



Department
of
Defense

DoD
Transportation
Electronic Business
(DTEB) Convention

ASC X12 Transaction Set 219
Logistics Service Request
(Version 004010) – Vendor Shipping
Information Request

VERSION 0

December 2007



Department
of
Defense

DoD
Transportation
Electronic Business
(DTEB) Convention

ASC X12 Transaction Set 219
Logistics Service Request
(Version 004010) – Vendor Shipping
Information Request

VERSION 0

CONTENTS

1.0 INTRODUCTION

2.0 CONTROL SEGMENTS

3.0 STANDARD IMPLEMENTATION CONVENTION

4.0 IC ELEMENT MATRIX

5.0 RESERVED

6.0 IC CODE LISTS

7.0 RESERVED

8.0 RESERVED

9.0 RESERVED

(Blank Page)

Section 1.0

INTRODUCTION

This implementation convention (IC) describes the standard or convention that Department of Defense shippers will use to generate requests for logistics services in support of the Defense Transportation 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, contact the following:

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

For the most recent publication, go to the World-Wide Web at

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

[Note: To access the publication, you must have an Information Tool Suite (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. It is presented in the standard publishing format prescribed by the Defense Information Systems Agency (DISA).
- Section 4.0, IC Element Matrix, identifies the application data elements trading partners need to exchange. This section can be used 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.

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

(Blank Page)

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	<p>Interchange Date M DT 6/6 Date of the interchange</p> <p style="background-color: #e0e0e0; padding: 2px;">Date in YYMMDD format assigned by translation software</p>						
M	ISA10	I09	<p>Interchange Time M DT 4/4 Time of the interchange</p> <p style="background-color: #e0e0e0; padding: 2px;">Time in HHMM format assigned by translation software</p>						
M	ISA11	I10	<p>Interchange Control Standards M ID 1/1 Code to identify the agency responsible for the control standard used by the message that is enclosed by the interchange header and trailer</p> <table border="0" style="width: 100%;"> <thead> <tr> <th style="text-align: left; border-bottom: 1px solid black; padding: 2px;"><u>Code</u></th> <th style="text-align: left; border-bottom: 1px solid black; padding: 2px;"><u>Definition</u></th> </tr> </thead> <tbody> <tr> <td style="padding: 2px;">U</td> <td style="padding: 2px;">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	<p>Interchange Control Version Number M ID 5/5 This version number covers the interchange Control segments.</p> <table border="0" style="width: 100%;"> <thead> <tr> <th style="text-align: left; border-bottom: 1px solid black; padding: 2px;"><u>Code</u></th> <th style="text-align: left; border-bottom: 1px solid black; padding: 2px;"><u>Definition</u></th> </tr> </thead> <tbody> <tr> <td style="padding: 2px;">00401</td> <td style="padding: 2px;">Draft Standards for Trial Use Approved for Publication by ASC 12 Procedures Review Board through October 1997</td> </tr> </tbody> </table> <p style="background-color: #e0e0e0; padding: 2px;">Version/release of control segment, as agreed upon by the trading partners</p>	<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								
M	ISA13	I12	<p>Interchange Control Number M NO 9/9 A control number assigned by the interchange sender</p> <p style="background-color: #e0e0e0; padding: 2px;">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.</p>						
M	ISA14	I13	<p>Acknowledgment Requested M ID 1/1 Code sent by the sender to request an interchange acknowledgment (TA1)</p> <table border="0" style="width: 100%;"> <thead> <tr> <th style="text-align: left; border-bottom: 1px solid black; padding: 2px;"><u>Code</u></th> <th style="text-align: left; border-bottom: 1px solid black; padding: 2px;"><u>Definition</u></th> </tr> </thead> <tbody> <tr> <td style="padding: 2px;">0</td> <td style="padding: 2px;">No Acknowledgment Requested</td> </tr> <tr> <td style="padding: 2px;">1</td> <td style="padding: 2px;">Interchange Acknowledgment Requested</td> </tr> </tbody> </table> <p style="background-color: #e0e0e0; padding: 2px;">Send code agreed upon by trading partners.</p>	<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								

M ISA15 I14

Usage Indicator

M ID 1/1

Code to indicate whether data enclosed by this interchange envelope is test, production, or information

<u>Code</u>	<u>Definition</u>
I	Information
P	Production Data
T	Test Data

Use code value as agreed upon by trading partners.

M ISA16 I15

Component Element Separator

AN 1/1

Type is not applicable; the component element separator is a delimiter and not a data element; this field provides the delimiter used to separate component data elements within a composite data structure; this value must be different than the data element separator and the segment terminator.

ASC X12 recommends the use of ASCII character whose hexagonal value is '1F' as the component element separation character

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
			<u>Date assigned by translation software</u>	
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
			<u>Time expressed in HHMM format assigned by translation software</u>	
M	GS06	28	Group Control Number Assigned number originated and maintained by the sender	M N0 1/9
			<u>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.</u>	
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
			<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
			<u>Code</u>	<u>Definition</u>
			004010	Draft Standard Approved for Publication by ASC X12 Procedures Review Board through October 1997
			<u>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.</u>	

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 Total number of segments included in a transaction set including ST and SE segments Number assigned by translation software	M N0 1/6
M	GE02	28 Group Control Number 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.	M N0 1/9

(Blank Page)

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

(Blank Page)

Section 3.0

STANDARD IMPLEMENTATION CONVENTION

This section presents the DoD's convention for interpreting Logistics Service Request using the ASC X12.Transaction Set 219 Logistics Service Request (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 ASC 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.

(Blank Page)

219 Logistics Service Request

Functional Group ID=**AB**

Introduction:

This Draft Standard for Trial Use contains the format and establishes the data contents of the Logistics Service Request Transaction Set (219) for use within the context of an Electronic Data Interchange (EDI) environment. This set can be used by a shipper to transmit data to a logistics related organization to provide order detail relevant to upcoming transportation requirements.

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		
M	020	B9	Beginning Segment for Logistics Services	M	1		
M	030	B9A	Service Request	M	7		
Not Used	040	L11	Business Instructions and Reference Number	O	99		
	050	MS3	Interline Information	O	99		
Not Used	060	ITA	Allowance, Charge or Service	O	20		
Not Used	070	NTE	Note/Special Instruction	O	10		
						99	
Not Used	080	N7	Equipment Details	O	1		
Not Used	090	N7A	Accessorial Equipment Details	O	1		
Not Used	100	N7B	Additional Equipment Details	O	1		
Not Used	110	MEA	Measurements	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>
						99	
Must Use	010	S5	Stop-off Details	O	1		n1
Must Use	020	G62	Date/Time	O	2		
Not Used	030	L11	Business Instructions and Reference Number	O	99		
Not Used	040	ITA	Allowance, Charge or Service	O	20		
						1	
Must Use	050	N1	Name	O	1		
	060	N2	Additional Name Information	O	1		
Must Use	070	N3	Address Information	O	2		
Must Use	080	N4	Geographic Location	O	1		
Not Used	090	PER	Administrative Communications Contact	O	3		
						99	
Not Used	100	G61	Contact	O	1		n2
Not Used	110	L11	Business Instructions and Reference Number	O	10		
Not Used	120	LH6	Hazardous Certification	O	10		
						25	
Not Used	130	LH1	Hazardous Identification Information	O	1		
Not Used	140	LH2	Hazardous Classification Information	O	5		
Not Used	150	LH3	Hazardous Material Shipping Name	O	6		

Not Used	160	LFH	Freeform Hazardous Material Information	O	20	
Not Used	170	LEP	EPA Required Data	O	3	
Not Used	180	LH4	Canadian Dangerous Requirements	O	1	
Not Used	190	LHT	Transborder Hazardous Requirements	O	3	
LOOP ID - 2300					999	
Must Use	200	LX	Assigned Number	O	1	n3
Must Use	210	LCT	Logistics Container Tracking Information	O	1	
Not Used	220	MAN	Marks and Numbers	O	10	
Not Used	230	AT5	Bill of Lading Handling Requirements	O	6	
Not Used	240	AMT	Monetary Amount	O	1	
Not Used	250	CUR	Currency	O	1	
	260	L11	Business Instructions and Reference Number	O	10	
LOOP ID - 2350					99	
Not Used	270	G61	Contact	O	1	n4
Not Used	280	L11	Business Instructions and Reference Number	O	5	
Not Used	290	LH6	Hazardous Certification	O	6	
LOOP ID - 2355					25	
Not Used	300	LH1	Hazardous Identification Information	O	1	
Not Used	310	LH2	Hazardous Classification Information	O	4	
Not Used	320	LH3	Hazardous Material Shipping Name	O	10	
Not Used	330	LFH	Freeform Hazardous Material Information	O	20	
Not Used	340	LEP	EPA Required Data	O	3	
Not Used	350	LH4	Canadian Dangerous Requirements	O	1	
Not Used	360	LHT	Transborder Hazardous Requirements	O	3	
LOOP ID - 2370					999	
Must Use	370	LAD	Lading Detail	O	1	n5
Not Used	380	PO4	Item Physical Details	O	1	
Not Used	390	G69	Line Item Detail - Description	O	99	
Not Used	400	AT5	Bill of Lading Handling Requirements	O	6	
Not Used	410	AMT	Monetary Amount	O	1	
Not Used	420	CUR	Currency	O	1	
Must Use	430	L11	Business Instructions and Reference Number	O	10	
Not Used	440	PER	Administrative Communications Contact	O	1	
LOOP ID - 2375					99	
	450	G61	Contact	O	1	n6
Not Used	460	L11	Business Instructions and Reference Number	O	5	
	470	LH6	Hazardous Certification	O	6	
LOOP ID - 2378					25	
	480	LH1	Hazardous Identification Information	O	1	
	490	LH2	Hazardous Classification Information	O	4	
	500	LH3	Hazardous Material Shipping Name	O	10	
	510	LFH	Freeform Hazardous Material Information	O	20	
Not Used	520	LEP	EPA Required Data	O	3	
Not Used	530	LH4	Canadian Dangerous Requirements	O	1	
Not Used	540	LHT	Transborder Hazardous Requirements	O	3	

Summary:

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

Transaction Set Notes

1. The 2000 Loop defines pickup or delivery information for an order.
2. The 2200 Loop provides hazardous information associated with an order or stop off.
3. The 2300 Loop provides details for tracking containers within an order.
4. The 2350 Loop provides hazardous information associated with container information.
5. The 2370 Loop provides item details.
6. The 2375 Loop provides hazardous information associated with item information.

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 - Logistics Service Request Header

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	
		[2] Transaction Set Identifier Code	
		219 Logistics Service Request	
		[2] Logistics Service Request	
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	
		[3] 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, some applications use all nine digits where the first five might indicate a group control number and the last four represent the sequence of the transaction set within the functional group. Also, the entire nine digit field may simply represent the sequence of the transaction set generated by a trading partner.)	

Segment: **B9** Beginning Segment for Logistics Services
Position: 020
Loop:
Level: Heading
Usage: Mandatory
Max Use: 1
Purpose: To indicate the beginning of a logistics service transaction set
Syntax Notes:
Semantic Notes: 1 B901 is the logistics identification number.
Comments:
Notes: [4] B9 SEGMENT - Record Number/Purpose

Data Element Summary

<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
<u>Des.</u>	<u>Element</u>		
M	B901	127 Reference Identification	M AN 1/30
		Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	
		[5] Offer Record Number	
		Enter a unique logistics identification number assigned by the originator of this transaction set. Positions 1-5 should contain the vendor's CAGE code; positions 6-9 should contain the date of the request in YJJJ format; positions 10-15 should contain a serial number thereby making the offer record number completely unique within the vendor's logs and amongst the enterprise of vendors.	
M	B902	353 Transaction Set Purpose Code	M ID 2/2
		Code identifying purpose of transaction set	
		[6] Transaction Set Purpose Code	
		00 Original	
		[6] Original	
		Use '00' to denote an original request when a vendor is executing both a shipment and closeout	
		13 Request	
		[6] Request	
		Use '13' to denote an original request when a vendor is executing a shipment, but has not yet closed out	
		20 Final Transmission	
		[6] Final Transmission	
		Use '20' to denote vendor executing a final closeout of a shipment; this is sent only as a follow-up to a '13' transaction	
		28 Query	
		[6] Query	
		Use '28' to denote a vendor is only requesting upfront addressing information only	
X	B903	146 Shipment Method of Payment	O ID 2/2
		Refer to 004010 Data Element Dictionary for acceptable code values.	

Segment: **B9A** Service Request
Position: 030
Loop:
Level: Heading
Usage: Mandatory
Max Use: 7
Purpose: To identify the specified logistics services requested
Syntax Notes:
Semantic Notes:
Comments:
Notes: [7] B9A SEGMENT - Service Request Code

Data Element Summary

<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
M	<u>Des.</u> B9A01	<u>Element</u> 1644 Service Request Code	M ID 2/2
		Code indicating the type of logistics service requested	
		[8] Service Request Code	
		FA	Freight Allocation
			[8] Freight Allocation
			Use 'FA' to denote To satisfy X12 syntax compliance

Segment: MS3 Interline Information
Position: 050
Loop:
Level: Heading
Usage: Optional
Max Use: 99
Purpose: To identify the interline carrier and relevant data
Syntax Notes: 1 If MS305 is present, then MS303 is required.
Semantic Notes: 1 MS301 is the Standard Carrier Alpha Code (SCAC) of the interline carrier.
 2 MS303 is the city where the interline was performed.

