins the transaction set. | M | AN | 4/9 | 3 | 020 | M | 1 | | | SE02 | 329 | M | AN | | 4/9 |

Section 5.0

IC ELEMENTS IN EDI FORMAT

This section contains one example of the air freight bill of lading data requirement mapped to the *ASC* X12 transaction set 858 shipment information.

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Example - Prime Vendor Three Pound Package

| | |
|---|--------------------------------------|
| ST~858~123450001 n/l | Transaction set header |
| BX~00~AF~CD~I413834~EWCF~~C n/l | Vendor order number and carrier SCAC |
| N9~ZZ~{carrier assigned shipment ID} n/l | |
| N9~GC~{carrier's Government contract number} n/l | |
| G62~86~19981020 n/l | Carrier pickup date |
| H3~ZZZ n/l | Split shipment indicator |
| N1~ST~USAMMCE Europe~10~{DoDAAC} n/l | Ship to address |
| N3~Husterhoeh Kaserne~ Building 4171 n/l | |
| N4~Pirmasen~~66953~EU n/l | City, postal code, and country |
| N1~SF~Bindley Western Drug Company~33~{CAGE code} n/l | Ship from |
| N2~Carolina Division n/l | |
| N3~1305 Frederick Street n/l | |
| N4~Shelby~NC~28151~US n/l | |
| N1~SH~Defense Personnel Support Ctr~10~{DoDAAC} n/l | Shipper |
| N3~2800 S 20 th Street n/l | |
| N4~Philadelphia~PA~19101~US n/l | |
| N1~CN~USAMMCE Europe~10~{DoDAAC} n/l | Consignee |
| N3~Husterhoeh Kaserne~ Building 4171 n/l | |
| N4~Pirmasen~~66953~EU n/l | City, postal code, and country |
| N1~BT~USBank/PowerTrack~25~{payer account number} n/l | Party responsible for payment |
| FA1~DF n/l | Appropriation number |
| FA2~18~97 7010045000571151099902200000001811900D230S7 n/l | Appropriation line of accounting |
| HL~1~~UT n/l | Pallet description loop |
| L5~~~~~9999~W n/l | Pallet ID |
| L0~~~~1300~PA n/l | Pallet actual weight |
| MEA~PK~HT~60~IN n/l | Box height |
| MEA~PK~LN~60~IN n/l | Box length |
| MEA~PK~WD~60~IN n/l | Box width |

| | |
|---|---|
| HL~2~~P | Box description loop |
| L5~~~~~9999~W n/l | Parent pallet ID |
| L5~~~~~0001~CA n/l | Box ID |
| L0~~~~4.25~Z n/l | Box actual weight |
| MEA~PK~HT~10~IN n/l | Box height |
| MEA~PK~LN~10~IN n/l | Box length |
| MEA~PK~WD~10~IN n/l | Box width |
| HL~3~~9 n/l | B/L line item description loop |
| N9~BV~1 n/l | Purchase order line item number |
| N9~PO~K201 n/l | Purchase call number |
| N9~PIN~9999 n/l | Pallet number assigned by shipper |
| N9~Q2~0001 n/l | Box number |
| N9~VC~{vendor's Government contract number} n/l | |
| L5~SUPRAX 400 MG~0005-3897-23~Z n/l | Lading description and commodity code |
| L0~~~~1~FR~~~4~UNT n/l | Actual weight of 1 lbs., 4 sales units |
| N1~CN~~10~{customer's DoDAAC} n/l | |
| HL~4~~9 n/l | B/L line item description loop |
| N9~BV~2 n/l | Purchase order line item number |
| N9~PO~K201 n/l | Purchase call number |
| N9~PIN~9999 n/l | Pallet number assigned by shipper |
| N9~Q2~0001 n/l | Box number |
| N9~VC~{vendor's Government contract number} n/l | |
| L5~POLYTRIM DROPPER BOTL 10 ML~0023-7824-10~Z n/l | Lading description and commodity code |
| L0~~~~1~FR~~~20~UNT n/l | Actual weight of 1 lbs., 20 sales units |
| N1~CN~~10~{customer's DoDAAC} n/l | |
| HL~5~~9 n/l | B/L line item description loop |
| N9~BV~3 n/l | Purchase order line item number |
| N9~PO~K201 n/l | Purchase call number |
| N9~PIN~9999 n/l | Pallet number assigned by shipper |
| N9~Q2~0001 n/l | Box number |
| N9~VC~{vendor's Government contract number} n/l | |
| L5~TRENAL TABS 400 MG ~0039-0078-10~Z n/l | Lading description and commodity code |
| L0~~~~1~FR~~~24~UNT n/l | Actual weight of 1 lbs., 24 sales units |
| N1~CN~~10~{customer's DoDAAC} n/l | |