Comments:
Notes:

[9] MS3 SEGMENT - Carrier Information
 SEGMENT CONDITION: Use this segment when providing carrier information. If B902='00' or '20', this is mandatory; enter the SCAC of the carrier that actually transported the shipment.

Data Element Summary

Ref.	Data Element	Name	Attributes
M	MS301	140 Standard Carrier Alpha Code Standard Carrier Alpha Code [10] Standard Carrier Alpha Code Enter the SCAC of the transportation carrier. 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
M	MS302	133 Routing Sequence Code Code describing the relationship of a carrier to a specific shipment movement [11] Routing Sequence Code B Origin/Delivery Carrier (Any Mode) [11] Origin/Delivery Carrier (Any Mode)	M ID 1/2
X	MS303	19 City Name	X AN 2/30
>>	MS304	91 Transportation Method/Type Code Code specifying the method or type of transportation for the shipment [12] Transportation Method/Type Code AE Air Express [12] Air Express Use 'AE' to denote All small parcel shipments LT Less Than Trailer Load (LTL) [12] Less Than Trailer Load (LTL) Use 'LT' to denote Less than truckload shipment ZZ Mutually defined [12] Mutually defined Use 'ZZ' to denote A truckload shipment	O ID 1/2
X	MS305	156 State or Province Code	O ID 2/2

Segment: **S5 Stop-off Details**
Position: 010
Loop: 2000 Optional (Must Use)
Level: Detail
Usage: Optional (Must Use)
Max Use: 1
Purpose: To specify stop-off detail reference numbers and stop reason
Syntax Notes: 1 If either S503 or S504 is present, then the other is required.
2 If either S505 or S506 is present, then the other is required.
3 If either S507 or S508 is present, then the other is required.
Semantic Notes: 1 S509 is the stop reason description.
Comments:
Notes: [13] S5 SEGMENT - Pickup Information
Report only one S5 loop for each 219B offer record number. Report only one S5 loop for each 219B offer record number.

Data Element Summary

Ref.	Data Element	Name	Attributes
M	S501	165 Stop Sequence Number	M N0 1/3
		Identifying number for the specific stop and the sequence in which the stop is to be performed	
		[14] Sequence Number	
		Enter value one (1).	
M	S502	163 Stop Reason Code	M ID 2/2
		Code specifying the reason for the stop	
		[15] Reason Code	
		LD Load	
		[15] Load	
X	S503	81 Weight	X R 1/10
X	S504	188 Weight Unit Code	X ID 1/1
		Refer to 004010 Data Element Dictionary for acceptable code values.	
X	S505	382 Number of Units Shipped	X R 1/10
X	S506	355 Unit or Basis for Measurement Code	X ID 2/2
		Refer to 004010 Data Element Dictionary for acceptable code values.	
X	S507	183 Volume	X R 1/8
X	S508	184 Volume Unit Qualifier	X ID 1/1
		Refer to 004010 Data Element Dictionary for acceptable code values.	
X	S509	352 Description	O AN 1/80
X	S510	154 Standard Point Location Code	O ID 6/9
X	S511	190 Accomplish Code	O ID 1/1
		Refer to 004010 Data Element Dictionary for acceptable code values.	

Segment: **G62** Date/Time
Position: 020
Loop: 2000 Optional (Must Use)
Level: Detail
Usage: Optional (Must Use)
Max Use: 2
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: [16] G62 SEGMENT - Ship Date/Time

Data Element Summary

Ref.	Data Element	Name	Attributes
>>	G6201	432 Date Qualifier	X ID 2/2
		Code specifying type of date	
		[17] Ship Date Qualifier	
		10 Requested Ship Date/Pick-up Date	
		[17] Requested Ship Date/Pick-up Date Use '10' to denote B902 = '13' or '28'	
		11 Shipped on This Date	
		[17] Shipped on This Date Use '11' to denote B902 = '00' or '20'	
>>	G6202	373 Date	X DT 8/8
		Date expressed as CCYYMMDD	
		[18] Ship Date If B902 = '00' or '20', enter the actual ship date/time in this segment. If B902 = '13' or '28', enter the scheduled pickup date/time.	
	G6203	176 Time Qualifier	X ID 1/2
		Code specifying the reported time	
		[19] Ship Time Qualifier If G6201 = '10' use code value 'I', 'K', or 'U'. If G6201 = '11' use code value '8'.	
		8 Actual Pickup Time	
		[19] Actual Pickup Time	
		I Earliest Requested Pick Up Time	
		[19] Earliest Requested Pick Up Time	
		K Latest Requested Pick Up Time	
		[19] Latest Requested Pick Up Time	
		U Scheduled Pick Up Time	
		[19] Scheduled Pick Up 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)	
		[20] Ship Time Format is 'HHMM'	
	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	

[21] Ship Time Code
ELEMENT CONDITION: Required if G6204 is present.
SOURCE: ISO 8601 available from American National Standards Institute

LT Local Time

[21] Local Time

UT Universal Time Coordinate

[21] Universal Time Coordinate

Segment: **N1** Name
Position: 050
Loop: 2100 Optional (Must Use)
Level: Detail
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: [22] N1 SEGMENT - Origin (SF) Data

Data Element Summary

Ref.	Data	Name	Attributes
<u>Des.</u>	<u>Element</u>		
M	N101	98 Entity Identifier Code Code identifying an organizational entity, a physical location, property or an individual [23] Origin Name Qualifier SF Ship From [23] Ship From	M ID 2/3
	N102	93 Name Free-form name [24] Origin Name	X AN 1/60
>>	N103	66 Identification Code Qualifier Code designating the system/method of code structure used for Identification Code (67) [25] DoDAAC/CAGE Qualifier 10 Department of Defense Activity Address Code (DODAAC) [25] Department of Defense Activity Address Code (DODAAC) 33 Commercial and Government Entity (CAGE) [25] Commercial and Government Entity (CAGE)	X ID 1/2
>>	N104	67 Identification Code Code identifying a party or other code [26] Origin DoDAAC/CAGE	X AN 2/80
X	N105	706 Entity Relationship Code Refer to 004010 Data Element Dictionary for acceptable code values.	O ID 2/2
X	N106	98 Entity Identifier Code Refer to 004010 Data Element Dictionary for acceptable code values.	O ID 2/3

Segment: **N2 Additional Name Information**
Position: 060
Loop: 2100 Optional (Must Use)
Level: Detail
Usage: Optional
Max Use: 1
Purpose: To specify additional names or those longer than 35 characters in length
Syntax Notes:
Semantic Notes:
Comments:
Notes: [27] N2 SEGMENT - Additional Origin Name
 SEGMENT CONDITION: Use if Additional Origin Name applies.

Data Element Summary

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
M	N201	93	Name Free-form name	M AN 1/60
X	N202	93	[28] Additional Origin Name Name	O AN 1/60

Segment: N3 Address Information
Position: 070
Loop: 2100 Optional (Must Use)
Level: Detail
Usage: Optional (Must Use)
Max Use: 2
Purpose: To specify the location of the named party
Syntax Notes:
Semantic Notes:
Comments:
Notes: [29] N3 SEGMENT - Origin (SF) Street Address

Data Element Summary

	Ref.	Data	Attributes
	Des.	Element Name	
M	N301	166 Address Information Address information [30] Origin Street Address	M AN 1/55
X	N302	166 Address Information	O AN 1/55

Segment: **N4 Geographic Location**
Position: 080
Loop: 2100 Optional (Must Use)
Level: Detail
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: [31] N4 SEGMENT - Origin (SF) City Name, State and ZIP Codes

Data Element Summary

Ref.	Data	Name	Attributes
<u>Des.</u>	<u>Element</u>		
>>	N401	19 City Name	O AN 2/30
		Free-form text for city name	
		[32] Origin City Name	
>>	N402	156 State or Province Code	O ID 2/2
		Code (Standard State/Province) as defined by appropriate government agency	
		[33] Origin State Code	
		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)	
		[34] Origin ZIP Code	
		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	
X	N404	26 Country Code	O ID 2/3
X	N405	309 Location Qualifier	X ID 1/2
		Refer to 004010 Data Element Dictionary for acceptable code values.	
X	N406	310 Location Identifier	O AN 1/30

Segment: **LX** Assigned Number
Position: 200
Loop: 2300 Optional (Must Use)
Level: Detail
Usage: Optional (Must Use)
Max Use: 1
Purpose: To reference a line number in a transaction set
Syntax Notes:
Semantic Notes:
Comments:
Notes:

[35] LX SEGMENT - Freight Piece Loop Provide one LX loop for each piece of freight. If shipping multiple pieces under a single transportation control number (TCN), use a separate LX loop for each piece, but use the same TCN.

Data Element Summary

<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
M	<u>Des.</u> LX01	<u>Element</u> 554 Assigned Number	M N0 1/6

Number assigned for differentiation within a transaction set

[36] Assigned Loop Number
Begin with the value one (1) and increment by one for each shipment unit loop.

Segment: **LCT** **Logistics Container Tracking Information**
Position: 210
Loop: 2300 Optional (Must Use)
Level: Detail
Usage: Optional (Must Use)
Max Use: 1
Purpose: To identify the necessary information for tracking containers and identifying contents of containers

- Syntax Notes:**
- 1 If either LCT04 or LCT05 is present, then the other is required.
 - 2 If LCT06 is present, then at least one of LCT07 LCT08 or LCT09 is required.
 - 3 If LCT07 is present, then LCT06 is required.
 - 4 If LCT08 is present, then LCT06 is required.
 - 5 If LCT09 is present, then LCT06 is required.
 - 6 If either LCT10 or LCT11 is present, then the other is required.

- Semantic Notes:**
- 1 LCT01 is the container identification number.
 - 2 LCT12 should only be used when LCT02 is equal to PLT.

Comments:

Notes: [37] LCT SEGMENT - Shipment Unit
This S5 loop describes the shipment unit and content information.

Data Element Summary

<u>Ref.</u>	<u>Data</u>	<u>Element</u>	<u>Name</u>	<u>Attributes</u>
M	LCT01	127	Reference Identification	M AN 1/30
			Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	
			[38] Shipment Unit TCN	
			Use lead TCN of shipment unit (container TCN, lead TCN, pallet TCN, etc.) for the shipment unit.	
M	LCT02	211	Packaging Form Code	M ID 3/3
			Code for packaging form of the lading quantity	
			[39] Type Pack Code	
		BAG	Bag	
			[39] Bag	
			Use 'BAG' to denote Bag, burlap or cloth	
		BAL	Bale	
			[39] Bale	
		BBL	Barrel	
			[39] Barrel	
		BDL	Bundle	
			[39] Bundle	
		BOX	Box	
			[39] Box	
		BSK	Basket or hamper	
			[39] Basket or hamper	
			Use 'BSK' to denote Basket	
		CAB	Cabinet	
			[39] Cabinet	
		CAN	Can	
			[39] Can	
		CAS	Case	
			[39] Case	
		CBY	Carboy	
			[39] Carboy	
		CNA	Household Goods Containers, Wood	

	[39] Household Goods Containers, Wood Use 'CNA' to denote HHG containers, wood
CNB	Container, MAC-ISO (Military Airlift Container - International Standards Organization) Light Weight 8x8x20 Foot Air An air container conforming to ISO standards
	[39] Container, MAC-ISO (Military Airlift Container - International Standards Organization) Light Weight 8x8x20 Foot Air Use 'CNB' to denote Container, MAC-ISO, lt. wgt. 8x8x20 foot air
CNC	Container, Navy Cargo Transporter
	[39] Container, Navy cargo transporter
CND	Container, Commercial Highway Lift
	[39] Container, commercial highway lift
CNE	Engine Container
	[39] Engine Container
CNF	Multiwall Container Secured to Warehouse Pallet
	[39] Multiwall Container Secured to Warehouse Pallet Use 'CNF' to denote Multiwall container secured to warehouse plt
CNT	Container
	[39] Container Use 'CNT' to denote Container, other than CC, CM, CU, CW, MW, MX
CNX	CONEX - Container Express An 8x8x8-foot container used for packaging and shipping military material
	[39] CONEX - Container Express Use 'CNX' to denote CONEX (Gov't owned container)
COL	Coil
	[39] Coil
CRD	Cradle
	[39] Cradle Use 'CRD' to denote Engine cradle or dolly
CRT	Crate
	[39] Crate
CTN	Carton
	[39] Carton
CYL	Cylinder
	[39] Cylinder
DRM	Drum
	A large container with a cylindrical shape; top may have removable or sealed top sides may be fiberboard or metal
	[39] Drum
DUF	Duffle Bag
	[39] Duffle Bag Use 'DUF' to denote Dufflebag
ENV	Envelope
	[39] Envelope
HPR	Hamper
	[39] Hamper
KEG	Keg
	[39] Keg
LSE	Loose