| | |
|---|--|
| HL~6~~9 n/l | B/L line item description loop |
| N9~BV~4 n/l | Purchase order line item number |
| N9~PO~K201 n/l | Purchase call number |
| N9~PIN~9999 n/l | Pallet number assigned by shipper |
| N9~Q2~0001 n/l | Box number |
| N9~VC~{vendor's Government contract number} n/l | |
| H3~MRF n/l | Refrigerated item indicator |
| L5~VANCOMYCIN 500MG FLIP VL 10~0074-4332-01~Z n/l | Lading description and commodity code |
| L0~~~~1~FR~~~2~UNT n/l | Actual weight of 1 lbs., 2 sales units |
| N1~CN~~10~{customer's DoDAAC} n/l | |
| . | |
| . | |
| HL~7~~P | Additional box descriptions |
| . | |
| . | |
| HL~{8 THROUGH 16}~~9 n/l | Additional B/L line items |
| . | |
| . | |
| HL~17~~41 n/l | Level of service loop |
| SL1~SC n/l | Second day air service |
| | |
| L3~1300~G~~~231400 n/l | Total weight, and charge of \$2,314.00 |
| SE~46~123450001 n/l | Number of segments and transaction ID |

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Section 6.0

APPLICATION CODE LISTS

29-01 -- Breakdown Structure Detail Code

| Data Value - Definition |
|---|
| 18 - Funds Appropriation |
| 84 - Total Direct Costs |
| A1 - Department Indicator |
| A2 - Transfer from Department |
| A3 - Fiscal Year Indicator |
| A4 - Basic Symbol Number |
| A5 - Sub-class |
| A6 - Sub-Account Symbol |
| AT - Air Force Transportation Account Code (ATAC) |
| B1 - Budget Activity Number |
| B2 - Budget Sub-activity Number |
| B3 - Budget Program Activity |
| C1 - Program Element |
| C2 - Project Task or Budget Subline |
| D1 - Defense Agency Allocation Recipient |
| D4 - Component Sub-allocation Recipient |
| D6 - Sub-allotment Recipient |
| D7 - Work Center Recipient |
| E1 - Major Reimbursement Source Code |
| E2 - Detail Reimbursement Source Code |
| E3 - Customer Indicator |
| F1 - Object Class |
| F3 - Government or Public Sector Identifier |
| G2 - Special Interest Code or Special Program Cost Code |
| I1 - Abbreviated Department of Defense (DoD) Budget and Accounting Classification Code (BACC) |
| J1 - Document or Record Reference Number |
| K6 - Accounting Classification Reference Code |
| L1 - Accounting Installation Number |
| M1 - Local Installation Data |
| MD - Movement Designator Code (MDC) |
| N1 - Transaction Type |
| P5 - Foreign Military Sales (FMS) Line Item Number |
| TA - Transportation Account Code (TAC) |
| ZZ - Mutually Defined |

7.0 FA2 Appropriation Line of Accounting (LOA)

The activity (shipper or costing party) responsible for including financial management data on the B/L needs to generate LOA fund cite using the FA1/FA2 segments located in tables 1 and 2 of the X12 transaction set. There are two approaches for populating the FA1/FA2 segments with LOA data: a parsed fund cite that takes full advantage of the FA1/FA2 capability, or a clear-text fund cite in fixed length record format. (See implementation convention code list contained in FA101 for valid origin fund cites.)

PARSED FUND CITE

For all DTEDI transaction sets using FA1/FA2 segments, go to web for current accounting data:

<http://www.lmi.org/dtedi/>

Instructions: At that web location, look in the "IC Development" or "ICs Completed" menu. Then select the "FA2 Appropriation Guide for Electronic Data Interchange (EDI) Payment of Transportation Service at DFAS-IN". That guide is available in PDF format.

CLEAR-TEXT LOA FUND CITE

The clear-text LOA fund cite should be mapped to the FA202. The fund cite should be qualified in the FA201 with the X12 code value that identifies the origin of the fund cite. (See implementation convention code list contained in FA101 for valid origin fund cites.)

Currently, the only official guidance for formatting clear text fund cites for the FA202 is located on the Army's Financial Management web site (sponsored by the Assistant Secretary of the Army for Financial Management and Comptroller (ASA(FM&C))). On the web, go to:

<http://www.asafm.army.mil/>

Instructions: At that web location, look in the "Publications" menu under "DFAS". Then select the "Revised Appropriation Guide for Electronic Data Interchange (EDI) Payment of Transportation Service at DFAS-IN, 1 November 1996". That guide is available in MSWord, .PDF, and HTML formats.

The following is an example of an Operation and Maintenance, Defense (0100) LOA mapped to the FA1/FA2 segments.

FA1~DF n/I

FA2~ZZ~97 7010045000571151099902200000001811900D230S7

The LOA in the FA202 data element is identified only as a "Funds Appropriation" by code value "ZZ" in the FA201. To identify the individual pieces of the LOA, the developer needs to parse the fund cite.

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Section 9.0

ADDITIONAL INFORMATION FOR THE DEVELOPER

This section describes the looping logic the system developer needs to follow as they build an 858 Air Freight Bill of Lading (B/L). Further, this section offers detailed explanations of several functional issues including:

What is a B/L line item?

How will the Department of Defense cost air freight shipments?

What enables GTN to identify line item detail?

What line-of-accounting (LOA) format will DoD use on B/Ls?

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Looping Logic for Air Freight B/L Data Groups

Each element in the Section 4 IC Element Matrix is assigned to a data group. The data group number is identified in the second column labeled DG. Matrix elements that belong to the same data group are related by a functional requirement. For example, all elements in DG 100 are a member of the B/L line item requirement. This section contains added explanation of data groups 100, 120, 140, 300, 301, and 900. Some examples are included for clarification.

DATA GROUP 10 – B/L HEADER INFORMATION

The developer does not need to follow special looping requirements to generate header information.

DATA GROUP 70 – ADDRESSES

This data group is broken into several sub groups. Each group identifies a requirement for specific address types. Follow the requirement in Section 4.0 to generate address information.

DATA GROUP 90 – APPROPRIATION NUMBER(S)

This data group enables the shipper to identify the appropriation number it uses to cite transportation payment. Generate one occurrence of the FA1 loop for each appropriation number identified on the B/L. See the section below entitled “FA1/FA2 Appropriation Line of Accounting (LOA)” for further instructions on the format of that data.

DATA GROUP 100 – B/L LINE ITEMS

This data group enables the shipper to identify individual B/L line items. To identify a single line item, generate one occurrence of the HL loop following data group 100 requirements. To identify two line items, generate two occurrences of the HL loop — et cetera. The B/L costing activity or the carrier should not process B/L line items as a billable unit. To understand the functional characteristics of the B/L line item, see the discussion about *What is a B/L line item?* further on in this section.

DATA GROUP 120 – BOX/COOLER LOAD

This data group enables the shipper to identify a box load. To identify a single box/cooler, generate one occurrence of the HL loop following DG 120 requirements. To identify two boxes/coolers, generate two occurrences of the HL loop — et cetera. The costing activity and the carrier should use the Greater of Actual weight or Dimensional weight (GAD) of the box/cooler to rate the shipment.

DATA GROUP 140 – PALLET LOAD

This data group enables the shipper to identify a pallet load. To identify a single pallet, generate one occurrence of the HL loop following DG 140 requirements. To identify two pallets, generate two occurrences of the HL loop — et cetera. The costing activity and the carrier should use the Greater of Actual weight or Dimensional weight (GAD) of the pallet to rate the shipment.

DATA GROUP 190 - HAZMAT INFORMATION

The data group 190 - HAZMAT Information, if applicable, appears once for each HL 100 loop in the LH1 loop. Sometimes shipment level HAZMAT instructions appear on the B/L cover page. Carry those instructions in the LH1 loop under the first occurrence of the HL 100 loop. Carry B/L line item specific instructions in the LH1 loop with their corresponding line item. If a B/L line item requires a HAZMAT indicator only, carry that indicator in the LH1 segment. No other LH segments are required.