	[39] Loose
	Use 'LSE' to denote Loose, not packed
MLV	MILVAN - Military Van
	A 20-foot transportation van that conforms to ISO standards
	[39] MILVAN - Military Van
	Use 'MLV' to denote MILVAN
MSV	MSCVAN - Military Sealift Command Van
	A 35-foot transportation van
	[39] MSCVAN - Military Sealift Command Van
	Use 'MSV' to denote MSCVAN
MXD	Mixed Type Pack
	[39] Mixed Type Pack
	Use 'MXD' to denote Mixed
PAL	Pail
	[39] Pail
PCS	Pieces
	[39] Pieces
	Use 'PCS' to denote Piece
PLL	New Code Added by IC
	[39] 463L Air Pallet
PLT	Pallet
	[39] Pallet
	Use 'PLT' to denote Palletized unit load other than code MW
REL	Reel
	[39] Reel
ROL	Roll
	[39] Roll
SAK	Sack
	[39] Sack
	Use 'SAK' to denote Sack, paper
SCS	Suitcase
	[39] Suitcase
SHT	Sheet
	[39] Sheet
SKD	Skid
	[39] Skid
SKE	Skid, elevating or lift truck
	[39] Skid, elevating or lift truck
	Use 'SKE' to denote Skid, box
SPL	Spool
	[39] Spool
SVN	SEAVAN - Sea Van
	A commercial or military 40-foot transportation container that conforms to ISO standards
	[39] SEAVAN - Sea Van
	Use 'SVN' to denote SEAVAN
TBE	Tube
	[39] Tube
TBN	Tote Bin
	[39] Tote Bin
	Use 'TBN' to denote SEAVAN - TOTE
TKR	Tank Car
	[39] Tank Car

TKT	Tank Truck
	[39] Tank Truck
TRK	Trunk and Chest
	[39] Trunk and Chest
	Use 'TRK' to denote Footlocker (Trunk)
TRU	Truck
	[39] Truck
TUB	Tub
	[39] Tub
UNT	Unit
	[39] Unit
	Use 'UNT' to denote Unitized (use RT for unitized cargo on RORO)
VEH	Vehicles
	[39] Vehicles
VOC	New Code Added by IC
	[39] Vehicle in Operating Condition
VPK	Van Pack
	[39] Van Pack
	Use 'VPK' to denote Van chassis
WHE	On Own Wheel
	[39] On Own Wheel
	Use 'WHE' to denote RORO (roll-off, roll-on)
WRP	Wrapped
	[39] Wrapped

X	LCT03	352	Description	O	AN 1/80
>>	LCT04	188	Weight Unit Code	X	ID 1/1

Code specifying the weight unit

[40] Shipment Unit Weight Qualifier

E	Metric Ton
	[40] Metric Ton
G	Grams
	[40] Grams
K	Kilograms
	[40] Kilograms
L	Pounds
	[40] Pounds
M	Measurement Ton
	[40] Measurement Ton
O	Ounces
	[40] Ounces
S	Short Ton
	[40] Short Ton
T	Long Ton
	[40] Long Ton

>>	LCT05	395	Unit Weight	X	R 1/8
-----------------	--------------	------------	--------------------	----------	--------------

Numeric value of weight per unit

[41] Shipment Unit Weight

	LCT06	90	Measurement Unit Qualifier	X	ID 1/1
--	--------------	-----------	-----------------------------------	----------	---------------

Code specifying the linear dimensional unit

[42] Shipment Unit Measurement Unit Qualifier

ELEMENT CONDITION: Required if any of LCT07, LCT08, or LCT09 is used.

		C	Centimeters		
			[42] Centimeters		
		E	Feet		
			[42] Feet		
		N	Inches		
			[42] Inches		
		X	Meters		
			[42] Meters		
	LCT07	82	Length	X R 1/8	
			Largest horizontal dimension of an object measured when the object is in the upright position		
			[43] Shipment Unit Length		
			ELEMENT CONDITION: Provide if available.		
	LCT08	189	Width	X R 1/8	
			Shorter measurement of the two horizontal dimensions measured with the object in the upright position		
			[44] Shipment Unit Width		
			ELEMENT CONDITION: Provide if available.		
	LCT09	65	Height	X R 1/8	
			Vertical dimension of an object measured when the object is in the upright position		
			[45] Shipment Unit Height		
			ELEMENT CONDITION: Provide if available.		
>>	LCT10	184	Volume Unit Qualifier	X ID 1/1	
			Code identifying the volume unit		
			[46] Shipment Unit Volume Unit Qualifier		
		E	Cubic Feet		
			[46] Cubic Feet		
		X	Cubic Meters		
			[46] Cubic Meters		
>>	LCT11	183	Volume	X R 1/8	
			Value of volumetric measure		
			[47] Shipment Unit Volume		
X	LCT12	399	Pallet Exchange Code	O ID 1/1	
			Refer to 004010 Data Element Dictionary for acceptable code values.		

Segment: **L11 Business Instructions and Reference Number**
Position: 260
Loop: 2300 Optional (Must Use)
Level: Detail
Usage: Optional
Max Use: 10
Purpose: To specify instructions in this business relationship or a reference number
Syntax Notes: 1 At least one of L1101 or L1103 is required.
 2 If either L1101 or L1102 is present, then the other is required.

Semantic Notes:

Comments:

Notes:

[48] L11 SEGMENT - Radio Frequency Identification Tag Number
 SEGMENT CONDITION: Required when RFID Tag Number applies.
 [51] L11 SEGMENT - DPMS Shipment Control Number
 SEGMENT CONDITION: If B902 = '20', enter the DPMS assigned Shipment Controlled Number from the EDI 220B, Vendor Shipping Information Response transaction related to this offer number.
 [54] L11 SEGMENT - Transportation Tracking Number
 SEGMENT CONDITION: Mandatory if B902 = '00' or '20'. If B902 = '13' or '28', this segment should be used if information is available.
 [57] L11 SEGMENT - Special Handling Minimum Temperature Allowed
 SEGMENT CONDITION: Use the segment when Special Temperature Handling is required.
 [60] L11 SEGMENT - Special Handling Maximum Temperature Allowed
 SEGMENT CONDITION: Use the segment when special temperature handling is required.

Data Element Summary

<u>Ref.</u>	<u>Data</u>	<u>Element</u>	<u>Name</u>	<u>Attributes</u>
>>	L1101	127	Reference Identification	X AN 1/30
			Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	
			[49] Radio Frequency Identification Tag Number Enter the RFID Tag Number associated with the freight piece.	
			[52] DPMS Shipment Control Number Enter DPMS Shipment Control Number.	
			[55] Transportation Tracking Number Enter the Tracking Number for small parcel shipments or the freight waybill for truckload and less than truckload motor shipments.	
			[58] Special Handling Minimum Temperature Allowed Enter Minimum Temperature (in Fahrenheit) at which freight may be kept.	
			[61] Special Handling Maximum Temperature Allowed Enter Maximum Temperature (in Fahrenheit) at which freight may be kept.	
>>	L1102	128	Reference Identification Qualifier	X ID 2/3
			Code qualifying the Reference Identification	
			[50] Radio Frequency Identification Tag Number Qualifier	
			[53] DPMS Shipment Control Number Qualifier	
			[56] Transportation Tracking Number Qualifier	
			[59] Minimum Temperature Allowed Qualifier	
			[62] Maximum Temperature Allowed Qualifier	
		06	System Number A unique number assigned by the manufacturer to identify the initial computer system sold to the customer	
			[53] System Number Use '06' to denote DPMS Shipment Control Number	
		2I	Tracking Number	
			[56] Tracking Number	
		HQ	Reinsurance Reference	

				[62] Reinsurance Reference Use 'HQ' to denote Maximum Temperature Allowed
			JH	Tag
				[50] Tag
			SU	Use 'JH' to denote Passive RFID tag Special Processing Code
				Unique code identifying the special handling requirements for the claim
				[59] Special Processing Code
			TPN	Use 'SU' to denote Minimum Temperature Allowed Transponder Number
				[50] Transponder Number
				Use 'TPN' to denote Active RFID tag
X	L1103	352	Description	X AN 1/80

Segment: **LAD** Lading Detail
Position: 370
Loop: 2370 Optional (Must Use)
Level: Detail
Usage: Optional (Must Use)
Max Use: 1
Purpose: To transmit detailed lading data pertinent to a pickup or delivery
Syntax Notes:

- 1 If either LAD01 or LAD02 is present, then the other is required.
- 2 If either LAD03 or LAD04 is present, then the other is required.
- 3 If either LAD05 or LAD06 is present, then the other is required.
- 4 If either LAD07 or LAD08 is present, then the other is required.
- 5 If either LAD09 or LAD10 is present, then the other is required.
- 6 If either LAD11 or LAD12 is present, then the other is required.

Semantic Notes:

Comments:

Notes:

[63] LAD SEGMENT - Detailed Order Information
Repeat this sub-loop for each requisition number associated with the TCN identified in the LX loop. If there is no requisition number, then repeat the loop for each unique combination of purchase order, CLIN, and release number associated with the TCN identified in the LX loop. Repeat this sub-loop for each requisition number associated with the TCN identified in the LX loop. If there is no requisition number, then repeat the loop for each unique combination of purchase order, CLIN, and release number associated with the TCN identified in the LX loop.

Data Element Summary

	<u>Ref.</u>	<u>Data</u>	<u>Attributes</u>
	<u>Des.</u>	<u>Element Name</u>	
X	LAD01	211 Packaging Form Code	X ID 3/3
		Refer to 004010 Data Element Dictionary for acceptable code values.	
>>	LAD02	80 Lading Quantity	X N0 1/7
		Number of units (pieces) of the lading commodity	
		[64] Quantity Shipped	
		Enter the actual line item quantity packaged to be shipped for the order.	
X	LAD03	188 Weight Unit Code	X ID 1/1
		Refer to 004010 Data Element Dictionary for acceptable code values.	
X	LAD04	395 Unit Weight	X R 1/8
X	LAD05	188 Weight Unit Code	X ID 1/1
		Refer to 004010 Data Element Dictionary for acceptable code values.	
X	LAD06	81 Weight	X R 1/10
>>	LAD07	235 Product/Service ID Qualifier	X ID 2/2
		Code identifying the type/source of the descriptive number used in Product/Service ID (234)	
		[65] Purchase Order Number Qualifier	
		PO Purchase Order Number	
		[65] Purchase Order Number	
>>	LAD08	234 Product/Service ID	X AN 1/48
		Identifying number for a product or service	
		[66] Purchase Order Number	
		Insert the Purchase Order Number, delivery order number, or purchase request number without any dashes or separators. (e.g., SPM75002D9720).	
>>	LAD09	235 Product/Service ID Qualifier	X ID 2/2
		Code identifying the type/source of the descriptive number used in Product/Service ID (234)	
		[67] Contract Line Item Number (CLIN) Qualifier	
		PL Purchaser's Order Line Number	
		[67] Purchaser's Order Line Number	

			Use 'PL' to denote Contract Line Item Number	
>>	LAD10	234	Product/Service ID	X AN 1/48
			Identifying number for a product or service	
			[68] Contract Line Item Number (CLIN)	
			Enter the CLIN and sub-CLIN (if applicable) without dashes or separators.	
>>	LAD11	235	Product/Service ID Qualifier	X ID 2/2
			Code identifying the type/source of the descriptive number used in Product/Service ID (234)	
			[69] Customer Release Number Qualifier	
			RN Release Number	
			[69] Release Number	
			Use 'RN' to denote Customer Release Number	
>>	LAD12	234	Product/Service ID	X AN 1/48
			Identifying number for a product or service	
			[70] Customer Release Number	
			Enter the Customer Release Number from the purchase order.	
X	LAD13	79	Lading Description	O AN 1/50

Segment: **L11 Business Instructions and Reference Number**
Position: 430
Loop: 2370 Optional (Must Use)
Level: Detail
Usage: Optional (Must Use)
Max Use: 10
Purpose: To specify instructions in this business relationship or a reference number
Syntax Notes: 1 At least one of L1101 or L1103 is required.
 2 If either L1101 or L1102 is present, then the other is required.

Semantic Notes:

Comments:

Notes:

[71] L11 SEGMENT - Vendor Contract Terms
 Use to denote the type of variance authorized in the contract.
 [74] L11 SEGMENT - Purchase Requisition Number
 SEGMENT CONDITION: Use for non-stock buys.