DATA GROUP 300 – ACCESSORIAL SERVICES

This data group enables the shipper to identify accessorial services it wants the carrier to perform. The B/L costing activity and the carrier should process an accessorial service as a billable unit. Generate one occurrence of the HL loop for each accessorial service.

DATA GROUP 301 – LEVEL OF TRANSPORTATION SERVICE

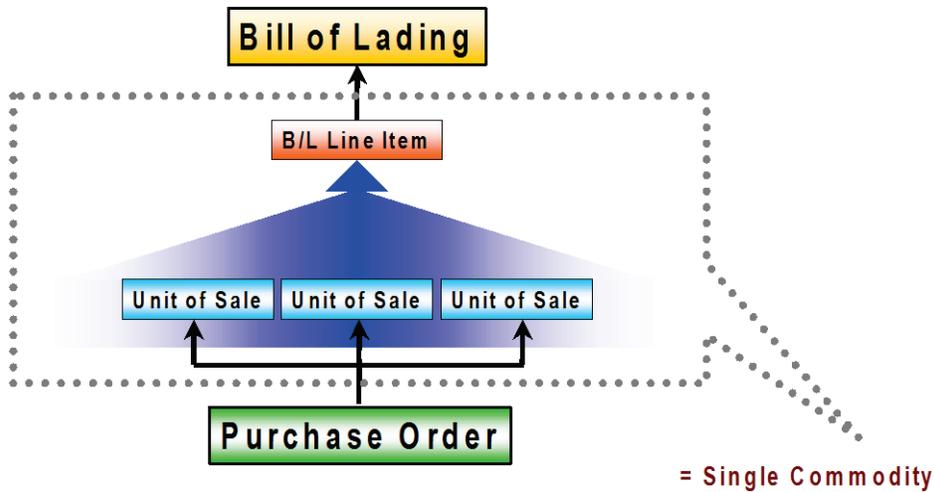
This data group enables the shipper to identify the level of transportation service it wants the carrier to perform. The B/L costing activity and the carrier should not process the level of transportation service as a billable unit. However, different levels of service usually result in different transportation line haul rates. Those rates are identified in the carrier's contract/tender. Generate one occurrence of the HL loop to describe the level of service.

The B/L Line Item

This section defines the characteristics of the B/L line item. There are two key definitions to remember:

- A unit of sale is always composed of a single commodity identified by a commodity code such as a National Motor Freight Code (NMFC), National Drug Code (NDC), or other industry code.
- A B/L line item describes some quantity of a single unit of sale.

The figure below illustrates how a purchase order (bottom of the illustration) that calls for three units of sale results in one B/L line item. The resulting line item on the B/L describes the total quantity of units of sale and the total weight and cube of those units of sale.

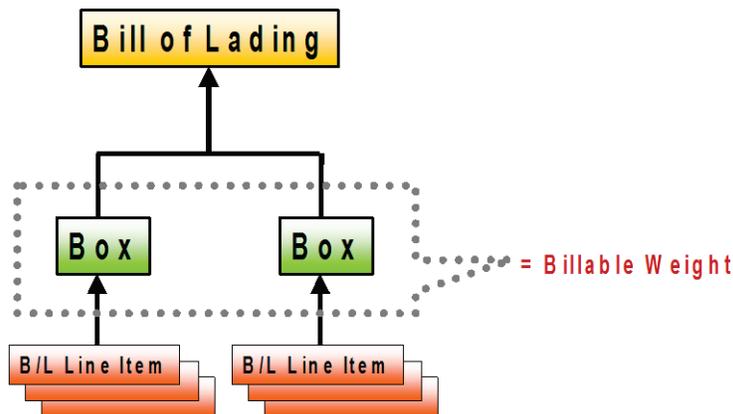


Costing/Billing Requirements

To cost B/Ls, there are several factors the shipper and carrier need to consider.

WEIGHTS

Air freight shippers calculate shipping costs using the weight of two types of load units (box and pallet). The box or pallet may contain one or more B/L line items. The figure below illustrates a shipment containing boxes. For that configuration, the shipper needs to report billable weights at the box level of the shipment. To report box weight, the shipper needs to generate one HL



loop for each box.