Data Element Summary

Ref.	Data	Name	Attributes
<u>Des.</u>	<u>Element</u>	<u>Name</u>	<u>Attributes</u>
>>	L1101	127 Reference Identification	X AN 1/30
		Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	
		[72] Vendor Contract Terms	
		[75] Purchase Requisition Number	
		Enter Purchase Requisition Number.	
		O New Code Added by IC	
		[72] Over-ship authorized	
		U New Code Added by IC	
		[72] Under-ship authorized	
		Z New Code Added by IC	
		[72] No variance authorized	
>>	L1102	128 Reference Identification Qualifier	X ID 2/3
		Code qualifying the Reference Identification	
		[73] Vendor Contract Terms Qualifier	
		[76] Purchase Requisition Number Qualifier	
		RQ Purchase Requisition Number	
		[76] Purchase Requisition Number	
		TC Vendor Terms	
		[73] Vendor Terms	
		Use 'TC' to denote Vendor Contract Terms	
X	L1103	352 Description	X AN 1/80

Segment: **G61 Contact**
Position: 450
Loop: 2375 Optional
Level: Detail
Usage: Optional
Max Use: 1
Purpose: To identify a person or office to whom communications should be directed
Syntax Notes: 1 If either G6103 or G6104 is present, then the other is required.
Semantic Notes:
Comments: 1 G6103 qualifies G6104.
Notes: [77] G61 SEGMENT - HAZMAT Contact
 LOOP CONDITION: Used only if shipment contains hazardous materials.

Data Element Summary

Ref.	Data	Name	Attributes
<u>Des.</u>	<u>Element</u>	<u>Name</u>	<u>Attributes</u>
M	G6101	366 Contact Function Code	M ID 2/2
		Code identifying the major duty or responsibility of the person or group named	
		[78] HAZMAT Contact Qualifier	
		HM Hazardous Material Contact	
		[78] Hazardous Material Contact	
M	G6102	93 Name	M AN 1/60
		Free-form name	
		[79] HAZMAT Contact Name	
	G6103	365 Communication Number Qualifier	X ID 2/2
		Code identifying the type of communication number	
		[80] Telephone Number Qualifier	
		AP Alternate Telephone	
		[80] Alternate Telephone	
		Use 'AP' to denote Toll-free emergency number	
		TE Telephone	
		[80] Telephone	
		Use 'TE' to denote Commercial emergency number	
	G6104	364 Communication Number	X AN 1/80
		Complete communications number including country or area code when applicable	
		[81] HAZMAT Contact Telephone Number	
		Enter commercial telephone number (include area code) and any associated extension numbers.	
X	G6105	443 Contact Inquiry Reference	O AN 1/20

Segment: **LH6** Hazardous Certification
Position: 470
Loop: 2375 Optional
Level: Detail
Usage: Optional
Max Use: 6
Purpose: To specify the name of the person certifying that the shipment complies with the regulations and/or the actual certification

Syntax Notes: 1 If either LH602 or LH603 is present, then the other is required.

Semantic Notes:

Comments:

Notes: [82] LH6 SEGMENT - Hazardous Certification
 SEGMENT CONDITION: Used only if shipment contains hazardous materials.

Data Element Summary

Ref.	Data Element	Name	Attributes
>>	LH601	93 Name Free-form name	O AN 1/60
>>	LH602	272 Hazardous Certification Code Code indicating the form of the hazardous certification	X ID 1/1
>>	LH603	273 Hazardous Certification Declaration Hazardous material certification verbiage as required by Title 49 of Code of Federal Regulations	X AN 1/25
	LH604	273 Hazardous Certification Declaration Hazardous material certification verbiage as required by Title 49 of Code of Federal Regulations	O AN 1/25

Segment: **LH1** Hazardous Identification Information
Position: 480
Loop: 2378 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: [87] LH1 SEGMENT - HAZMAT Quantities
 LOOP CONDITION: Required if the shipment contains hazardous material.

Data Element Summary

<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
<u>Des.</u>	<u>Element</u>		
M	LH101	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	
		[88] HAZMAT - Unit of Measure Code	
		Contains the code identifying the Unit of Measure (type of packaging) for which the data in LH102 is reported. Use LH106 to express weight and volume.	
		BA Bale	
		[88] Bale	
		BD Bundle	
		[88] Bundle	
		BG Bag	
		[88] Bag	
		BR Barrel	
		[88] Barrel	
		BS Basket	
		[88] Basket	
		BX Box	
		[88] Box	
		CA Case	
		[88] Case	
		CB Carboy	
		[88] Carboy	
		CH Container	
		[88] Container	
		CL Cylinder	
		[88] Cylinder	
		CN Can	
		[88] Can	
		CP Crate	
		[88] Crate	
		CT Carton	
		[88] Carton	
		CX Coil	

	[88] Coil
DR	Drum
	[88] Drum
EV	Envelope
	[88] Envelope
KE	Keg
	A unit of weight equal to 100 pounds, used for nails
	[88] Keg
NV	Vehicle
	[88] Vehicle
PA	Pail
	[88] Pail
PC	Piece
	[88] Piece
PF	Pallet (Lift)
	[88] Pallet (Lift)
PL	Pallet/Unit Load
	[88] Pallet/Unit Load
RE	Reel
	[88] Reel
RL	Roll
	[88] Roll
SH	Sheet
	[88] Sheet
SJ	Sack
	[88] Sack
SO	Spool
	[88] Spool
SV	Skid
	[88] Skid
TB	Tube
	[88] Tube
TE	Tote
	[88] Tote
TK	Tank
	[88] Tank
WR	Wrap
	[88] Wrap
ZZ	Mutually Defined
	[88] Mutually Defined

M LH102 80 Lading Quantity M N0 1/7

Number of units (pieces) of the lading commodity

[89] HAZMAT - Lading Quantity

Contain the number of units (pieces) of the lading commodity that is hazardous. Reference 49 CFR 172.202c.

>> LH103 277 UN/NA Identification Code O ID 6/6

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

[90] HAZMAT - UN/NA ID 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	
X	LH104	200	Hazardous Materials Page	O AN 1/6
X	LH105	22	Commodity Code	O AN 1/30
	LH106	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

[91] HAZMAT - English Measurement Code

Use the unit of measure codes for quantity or volume of non bulk shipments. This will typically be pounds, cubic feet, or a unit of measure other than pieces. If the weight of the hazardous material is measured in other than the above listed Weight Units of Measure, refer to X12 Standard, DE 355. Use LH101 to express type of packaging.

ELEMENT CONDITION: Required if LH107 is used.

01	Actual Pounds
	[91] Actual Pounds
02	Statute Mile
	[91] Statute Mile
03	Seconds
	[91] Seconds
04	Small Spray
	[91] Small Spray
05	Lifts
	[91] Lifts
06	Digits
	Expresses a value using total number of digits, e.g., 6 digits
	[91] Digits
07	Strand
	[91] Strand
08	Heat Lots
	[91] Heat Lots
09	Tire
	[91] Tire
10	Group
	[91] Group
11	Outfit
	[91] Outfit
12	Packet
	[91] Packet
13	Ration
	[91] Ration
14	Shot
	[91] Shot
15	Stick
	[91] Stick
16	115 Kilogram Drum
	A cylindrical container whose contents weigh 115 kilograms when full
	[91] 115 Kilogram Drum
17	100 Pound Drum
	A cylindrical container whose contents weigh 100 pounds when full
	[91] 100 Pound Drum
18	55 Gallon Drum

	A cylindrical container whose volume is equal to 55 gallons [91] 55 Gallon Drum
19	Tank Truck A liquid-carrying highway vehicle whose volume is variable according to the customer's needs and which is used as a measure of goods ordered, sold, and delivered; differs from a tank car which transports liquids by rail [91] Tank Truck
1A	Car Mile One freight car moving one mile [91] Car Mile
1B	Car Count The number of freight cars moving over a specified track [91] Car Count
1C	Locomotive Count The number of locomotives moved over a specified track [91] Locomotive Count
1D	Caboose Count The number of cabooses moved over a specified track [91] Caboose Count
1E	Empty Car Unloaded or empty cars moving over a specified track [91] Empty Car
1F	Train Mile The first locomotive in a train moving one mile [91] Train Mile
1G	Fuel Usage (Gallons) The number of gallons of diesel fuel used to move a train or all trains over specified trackage [91] Fuel Usage (Gallons)
1H	Caboose Mile One caboose moving one mile [91] Caboose Mile
1I	Fixed Rate Indicates a predetermined or set rate for usage of a facility [91] Fixed Rate
1J	Ton Miles Tons of freight multiplied by the number of times moved; includes non-revenue freight such as material used to maintain trackage and right-of-way [91] Ton Miles
1K	Locomotive Mile One locomotive moving one mile [91] Locomotive Mile
1L	Total Car Count The sum of cars, locomotives, and cabooses moving over a specified track; the conversion rate for locomotives and cabooses is set by contract [91] Total Car Count
1M	Total Car Mile The sum of car miles, locomotive miles, and caboose miles moved over a specified track; the conversion rate for locomotives and cabooses is set by contract

	[91] Total Car Mile
1N	Count
	[91] Count
1O	Season
	[91] Season
1P	Tank Car
	[91] Tank Car
1Q	Frames
	[91] Frames
1R	Transactions
	[91] Transactions
1X	Quarter Mile
	[91] Quarter Mile
20	20 Foot Container
	A sea-land rectangular container box whose capacity is defined by its longest dimension and by which product shipments are measured and billed
	[91] 20 Foot Container
21	40 Foot Container
	A sea-land rectangular container box whose capacity is defined by its longest dimension and by which product shipments are measured and billed
	[91] 40 Foot Container
22	Deciliter per Gram
	Represents viscosity, Cuene intrinsic viscosity, and limit intrinsic viscosity
	[91] Deciliter per Gram
23	Grams per Cubic Centimeter
	Represents product density
	[91] Grams per Cubic Centimeter
24	Theoretical Pounds
	[91] Theoretical Pounds
25	Grams per Square Centimeter
	Represents product basis weight
	[91] Grams per Square Centimeter
26	Actual Tons
	[91] Actual Tons
27	Theoretical Tons
	[91] Theoretical Tons
28	Kilograms per Square Meter
	Represents product basis weight
	[91] Kilograms per Square Meter
29	Pounds per 1000 Square Feet
	Represents product basis weight
	[91] Pounds per 1000 Square Feet
2A	Radians Per Second
	Measure of angular velocity
	[91] Radians Per Second
2B	Radians Per Second Squared
	Measure of angular acceleration
	[91] Radians Per Second Squared
2C	Roentgen

	Unit of X-radiation or gamma radiation equal to the amount of radiation that produces in one cubic centimeter of dry air at 0 degrees Celsius and standard atmospheric pressure ionization of either sign equal to one electrostatic unit of charge [91] Roentgen
2F	Volts Per Meter Measure of electrical field strength [91] Volts Per Meter
2G	Volts (Alternating Current) Measure of electrical potential [91] Volts (Alternating Current)
2H	Volts (Direct Current) Measure of electrical potential [91] Volts (Direct Current)
2I	British Thermal Units (BTUs) Per Hour British thermal units per hour [91] British Thermal Units (BTUs) Per Hour
2J	Cubic Centimeters Per Second Rate of flow [91] Cubic Centimeters Per Second
2K	Cubic Feet Per Hour Rate of flow [91] Cubic Feet Per Hour
2L	Cubic Feet Per Minute Rate of flow [91] Cubic Feet Per Minute
2M	Centimeters Per Second Rate of speed [91] Centimeters Per Second
2N	Decibels A unit for expressing the relative intensity of sounds on a scale of 0 for the least perceptible sound to about 130 for the average pain level [91] Decibels
2P	Kilobyte Unit of computer storage capacity equal to 1000 bytes [91] Kilobyte
2Q	Kilobecquerel Unit of radiation [91] Kilobecquerel
2R	Kilocurie Unit of radiation [91] Kilocurie
2U	Megagram Unit of mass [91] Megagram
2V	Megagrams Per Hour [91] Megagrams Per Hour
2W	Bin Storage container used as a unit of measurement [91] Bin

2X	Meters Per Minute Measure of linear speed [91] Meters Per Minute
2Y	Milliroentgen Unit of radiation [91] Milliroentgen
2Z	Millivolts Unit of electrical potential [91] Millivolts
30	Horsepower Days per Air Dry Metric Tons Represents the energy requirements for processing a product [91] Horsepower Days per Air Dry Metric Tons
31	Catchweight [91] Catchweight
32	Kilograms per Air Dry Metric Tons Represents chemical addition rate during product manufacture or chemical addition within the finished product [91] Kilograms per Air Dry Metric Tons
33	Kilopascal Square Meters per Gram Represents burst index measurement for pulp products [91] Kilopascal Square Meters per Gram
34	Kilopascals per Millimeter Represents hardness index of pulp products [91] Kilopascals per Millimeter
35	Milliliters per Square Centimeter Second Represents porosity of a sheet of material [91] Milliliters per Square Centimeter Second
36	Cubic Feet per Minute per Square Foot Represents porosity of a sheet of material [91] Cubic Feet per Minute per Square Foot
37	Ounces per Square Foot Represents sheet weight [91] Ounces per Square Foot
38	Ounces per Square Foot per 0.01 Inch Represents sheet density [91] Ounces per Square Foot per 0.01 Inch
39	Basis Points [91] Basis Points
3B	Megajoule Unit of energy or heat [91] Megajoule
3C	Manmonth Measure of work output by a single person during a typical work month [91] Manmonth
3E	Pounds Per Pound of Product [91] Pounds Per Pound of Product
3F	Kilograms Per Liter of Product [91] Kilograms Per Liter of Product
3G	Pounds Per Piece of Product

	[91] Pounds Per Piece of Product
3H	Kilograms Per Kilogram of Product
	[91] Kilograms Per Kilogram of Product
3I	Kilograms Per Piece of Product
	[91] Kilograms Per Piece of Product
40	Milliliter per Second
	Represents rate of absorbency
	[91] Milliliter per Second
41	Milliliter per Minute
	Represents rate of absorbency
	[91] Milliliter per Minute
43	Super Bulk Bag
	A cloth, plastic, or paper-based bag having the dimensions of the pallet on which it is constructed and varying in height according to the weight and density of product contained; typically transports dry, loose materials in bulk form
	[91] Super Bulk Bag
44	500 Kilogram Bulk Bag
	A flexible container for bulk goods whose contents weigh 500 kilograms when full
	[91] 500 Kilogram Bulk Bag
45	300 Kilogram Bulk Bag
	A flexible container for bulk goods whose contents weigh 300 kilograms when full
	[91] 300 Kilogram Bulk Bag
46	25 Kilogram Bulk Bag
	A flexible container for bulk goods whose contents weigh 25 kilograms when full
	[91] 25 Kilogram Bulk Bag
47	50 Pound Bag
	A flexible container whose contents weigh 50 pounds when full
	[91] 50 Pound Bag
48	Bulk Car Load
	A fully loaded rail car containing dry bulk loose materials
	[91] Bulk Car Load
4A	Bobbin
	A cylinder or spindle on which yarn or thread is wound
	[91] Bobbin
4B	Cap
	Designates that the cap of a container is manufactured to dimensions that enable it to be used as a measuring device when mixing the contents of the container with another substance
	[91] Cap
4C	Centistokes
	$1 * 10^{-6}$ square meters/second
	[91] Centistokes
4D	Curie
	A unit of radioactivity equal to $3.7 * 10^{10}$ disintegrations per second
	[91] Curie
4E	20-Pack

	Pack containing 20 units
	[91] 20-Pack
4F	100-Pack
	Pack containing 100 units
	[91] 100-Pack
4G	Microliter
	1/1,000,000 liter
	[91] Microliter
4H	Micrometer
	1/1,000,000 meter
	[91] Micrometer
4I	Meters Per Second
	Measure of linear speed
	[91] Meters Per Second
4J	Meters Per Second Per Second
	Measure of acceleration
	[91] Meters Per Second Per Second
4K	Milliamperes
	Unit of electrical current
	[91] Milliamperes
4L	Megabyte
	Unit of computer storage capacity
	[91] Megabyte
4M	Milligrams Per Hour
	Unit of flow
	[91] Milligrams Per Hour
4N	Megabecquerel
	Unit of radiation
	[91] Megabecquerel
4O	Microfarad
	Unit of electrical capacitance
	[91] Microfarad
4P	Newtons Per Meter
	Unit of measure for surface tension
	[91] Newtons Per Meter
4Q	Ounce Inch
	Unit of torque
	[91] Ounce Inch
4R	Ounce Foot
	Unit of torque
	[91] Ounce Foot
4S	Pascal
	Unit of pressure
	[91] Pascal
4T	Picofarad
	Unit of electrical capacitance
	[91] Picofarad
4U	Pounds Per Hour
	Rate of flow
	[91] Pounds Per Hour
4V	Cubic Meter Per Hour

	Rate of flow
	[91] Cubic Meter Per Hour
4W	Ton Per Hour
	Rate of flow
	[91] Ton Per Hour
4X	Kiloliter Per Hour
	Rate of flow
	[91] Kiloliter Per Hour
50	Actual Kilograms
	[91] Actual Kilograms
51	Actual Tonnes
	[91] Actual Tonnes
52	Credits
	[91] Credits
53	Theoretical Kilograms
	[91] Theoretical Kilograms
54	Theoretical Tonnes
	[91] Theoretical Tonnes
56	Sitas
	[91] Sitas
57	Mesh
	Linear measurement of the open area of screen, net, weave, or similarly constructed item
	[91] Mesh
58	Net Kilograms
	[91] Net Kilograms
59	Parts Per Million
	[91] Parts Per Million
5A	Barrels per Minute
	The number of 42 gallon barrels pumped or mixed in a time period of one minute
	[91] Barrels per Minute
5B	Batch
	The quantity of material produced at one operation
	[91] Batch
5C	Gallons per Thousand
	The number of gallons of a component material used per one thousand gallons of a process made
	[91] Gallons per Thousand
5E	MMSCF/Day
	One million standard cubic feet of gas per day
	[91] MMSCF/Day
5F	Pounds per Thousand
	The number of pounds of solid material used in each 1000 gallons of fluid, mixed or pumped
	[91] Pounds per Thousand
5G	Pump
	The number of pumps used on a specific job
	[91] Pump
5H	Stage
	A period or step in a process or development
	[91] Stage

5I	Standard Cubic Foot One cubic foot of gas measured at a fixed temperature and pressure; the value used for the temperature and pressure varies depending on the type of gas being measured [91] Standard Cubic Foot
5J	Hydraulic Horse Power A calculated measure of Horse Power using the formula rate (barrels per minute) times pressure (pounds per square inch) divided by 40.8 [91] Hydraulic Horse Power
5K	Count per Minute [91] Count per Minute
5P	Seismic Level [91] Seismic Level
5Q	Seismic Line [91] Seismic Line
60	Percent Weight [91] Percent Weight
61	Parts Per Billion [91] Parts Per Billion
62	Percent Per 1000 Hours [91] Percent Per 1000 Hours
63	Failure Rate In Time [91] Failure Rate In Time
64	Pounds Per Square Inch Gauge [91] Pounds Per Square Inch Gauge
65	Coulomb Unit of charge [91] Coulomb
66	Oersteds [91] Oersteds
67	Siemens Unit of admittance [91] Siemens
68	Ampere [91] Ampere
69	Test Specific Scale [91] Test Specific Scale
70	Volt [91] Volt
71	Volt-Ampere Per Pound [91] Volt-Ampere Per Pound
72	Watts Per Pound [91] Watts Per Pound
73	Ampere Turn Per Centimeter [91] Ampere Turn Per Centimeter
74	Milli Pascals [91] Milli Pascals
76	Gauss [91] Gauss
77	Mil [91] Mil

78	Kilogauss
	[91] Kilogauss
79	Electron Volt
	[91] Electron Volt
80	Pounds Per Square Inch Absolute
	[91] Pounds Per Square Inch Absolute
81	Henry
	Unit of inductance
	[91] Henry
82	Ohm
	Unit of resistance
	[91] Ohm
83	Farad
	Unit of capacitance
	[91] Farad
84	Kilo Pounds Per Square Inch (KSI)
	[91] Kilo Pounds Per Square Inch (KSI)
85	Foot Pounds
	[91] Foot Pounds
86	Joules
	[91] Joules
87	Pounds per Cubic Foot
	[91] Pounds per Cubic Foot
89	Poise
	[91] Poise
8C	Cord
	[91] Cord
8D	Duty
	[91] Duty
8P	Project
	[91] Project
8R	Program
	[91] Program
8S	Session
	[91] Session
8U	Square Kilometer
	[91] Square Kilometer
90	Saybold Universal Second
	A measure of kinematic viscosity, usually of oil
	[91] Saybold Universal Second
91	Stokes
	[91] Stokes
92	Calories per Cubic Centimeter
	[91] Calories per Cubic Centimeter
93	Calories per Gram
	[91] Calories per Gram
94	Curl Units
	[91] Curl Units
95	20,000 Gallon Tankcar
	A 20,000 gallon liquid capacity enclosed rail car
	[91] 20,000 Gallon Tankcar

96	10,000 Gallon Tankcar A 10,000 gallon liquid capacity enclosed rail car [91] 10,000 Gallon Tankcar
97	10 Kilogram Drum A cylindrical container whose contents weigh 10 kilograms when full [91] 10 Kilogram Drum
98	15 Kilogram Drum A cylindrical container whose contents weigh 15 kilograms when full [91] 15 Kilogram Drum
99	Watt [91] Watt
A8	Dollars per Hours A rate expressed in dollars per hour to be charged for each hour worked [91] Dollars per Hours
AA	Ball [91] Ball
AB	Bulk Pack [91] Bulk Pack
AC	Acre [91] Acre
AD	Bytes A computer string of data that consists of a quantity of bits, treated as a unit; a bit is a binary digit [91] Bytes
AE	Amperes per Meter [91] Amperes per Meter
AF	Centigram A unit of metric weight equal to 0.01 gram or 0.000035 ounce [91] Centigram
AG	Angstrom [91] Angstrom
AH	Additional Minutes The minutes, usually associated with usage-sensitive pricing of telecommunication services, which are above the minutes allowed for that particular service [91] Additional Minutes
AI	Average Minutes Per Call The total number of minutes of a category of calls divided by the total number of calls within the category for telephone services calculated to provide call summary details [91] Average Minutes Per Call
AJ	Cop A cylindrical or conical mass of thread, yarn, or cable on a quill or a tube [91] Cop
AK	Fathom A unit of length equal to 6.0 feet or 1.829 meters [91] Fathom
AL	Access Lines

	Number of lines subject to Carrier Access Line Charges
	[91] Access Lines
AM	Ampoule
	[91] Ampoule
AN	Minutes or Messages
	Number of minutes or messages contracted or used in telephone services where either the number of minutes or messages are the unit of measure for the calculation of charges
	[91] Minutes or Messages
AO	Ampere-turn
	[91] Ampere-turn
AP	Aluminum Pounds Only
	[91] Aluminum Pounds Only
AQ	Anti-hemophilic Factor (AHF) Units
	Intravenous administering of blood products that have been tested for potency against the U.S. medical unit of measure
	[91] Anti-hemophilic Factor (AHF) Units
AR	Suppository
	[91] Suppository
AS	Assortment
	[91] Assortment
AT	Atmosphere
	Equal to the pressure of the air at sea level, or approximately 14.7 pounds per square inch
	[91] Atmosphere
AU	Ocular Insert System
	A drug delivery system which is placed in the lower conjunctival fornix from which the drug diffuses through a membrane at a constant rate over a seven-day period
	[91] Ocular Insert System
AV	Capsule
	A compact metallic or plastic container for liquids or solids
	[91] Capsule
AW	Powder-Filled Vials
	Standard unit of intravenous blood product that has to be reconstituted with a liquid before being administered
	[91] Powder-Filled Vials
AX	Twenty
	20 each of an item of supply
	[91] Twenty
AY	Assembly
	[91] Assembly
AZ	British Thermal Units (BTUs) per Pound
	[91] British Thermal Units (BTUs) per Pound
B0	British Thermal Units (BTUs) per Cubic Foot
	[91] British Thermal Units (BTUs) per Cubic Foot
B1	Barrels per Day
	[91] Barrels per Day
B2	Bunks
	[91] Bunks
B3	Batting Pound

	[91] Batting Pound
B4	Barrel, Imperial
	[91] Barrel, Imperial
B5	Billet
	[91] Billet
B6	Bun
	[91] Bun
B7	Cycles
	[91] Cycles
B8	Board
	[91] Board
B9	Batt
	[91] Batt
BA	Bale
	[91] Bale
BB	Base Box
	[91] Base Box
BC	Bucket
	[91] Bucket
BD	Bundle
	[91] Bundle
BE	Beam
	[91] Beam
BF	Board Feet
	[91] Board Feet
BG	Bag
	[91] Bag
BH	Brush
	[91] Brush
BI	Bar
	A centimeter-gram-second unit of pressure, equal to one million dynes per square centimeter
	[91] Bar
BJ	Band
	[91] Band
BK	Book
	[91] Book
BL	Block
	[91] Block
BM	Bolt
	[91] Bolt
BN	Bulk
	[91] Bulk
BO	Bottle
	[91] Bottle
BP	100 Board Feet
	[91] 100 Board Feet
BQ	Brake horse power
	The horsepower made available by an engine or turbine for driving machinery other than itself
	[91] Brake horse power
BR	Barrel

	[91] Barrel
BS	Basket
	[91] Basket
BT	Belt
	[91] Belt
BU	Bushel
	32 dry quarts
	[91] Bushel
BV	Bushel, Dry Imperial
	[91] Bushel, Dry Imperial
BW	Base Weight
	[91] Base Weight
BX	Box
	[91] Box
BY	British Thermal Unit (BTU)
	[91] British Thermal Unit (BTU)
BZ	Million BTU's
	[91] Million BTU's
C0	Calls
	Number of calls handled
	[91] Calls
C1	Composite Product Pounds (Total Weight)
	[91] Composite Product Pounds (Total Weight)
C2	Carset
	[91] Carset
C3	Centiliter
	[91] Centiliter
C4	Carload
	[91] Carload
C5	Cost
	[91] Cost
C6	Cell
	[91] Cell
C7	Centipoise (CPS)
	[91] Centipoise (CPS)
C8	Cubic Decimeter
	[91] Cubic Decimeter
C9	Coil Group
	[91] Coil Group
CA	Case
	[91] Case
CB	Carboy
	[91] Carboy
CC	Cubic Centimeter
	[91] Cubic Centimeter
CD	Carat
	[91] Carat
CE	Centigrade, Celsius
	[91] Centigrade, Celsius
CF	Cubic Feet
	[91] Cubic Feet