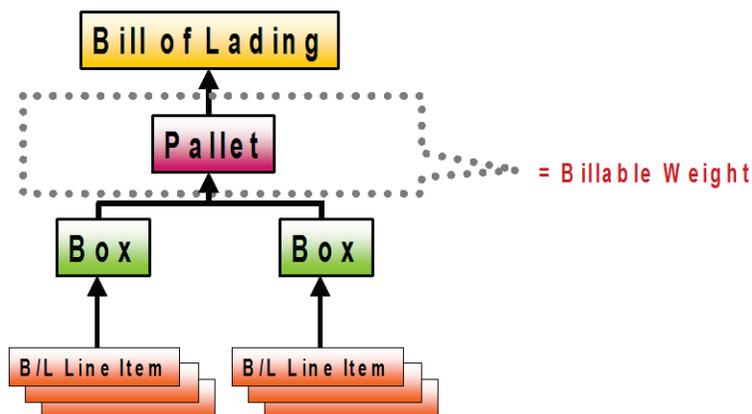
The next figure illustrates a shipment containing a pallet. For that configuration, the shipper needs to report the billable weights at the pallet level of the shipment. To report the pallet weight, the shipper needs to generate one HL loop for each pallet.

LEVEL OF SERVICE

In air freight moves, the carrier offers several categories of transit times. Each category is identified in the shipper/carrier contract as a level of service. Each level of service may call for a unique set of rates. The shipper needs to identify the correct set of rates before costing the B/L. The shipper can select only one level of service per B/L. To report that level of service, the shipper generates one HL loop.

ACCESSORIAL SERVICES

{reserved}



COSTING METHODS

Costing shipments calls on the shipper to identify a level of service and its corresponding rates. Then the shipper needs to calculate the greater of actual or dimensional (GAD) weight. The shipper then uses the GAD weight to calculate the cost of the shipment.

The figure below illustrates how to calculate the dimensional (DIM) weight of a pallet load.

Formula

$$\frac{(L'' * W'' * H'')}{\text{DIM Factor}} = \text{DIM Weight}$$

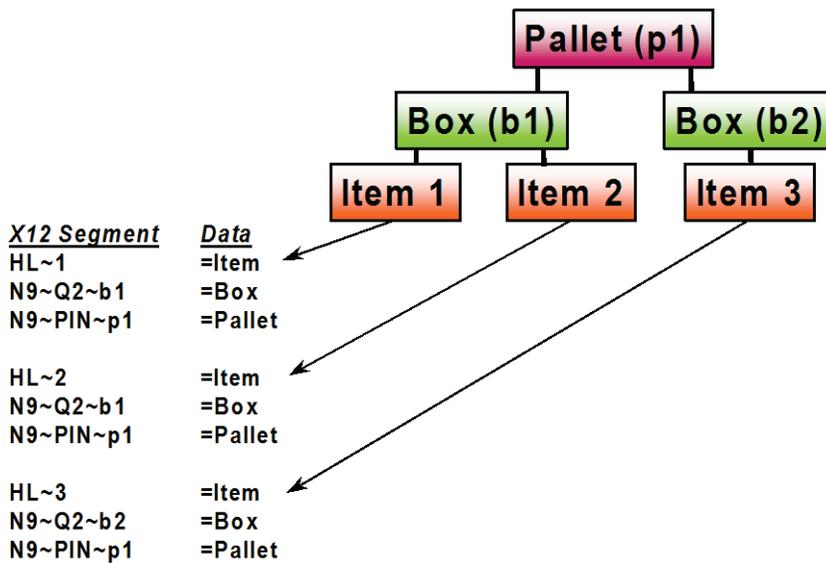
Example

$$\frac{(60'' * 60'' * 60'')}{194} = 1113.4 \text{ lbs}$$

If the actual weight of the pallet is 950 lbs. and the dimensional weight is 1113.4 lbs., then 1113.4 is the GAD. The shipper uses that weight to cost the shipment.

ITV Capability

The goal of the Global Transportation Network (GTN) is to provide the Defense transportation customer with visibility of shipment line items. This implementation convention identifies a method for achieving that level of visibility. That method calls on the shipper to identify box or pallet identifiers with each B/L line item. The figure below illustrates the physical relation of items to boxes to pallets. It also shows how that relationship is identified using the X12 B/L line item segments. The box and pallet identifier(s) are carried with the description of each B/L line item. Within the segments that describe Item 3, the Box identifier changes to “b2”.



This method will enable Defense transportation customers to see the items carried inside pallets and boxes.