CG	Card
	[91] Card
CH	Container
	[91] Container
CI	Cubic Inches
	[91] Cubic Inches
CJ	Cone
	[91] Cone
CK	Connector
	[91] Connector
CL	Cylinder
	[91] Cylinder
CM	Centimeter
	[91] Centimeter
CN	Can
	[91] Can
CO	Cubic Meters (Net)
	[91] Cubic Meters (Net)
CP	Crate
	[91] Crate
CQ	Cartridge
	[91] Cartridge
CR	Cubic Meter
	[91] Cubic Meter
CS	Cassette
	[91] Cassette
CT	Carton
	[91] Carton
CU	Cup
	[91] Cup
CV	Cover
	[91] Cover
CW	Hundred Pounds (CWT)
	[91] Hundred Pounds (CWT)
CX	Coil
	[91] Coil
CY	Cubic Yard
	[91] Cubic Yard
CZ	Combo
	[91] Combo
D2	Shares
	[91] Shares
D3	Square Decimeter
	Metric unit of area
	[91] Square Decimeter
D5	Kilogram Per Square Centimeter
	Unit of pressure
	[91] Kilogram Per Square Centimeter
D8	Draize Score
	[91] Draize Score
D9	Dyne per Square Centimeter

	[91] Dyne per Square Centimeter
DA	Days
	[91] Days
DB	Dry Pounds
	[91] Dry Pounds
DC	Disk (Disc)
	[91] Disk (Disc)
DD	Degree
	[91] Degree
DE	Deal
	[91] Deal
DF	Dram
	[91] Dram
DG	Decigram
	[91] Decigram
DH	Miles
	[91] Miles
DI	Dispenser
	[91] Dispenser
DJ	Decagram
	[91] Decagram
DK	Kilometers
	[91] Kilometers
DL	Deciliter
	[91] Deciliter
DM	Decimeter
	[91] Decimeter
DN	Deci Newton-Meter
	One tenth of a Newton-meter, representing torque. A Newton-meter represents force times distance
	[91] Deci Newton-Meter
DO	Dollars, U.S.
	[91] Dollars, U.S.
DP	Dozen Pair
	[91] Dozen Pair
DQ	Data Records
	Number of Data Records handled
	[91] Data Records
DR	Drum
	[91] Drum
DS	Display
	[91] Display
DT	Dry Ton
	[91] Dry Ton
DU	Dyne
	The unit of force in the cgs system equal to the force that would give a free mass of one gram an acceleration of one centimeter per second
	[91] Dyne
DW	Calendar Days
	[91] Calendar Days
DX	Dynes per Centimeter

	Unit of surface tension
	[91] Dynes per Centimeter
DY	Directory Books
	Number of directory books delivered to customer
	[91] Directory Books
DZ	Dozen
	[91] Dozen
E1	Hectometer
	A unit of metric length equal to 109.36 yards or 0.062 mile
	[91] Hectometer
E3	Inches, Fraction--Average
	[91] Inches, Fraction--Average
E4	Inches, Fraction--Minimum
	[91] Inches, Fraction--Minimum
E5	Inches, Fraction--Actual
	[91] Inches, Fraction--Actual
E7	Inches, Decimal--Average
	[91] Inches, Decimal--Average
E8	Inches, Decimal--Actual
	[91] Inches, Decimal--Actual
E9	English, (Feet, Inches)
	[91] English, (Feet, Inches)
EA	Each
	[91] Each
EB	Electronic Mail Boxes
	Number of Electronic Mail Boxes established for an account
	[91] Electronic Mail Boxes
EC	Each per Month
	[91] Each per Month
ED	Inches, Decimal--Nominal
	[91] Inches, Decimal--Nominal
EE	Employees
	[91] Employees
EF	Inches, Fraction-Nominal
	[91] Inches, Fraction-Nominal
EG	Double-time Hours
	[91] Double-time Hours
EH	Knots
	[91] Knots
EJ	Locations
	[91] Locations
EM	Inches, Decimal-Minimum
	[91] Inches, Decimal-Minimum
EP	Eleven pack
	[91] Eleven pack
EQ	Equivalent Gallons
	Represents number of gallons that syrup and concentrate make of product
	[91] Equivalent Gallons
EV	Envelope

	[91] Envelope
EX	Feet, Inches and Fraction
	[91] Feet, Inches and Fraction
EY	Feet, Inches and Decimal
	[91] Feet, Inches and Decimal
EZ	Feet and Decimal
	[91] Feet and Decimal
F1	Thousand Cubic Feet Per Day
	The unit of measure of the rate of production of a gas
	[91] Thousand Cubic Feet Per Day
F2	International Unit
	A unit accepted by an international agency; potency of a drug/vitamin based on a specific weight of that drug/vitamin
	[91] International Unit
F3	Equivalent
	Weight of a substance which combines with or replaces one gram atomic weight of hydrogen
	[91] Equivalent
F4	Minim
	An apothecary's fluid measure; 60 minims = 1 fluid gram (approx. 5 cc)
	[91] Minim
F5	MOL
	Gram-molecular weight of a gas
	[91] MOL
F6	Price Per Share
	[91] Price Per Share
F9	Fibers per Cubic Centimeter of Air
	[91] Fibers per Cubic Centimeter of Air
FA	Fahrenheit
	[91] Fahrenheit
FB	Fields
	[91] Fields
FC	1000 Cubic Feet
	[91] 1000 Cubic Feet
FD	Million Particles per Cubic Foot
	[91] Million Particles per Cubic Foot
FE	Track Foot
	Represents rails, all ties and fittings, and subgrade
	[91] Track Foot
FF	Hundred Cubic Meters
	A unit of metric volume equal to 131.0 cubic yards
	[91] Hundred Cubic Meters
FG	Transdermal Patch
	A drug delivery system which is placed on the skin and releases a drug at a constant rate through the skin
	[91] Transdermal Patch
FH	Micromolar
	One millionth of a mole; a mole is a standard chemical unit
	[91] Micromolar
FJ	Sizing Factor

	[91] Sizing Factor
FK	Fibers
	[91] Fibers
FL	Flake Ton
	[91] Flake Ton
FM	Million Cubic Feet
	[91] Million Cubic Feet
FO	Fluid Ounce
	[91] Fluid Ounce
FP	Pounds per Sq. Ft.
	[91] Pounds per Sq. Ft.
FR	Feet Per Minute
	Measure of linear speed
	[91] Feet Per Minute
FS	Feet Per Second
	Measure of linear speed
	[91] Feet Per Second
FT	Foot
	[91] Foot
FZ	Fluid Ounce (Imperial)
	A liquid unit of measure equal to 1/20 (.05) pint (Imperial), 28.416 cubic centimeters, or 28.416 milliliters
	[91] Fluid Ounce (Imperial)
G2	U.S. Gallons Per Minute
	Rate of flow
	[91] U.S. Gallons Per Minute
G3	Imperial Gallons Per Minute
	Rate of flow
	[91] Imperial Gallons Per Minute
G4	Gigabecquerel
	Unit of radiation equal to 27 millicuries
	[91] Gigabecquerel
G5	Gill (Imperial)
	A unit of liquid or dry measure equal to 5 fluid ounces, 8.669 cubic inches, or 142.066 cubic centimeters
	[91] Gill (Imperial)
G7	Microfiche Sheet
	A film that contains photographed documents greatly reduced in size
	[91] Microfiche Sheet
GA	Gallon
	[91] Gallon
GB	Gallons/Day
	[91] Gallons/Day
GC	Grams per 100 Grams
	[91] Grams per 100 Grams
GD	Gross Barrels
	[91] Gross Barrels
GE	Pounds per Gallon
	[91] Pounds per Gallon
GF	Grams per 100 Centimeters
	[91] Grams per 100 Centimeters

GG	Great Gross (Dozen Gross) [91] Great Gross (Dozen Gross)
GH	Half Gallon [91] Half Gallon
GI	Imperial Gallons [91] Imperial Gallons
GJ	Grams per Milliliter [91] Grams per Milliliter
GK	Grams per Kilogram [91] Grams per Kilogram
GL	Grams per Liter [91] Grams per Liter
GM	Grams per Sq. Meter [91] Grams per Sq. Meter
GN	Gross Gallons [91] Gross Gallons
GO	Milligrams per Square Meter [91] Milligrams per Square Meter
GP	Milligrams per Cubic Meter [91] Milligrams per Cubic Meter
GQ	Micrograms per Cubic Meter [91] Micrograms per Cubic Meter
GR	Gram [91] Gram
GS	Gross [91] Gross
GT	Gross Kilogram Represents kilograms of product and package or container [91] Gross Kilogram
GU	Gauss per Oersteds [91] Gauss per Oersteds
GV	Gigajoules One billion joules; standard method of expressing absolute heating value of natural gas regardless of volume in the Canadian oil and gas industries [91] Gigajoules
GW	Gallons Per Thousand Cubic Feet [91] Gallons Per Thousand Cubic Feet
GX	Grain A small unit of weight equal to 1/480 (.002083) troy ounce, or 0.0648 gram [91] Grain
GY	Gross Yard [91] Gross Yard
GZ	Gage Systems [91] Gage Systems
H1	Half Pages - Electronic Number of electronic half pages of data delivered [91] Half Pages - Electronic
H2	Half Liter Unit of capacity equal to 1/2 liter [91] Half Liter

H4	Hectoliter Metric measure for 100 liters [91] Hectoliter
HA	Hank One hundred feet of rope [91] Hank
HB	Hundred Boxes [91] Hundred Boxes
HC	Hundred Count [91] Hundred Count
HD	Half Dozen [91] Half Dozen
HE	Hundredth of a Carat [91] Hundredth of a Carat
HF	Hundred Feet [91] Hundred Feet
HG	Hectogram [91] Hectogram
HH	Hundred Cubic Feet [91] Hundred Cubic Feet
HI	Hundred Sheets [91] Hundred Sheets
HJ	Horsepower [91] Horsepower
HK	Hundred Kilograms [91] Hundred Kilograms
HL	Hundred Feet - Linear [91] Hundred Feet - Linear
HM	Miles Per Hour [91] Miles Per Hour
HN	Millimeters of Mercury [91] Millimeters of Mercury
HO	Hundred Troy Ounces [91] Hundred Troy Ounces
HP	Millimeter H2O Unit of pressure [91] Millimeter H2O
HQ	Hectare [91] Hectare
HR	Hours [91] Hours
HS	Hundred Square Feet [91] Hundred Square Feet
HT	Half Hour [91] Half Hour
HU	Hundred [91] Hundred
HV	Hundred Weight (Short) [91] Hundred Weight (Short)
HW	Hundred Weight (Long) [91] Hundred Weight (Long)

HY	Hundred Yards [91] Hundred Yards
HZ	Hertz [91] Hertz
IA	Inch Pound Unit of torque [91] Inch Pound
IB	Inches Per Second (Vibration Velocity) Measure of vibration velocity [91] Inches Per Second (Vibration Velocity)
IC	Counts per Inch [91] Counts per Inch
IE	Person [91] Person
IF	Inches of Water The maximum differential pressure for which a given meter will measure accurately and is expressed in inches of water [91] Inches of Water
IH	Inhaler Metered-dose pressurized method of getting medication into the lungs or nasal passages [91] Inhaler
II	Column-Inches A unit of area one column wide and one inch high [91] Column-Inches
IK	Peaks per Inch (PPI) [91] Peaks per Inch (PPI)
IL	Inches per Minute [91] Inches per Minute
IM	Impressions [91] Impressions
IN	Inch [91] Inch
IP	Insurance Policy An individual insurance contract [91] Insurance Policy
IT	Counts per Centimeter [91] Counts per Centimeter
IU	Inches Per Second (Linear Speed) Measure of linear speed [91] Inches Per Second (Linear Speed)
IV	Inches Per Second Per Second (Acceleration) Measure of acceleration [91] Inches Per Second Per Second (Acceleration)
IW	Inches Per Second Per Second (Vibration Acceleration) Measure of vibration acceleration [91] Inches Per Second Per Second (Vibration Acceleration)
J2	Joule Per Kilogram Measure of specific energy [91] Joule Per Kilogram

JA	Job [91] Job
JB	Jumbo [91] Jumbo
JE	Joule Per Kelvin Measure of heat capacity [91] Joule Per Kelvin
JG	Joule per Gram Joule is unit of energy and gram is unit of mass [91] Joule per Gram
JK	Mega Joule per Kilogram "Mega" means "millions" and "kilo" means "thousands" [91] Mega Joule per Kilogram
JM	Megajoule/Cubic Meter A megajoule is one million joules; conventional measurements for expressing the heating value available in a given volume of gas [91] Megajoule/Cubic Meter
JO	Joint [91] Joint
JR	Jar [91] Jar
JU	Jug [91] Jug
K1	Kilowatt Demand Represents potential power load measured at predetermined intervals [91] Kilowatt Demand
K2	Kilovolt Amperes Reactive Demand Reactive power that must be supplied for specific types of customer's equipment; billable when kilowatt demand usage meets or exceeds a defined parameter [91] Kilovolt Amperes Reactive Demand
K3	Kilovolt Amperes Reactive Hour Represents actual electricity equivalent to kilowatt hours; billable when usage meets or exceeds defined parameters [91] Kilovolt Amperes Reactive Hour
K4	Kilovolt Amperes Measure of electrical power [91] Kilovolt Amperes
K5	Kilovolt Amperes Reactive Measure of electrical power [91] Kilovolt Amperes Reactive
K6	Kiloliter One thousand liters [91] Kiloliter
K7	Kilowatt Measure of electrical power [91] Kilowatt
K9	Kilograms per Millimeter Squared (KG/MM2) [91] Kilograms per Millimeter Squared (KG/MM2)
KA	Cake [91] Cake

KB	Kilocharacters Kilocharacters of data transmitted [91] Kilocharacters
KC	Kilograms per Cubic Meter [91] Kilograms per Cubic Meter
KD	Kilograms Decimal [91] Kilograms Decimal
KE	Keg A unit of weight equal to 100 pounds, used for nails [91] Keg
KF	Kilopackets Kilopackets of data transmitted [91] Kilopackets
KG	Kilogram [91] Kilogram
KH	Kilowatt Hour [91] Kilowatt Hour
KI	Kilograms/Millimeter Width [91] Kilograms/Millimeter Width
KJ	Kilosegments Kilosegments of data transmitted [91] Kilosegments
KK	100 Kilograms [91] 100 Kilograms
KL	Kilograms/Meter [91] Kilograms/Meter
KM	Kilograms per Square Meter, Kilograms, Decimal [91] Kilograms per Square Meter, Kilograms, Decimal
KO	Millequivalence Caustic Potash per Gram of Product Acid number and saponification number test results have a unit of measure of Millequivalence KOH per Gram [91] Millequivalence Caustic Potash per Gram of Product
KP	Kilometers Per Hour [91] Kilometers Per Hour
KQ	Kilopascal Represents pressure [91] Kilopascal
KR	Kiloroentgen Measure of radiation [91] Kiloroentgen
KS	1000 Pounds per Square Inch [91] 1000 Pounds per Square Inch
KT	Kit [91] Kit
KU	Task [91] Task
KV	Kelvin [91] Kelvin
KW	Kilograms per Millimeter [91] Kilograms per Millimeter
KX	Milliliters per Kilogram

	[91] Milliliters per Kilogram
L2	Liters Per Minute Measure of the rate of flow
	[91] Liters Per Minute
LA	Pounds Per Cubic Inch
	[91] Pounds Per Cubic Inch
LB	Pound
	[91] Pound
LC	Linear Centimeter
	[91] Linear Centimeter
LE	Lite
	[91] Lite
LF	Linear Foot
	[91] Linear Foot
LG	Long Ton 2240 pounds as used in the U.K.
	[91] Long Ton
LH	Labor Hours
	[91] Labor Hours
LI	Linear Inch
	[91] Linear Inch
LJ	Large Spray
	[91] Large Spray
LK	Link
	[91] Link
LL	Lifetime A duration ending with the death of the individual
	[91] Lifetime
LM	Linear Meter
	[91] Linear Meter
LN	Length
	[91] Length
LO	Lot
	[91] Lot
LP	Liquid Pounds
	[91] Liquid Pounds
LQ	Liters Per Day Measure of liquid flow over a given time period
	[91] Liters Per Day
LR	Layer(s)
	[91] Layer(s)
LS	Lump Sum
	[91] Lump Sum
LT	Liter
	[91] Liter
LX	Linear Yards Per Pound
	[91] Linear Yards Per Pound
LY	Linear Yard
	[91] Linear Yard
M0	Magnetic Tapes Number of Magnetic Tapes delivered with data

	[91] Magnetic Tapes
M1	Milligrams per Liter
	[91] Milligrams per Liter
M2	Millimeter-Actual
	[91] Millimeter-Actual
M3	Mat
	[91] Mat
M4	Monetary Value
	[91] Monetary Value
M5	Microcurie
	[91] Microcurie
M6	Millibar
	[91] Millibar
M7	Micro Inch
	[91] Micro Inch
M8	Mega Pascals
	[91] Mega Pascals
M9	Million British Thermal Units per One Thousand Cubic Feet
	Represents conversion from a volume of gas to the heat value of the gas
	[91] Million British Thermal Units per One Thousand Cubic Feet
MA	Machine/Unit
	[91] Machine/Unit
MB	Millimeter-Nominal
	[91] Millimeter-Nominal
MC	Microgram
	[91] Microgram
MD	Air Dry Metric Ton
	[91] Air Dry Metric Ton
ME	Milligram
	[91] Milligram
MF	Milligram per Sq. Ft. per Side
	[91] Milligram per Sq. Ft. per Side
MG	Metric Gross Ton
	[91] Metric Gross Ton
MH	Microns (Micrometers)
	1/1,000,000 meter
	[91] Microns (Micrometers)
MI	Metric
	[91] Metric
MJ	Minutes
	[91] Minutes
MK	Milligrams Per Square Inch
	[91] Milligrams Per Square Inch
ML	Milliliter
	[91] Milliliter
MM	Millimeter
	[91] Millimeter
MN	Metric Net Ton
	[91] Metric Net Ton

MO	Months [91] Months
MP	Metric Ton [91] Metric Ton
MQ	1000 Meters [91] 1000 Meters
MR	Meter [91] Meter
MS	Square Millimeter [91] Square Millimeter
MT	Metric Long Ton [91] Metric Long Ton
MU	Millicurie [91] Millicurie
MV	Number of Mults [91] Number of Mults
MW	Metric Ton Kilograms [91] Metric Ton Kilograms
MX	Mixed [91] Mixed
MY	Millimeter-Average [91] Millimeter-Average
MZ	Millimeter-minimum [91] Millimeter-minimum
N1	Pen Calories Daily calories prescribed to be taken for parenteral/enteral therapy [91] Pen Calories
N2	Number of Lines [91] Number of Lines
N3	Print Point A print point is approximately .0138" [91] Print Point
N4	Pen Grams (Protein) Grams of amino acids prescribed to be taken for parenteral/enteral therapy [91] Pen Grams (Protein)
N6	Megahertz One million cycles per second [91] Megahertz
N7	Parts [91] Parts
N9	Cartridge Needle Used with auto-injector units only, a disposable, filled cartridge that includes a needle [91] Cartridge Needle
NA	Milligrams per Kilogram [91] Milligrams per Kilogram
NB	Barge [91] Barge
NC	Car [91] Car

ND	Net Barrels [91] Net Barrels
NE	Net Liters [91] Net Liters
NF	Messages Number of Messages transmitted, or delivered [91] Messages
NG	Net Gallons [91] Net Gallons
NH	Message Hours Number of hours used, calculated at some rate basis such as Minutes/message carried [91] Message Hours
NI	Net Imperial Gallons [91] Net Imperial Gallons
NJ	Number of Screens Number of data screens handled, or transmitted [91] Number of Screens
NL	Load [91] Load
NM	Nautical Mile [91] Nautical Mile
NN	Train [91] Train
NQ	Mho The basic unit of electrical conductivity, having a unity value when one ampere of current flows through a conductor to which a one volt difference in electrical potential is applied [91] Mho
NR	Micro Mho The typical unit of electrical conductivity measurement - one millionth of an Mho [91] Micro Mho
NS	Short Ton Two thousand pounds [91] Short Ton
NT	Trailer [91] Trailer
NU	Newton-Meter Unit of energy or torque [91] Newton-Meter
NV	Vehicle [91] Vehicle
NW	Newton Represents force in the International Metric System (SI); equal to the force that produces an acceleration of 1 meter per second on a mass of 1 kilogram [91] Newton
NX	Parts Per Thousand [91] Parts Per Thousand
NY	Pounds Per Air-Dry Metric Ton A measure of chemical addition rate during manufacture

	and product constituent analysis
	[91] Pounds Per Air-Dry Metric Ton
OA	Panel
	[91] Panel
OC	Billboard
	[91] Billboard
ON	Ounces per Square Yard
	[91] Ounces per Square Yard
OP	Two pack
	[91] Two pack
OT	Overtime Hours
	[91] Overtime Hours
OZ	Ounce - Av
	[91] Ounce - Av
P0	Pages - Electronic
	Number of electronic pages of data delivered
	[91] Pages - Electronic
P1	Percent
	[91] Percent
P2	Pounds per Foot
	[91] Pounds per Foot
P3	Three pack
	[91] Three pack
P4	Four-pack
	[91] Four-pack
P5	Five-pack
	[91] Five-pack
P6	Six pack
	[91] Six pack
P7	Seven pack
	[91] Seven pack
P8	Eight-pack
	[91] Eight-pack
P9	Nine pack
	[91] Nine pack
PA	Pail
	[91] Pail
PB	Pair Inches
	[91] Pair Inches
PC	Piece
	[91] Piece
PD	Pad
	[91] Pad
PE	Pounds Equivalent
	[91] Pounds Equivalent
PF	Pallet (Lift)
	[91] Pallet (Lift)
PG	Pounds Gross
	[91] Pounds Gross
PH	Pack (PAK)
	[91] Pack (PAK)

PI	Pitch [91] Pitch
PJ	Pounds, Decimal - Pounds per Square Foot - Pound Gage [91] Pounds, Decimal - Pounds per Square Foot - Pound Gage
PK	Package [91] Package
PL	Pallet/Unit Load [91] Pallet/Unit Load
PM	Pounds-Percentage [91] Pounds-Percentage
PN	Pounds Net [91] Pounds Net
PO	Pounds per Inch of Length [91] Pounds per Inch of Length
PP	Plate [91] Plate
PQ	Pages per Inch [91] Pages per Inch
PR	Pair [91] Pair
PS	Pounds per Sq. Inch [91] Pounds per Sq. Inch
PT	Pint [91] Pint
PU	Mass Pounds [91] Mass Pounds
PV	Half Pint [91] Half Pint
PW	Pounds per Inch of Width [91] Pounds per Inch of Width
PX	Pint, Imperial [91] Pint, Imperial
PY	Peck, Dry U.S. [91] Peck, Dry U.S.
PZ	Peck, Dry Imperial [91] Peck, Dry Imperial
Q1	Quarter (Time) [91] Quarter (Time)
Q2	Pint U.S. Dry Volume equal to 33.6003125 cubic inches [91] Pint U.S. Dry
Q3	Meal A group of food items packaged together for human consumption [91] Meal
Q4	Fifty A unit of issue in which a group of 50 items are consolidated and measured as a single entity [91] Fifty
Q5	Twenty-Five A unit of issue in which a group of 25 items are

	consolidated and measured as a single entity [91] Twenty-Five
Q6	Thirty-Six A unit of issue in which a group of 36 items are consolidated and measured as a single entity [91] Thirty-Six
Q7	Twenty-Four A unit of issue in which a group of 24 items are consolidated and measured as a single entity [91] Twenty-Four
QA	Pages - Facsimile Number of FAX pages transmitted [91] Pages - Facsimile
QB	Pages - Hardcopy Number of printed pages delivered [91] Pages - Hardcopy
QC	Channel [91] Channel
QD	Quarter Dozen [91] Quarter Dozen
QE	Photographs [91] Photographs
QH	Quarter Hours Number of 15 minute increments of usage handled [91] Quarter Hours
QK	Quarter Kilogram A unit of metric weight equal to 250 grams [91] Quarter Kilogram
QR	Quire [91] Quire
QS	Quart, Dry U.S. [91] Quart, Dry U.S.
QT	Quart [91] Quart
QU	Quart, Imperial [91] Quart, Imperial
R1	Pica Approximately .166 inches measured from the top of the ascender (the upward stroke in a lowercase letter, such as "t") to the bottom of the descender (the downward stroke in a lowercase letter, such as "p"); twelve points equal one pica; six picas equal approximately one inch (.996) [91] Pica
R2	Becquerel Unit of radiation equal to 3.7×10^{10} of a curie [91] Becquerel
R3	Revolutions Per Minute [91] Revolutions Per Minute
R4	Calorie The amount of heat it takes to raise the temperature of one gram of water one degree Centigrade at a pressure of one atmosphere [91] Calorie

R5	Thousands of Dollars [91] Thousands of Dollars
R6	Millions of Dollars [91] Millions of Dollars
R7	Billions of Dollars [91] Billions of Dollars
R8	Roentgen Equivalent in Man (REM) [91] Roentgen Equivalent in Man (REM)
R9	Thousand Cubic Meters [91] Thousand Cubic Meters
RA	Rack [91] Rack
RB	Radian [91] Radian
RC	Rod (area) - 16.25 Square Yards [91] Rod (area) - 16.25 Square Yards
RD	Rod (length) - 5.5 Yards [91] Rod (length) - 5.5 Yards
RE	Reel [91] Reel
RG	Ring [91] Ring
RH	Running or Operating Hours Measure of accumulated time of machine or piece of equipment has been running [91] Running or Operating Hours
RK	Roll-Metric Measure [91] Roll-Metric Measure
RL	Roll [91] Roll
RM	Ream [91] Ream
RN	Ream-Metric Measure [91] Ream-Metric Measure
RO	Round [91] Round
RP	Pounds per Ream [91] Pounds per Ream
RS	Resets Number of times a transmission is reset due to line drop, interrupt, etc. [91] Resets
RT	Revenue Ton Miles One ton of revenue-generating freight moving one mile [91] Revenue Ton Miles
RU	Run [91] Run
S1	Semester [91] Semester
S2	Trimester [91] Trimester
S3	Square Feet per Second

	[91] Square Feet per Second
S4	Square Meters per Second
	[91] Square Meters per Second
S5	Sixty-fourths of an Inch
	[91] Sixty-fourths of an Inch
S6	Sessions
	Number of interactive sessions handled
	[91] Sessions
S7	Storage Units
	Number of storage increments used
	[91] Storage Units
S8	Standard Advertising Units (SAUs)
	A predefined partition of advertising page consisting of column-inch multiples
	[91] Standard Advertising Units (SAUs)
S9	Slip Sheet
	A cardboard platform used for holding product for storage or transportation
	[91] Slip Sheet
SA	Sandwich
	[91] Sandwich
SB	Square Mile
	[91] Square Mile
SC	Square Centimeter
	[91] Square Centimeter
SD	Solid Pounds
	[91] Solid Pounds
SE	Section
	640 acres or one square mile
	[91] Section
SF	Square Foot
	[91] Square Foot
SG	Segment
	[91] Segment
SH	Sheet
	[91] Sheet
SI	Square Inch
	[91] Square Inch
SJ	Sack
	[91] Sack
SK	Split Tanktruck
	[91] Split Tanktruck
SL	Sleeve
	[91] Sleeve
SM	Square Meter
	[91] Square Meter
SN	Square Rod
	[91] Square Rod
SO	Spool
	[91] Spool
SP	Shelf Package
	[91] Shelf Package

SQ	Square A unit of measure for roofing materials equal to 100 square feet [91] Square
SR	Strip [91] Strip
SS	Sheet-Metric Measure [91] Sheet-Metric Measure
ST	Set [91] Set
SV	Skid [91] Skid
SW	Skein [91] Skein
SX	Shipment [91] Shipment
SY	Square Yard [91] Square Yard
SZ	Syringe Glass or plastic barrels used to administer fluid medication under the skin, into a vein artery, or into a muscle [91] Syringe
T0	Telecommunications Lines in Service Snapshot sample of lines in service [91] Telecommunications Lines in Service
T1	Thousand pounds gross [91] Thousand pounds gross
T2	Thousandths of an Inch [91] Thousandths of an Inch
T3	Thousand Pieces [91] Thousand Pieces
T4	Thousand Bags [91] Thousand Bags
T5	Thousand Casings [91] Thousand Casings
T6	Thousand Gallons [91] Thousand Gallons
T7	Thousand Impressions [91] Thousand Impressions
T8	Thousand Linear Inches [91] Thousand Linear Inches
T9	Thousand Kilowatt Hours [91] Thousand Kilowatt Hours
TA	Tenth Cubic Foot [91] Tenth Cubic Foot
TB	Tube [91] Tube
TC	Truckload [91] Truckload
TD	Therms [91] Therms

TE	Tote [91] Tote
TF	Ten Square Yards [91] Ten Square Yards
TG	Gross Ton [91] Gross Ton
TH	Thousand [91] Thousand
TI	Thousand Square Inches [91] Thousand Square Inches
TJ	Thousand Sq. Centimeters [91] Thousand Sq. Centimeters
TK	Tank [91] Tank
TL	Thousand Feet (Linear) [91] Thousand Feet (Linear)
TM	Thousand Feet (Board) [91] Thousand Feet (Board)
TN	Net Ton (2,000 LB). [91] Net Ton (2,000 LB).
TO	Troy Ounce [91] Troy Ounce
TP	Ten-pack [91] Ten-pack
TQ	Thousand Feet [91] Thousand Feet
TR	Ten Square Feet [91] Ten Square Feet
TS	Thousand Square Feet [91] Thousand Square Feet
TT	Thousand Linear Meters [91] Thousand Linear Meters
TU	Thousand Linear Yards [91] Thousand Linear Yards
TV	Thousand Kilograms [91] Thousand Kilograms
TW	Thousand Sheets [91] Thousand Sheets
TX	Troy Pound [91] Troy Pound
TY	Tray [91] Tray
TZ	Thousand Cubic Feet [91] Thousand Cubic Feet
U1	Treatments [91] Treatments
U2	Tablet A compressed or molded block of solid material; a collection of sheet paper glued together at one edge [91] Tablet
U3	Ten

	10 each of an item of supply
	[91] Ten
U5	Two Hundred Fifty
	250 each of an item of supply
	[91] Two Hundred Fifty
UA	Torr
	Pressure
	[91] Torr
UB	Telecommunications Lines in Service - Average
	Average number of lines in service specific to equal access requirements
	[91] Telecommunications Lines in Service - Average
UC	Telecommunications Ports
	Number of network access ports
	[91] Telecommunications Ports
UD	Tenth Minutes
	Number of 6 second increments of usage
	[91] Tenth Minutes
UE	Tenth Hours
	Number of 6 minute increments of usage
	[91] Tenth Hours
UF	Usage per Telecommunications Line - Average
	[91] Usage per Telecommunications Line - Average
UH	Ten Thousand Yards
	[91] Ten Thousand Yards
UL	Unitless
	Unit of Measure for properties or test results without units of measure
	[91] Unitless
UM	Million Units
	Measure used to indicate large quantities in multiples of one million
	[91] Million Units
UN	Unit
	[91] Unit
UP	Troche
	A flat, round, tablet made of a medicinal substance
	[91] Troche
UQ	Wafer
	A light, thin, crisp, cake
	[91] Wafer
UR	Application
	An action of putting something into material contact
	[91] Application
US	Dosage Form
	[91] Dosage Form
UT	Inhalation
	[91] Inhalation
UU	Lozenge
	[91] Lozenge
UV	Percent Topical Only
	A measure of medication intended only for external use

	[91] Percent Topical Only
UW	Milliequivalent
	[91] Milliequivalent
UX	Dram (Minim)
	[91] Dram (Minim)
UY	Fifty Square Feet
	[91] Fifty Square Feet
UZ	Fifty Count
	[91] Fifty Count
V1	Flat
	A shallow rectangular container frequently used for fruits and vegetables
	[91] Flat
V2	Pouch
	[91] Pouch
VA	Volt-ampere per Kilogram
	[91] Volt-ampere per Kilogram
VC	Five Hundred
	500 each of an item of supply
	[91] Five Hundred
VI	Vial
	[91] Vial
VP	Percent Volume
	[91] Percent Volume
VR	Volt-ampere-reactive
	[91] Volt-ampere-reactive
VS	Visit
	A quantitative measure of the number of visits to a provider by the patient
	[91] Visit
W2	Wet Kilo
	Weight of product plus liquid solution
	[91] Wet Kilo
WA	Watts per Kilogram
	[91] Watts per Kilogram
WB	Wet Pound
	[91] Wet Pound
WD	Work Days
	[91] Work Days
WE	Wet Ton
	[91] Wet Ton
WG	Wine Gallon
	[91] Wine Gallon
WH	Wheel
	[91] Wheel
WI	Weight per Square Inch
	[91] Weight per Square Inch
WK	Week
	[91] Week
WM	Working Months
	[91] Working Months
WP	Pennyweight

	[91] Pennyweight
WR	Wrap
	[91] Wrap
WW	Milliliters of Water
	[91] Milliliters of Water
X1	Chains (Land Survey)
	[91] Chains (Land Survey)
X2	Bunch
	A measure used to identify a group of like items grown or fastened together
	[91] Bunch
X3	Clove
	A measure used to identify a section of a separate bulb
	[91] Clove
X4	Drop
	The smallest quantity of liquid heavy enough to form a spherical mass
	[91] Drop
X5	Head
	A measure used for a rounded, compact mass of leaves, buds or flowers
	[91] Head
X6	Heart
	A measure used to identify the central or innermost physical part
	[91] Heart
X7	Leaf
	A measure used to identify a usually green flattened structure of vascular plants processed for a particular purpose
	[91] Leaf
X8	Loaf
	A shaped mass of food cooked or prepared in one piece
	[91] Loaf
X9	Portion
	A measure used to identify a section or quantity within a larger thing
	[91] Portion
XP	Base Box per Pound
	[91] Base Box per Pound
Y1	Slice
	A measure used to identify a thin broad piece cut from a larger object
	[91] Slice
Y2	Tablespoon
	A measure equal to three teaspoons or a half fluid ounce
	[91] Tablespoon
Y3	Teaspoon
	A measure equal to five milliliters or one third tablespoon
	[91] Teaspoon
Y4	Tub
	A measure used to identify a storage container
	[91] Tub

YD	Yard
	[91] Yard
YL	100 Lineal Yards
	[91] 100 Lineal Yards
YR	Years
	[91] Years
YT	Ten Yards
	[91] Ten Yards
Z1	Lift Van
	[91] Lift Van
Z2	Chest
	[91] Chest
Z3	Cask
	[91] Cask
Z4	Hogshead
	[91] Hogshead
Z5	Lug
	[91] Lug
Z6	Conference Points
	A participant on a conference call
	[91] Conference Points
Z8	Newspaper Agate Line
	[91] Newspaper Agate Line
ZA	Bimonthly
	[91] Bimonthly
ZB	Biweekly
	[91] Biweekly
ZC	Semiannual
	[91] Semiannual
ZP	Page
	[91] Page
ZZ	Mutually Defined
	[91] Mutually Defined

LH107 380 Quantity O R 1/15

Numeric value of quantity

[92] HAZMAT - Quantity

Quantity refers to the amount (i.e., weight in pounds, volume in cubic feet, or other such measurement) of the hazardous material commodity that is to be transported.

ELEMENT CONDITION: If available, data must be sent

X LH108 595 Compartment ID Code O ID 1/1

Refer to 004010 Data Element Dictionary for acceptable code values.

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

[93] HAZMAT - Residue Indicator Code

R Residue Last Contained Description (Tank Car)

[93] Residue Last Contained Description (Tank Car)

Use 'R' to denote The unit being shipped is empty and contains a residue from a prior movement, reference 40 CFR 172.203(e)

LH110 254 Packing Group Code O ID 1/3

Code indicating degree of danger in terms of Roman number I, II or III

[94] 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

X	LH111	1375	Interim Hazardous Material Regulatory Number	O AN 1/5
----------	--------------	-------------	---	-----------------

Segment: **LH2 Hazardous Classification Information**

Position: 490
Loop: 2378 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: [95] LH2 SEGMENT - HAZMAT Classification
 SEGMENT CONDITION: Required for loaded and unloaded HAZMAT shipments.

Data Element Summary

Ref.	Data Element	Name	Attributes
>>	LH201	215 Hazardous Classification	O ID 1/30
		The hazardous classification corresponding to the shipping name of the hazardous commodity [96] HAZMAT - Hazardous Class/Division Identify the Hazard Class or Division prescribed for the material as shown in column 3 of 49 CFR Table 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 segment 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 [97] HAZMAT - Hazard Class Qualifier Repeat the LH2 segment as necessary to identify the primary and each subsidiary (secondary) hazard of the material being shipped. P Primary [97] Primary S Secondary [97] Secondary	
X	LH203	218 Hazardous Placard Notation	O ID 14/40
X	LH204	222 Hazardous Endorsement	O ID 4/25
	LH205	759 Reportable Quantity Code	O ID 2/2
		Code to identify presence of hazardous substance [98] HAZMAT - Reportable Quantity For empty packagings or units containing the residue of a hazardous material, reference 49 CFR 172.203(e). ELEMENT CONDITION: Required if necessary to indicate a Reportable Quantity is present in the shipment. RQ Reportable Quantity [98] Reportable Quantity	
	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	

[99] HAZMAT Flashpoint Temperature Code
 ELEMENT CONDITION: Required if HAZMAT Flashpoint Temperature applies to shipment

CE Centigrade, Celsius
 [99] Centigrade, Celsius
 Use 'CE' to denote Centigrade
 FA Fahrenheit
 [99] Fahrenheit

	LH207	408	Temperature Temperature	X R 1/4
			[100] HAZMAT Flashpoint Temperature ELEMENT CONDITION: Required if HAZMAT Flashpoint Temperature applies to shipment.	
X	LH208	355	Unit or Basis for Measurement Code Refer to 004010 Data Element Dictionary for acceptable code values.	X ID 2/2
X	LH209	408	Temperature	X R 1/4
X	LH210	355	Unit or Basis for Measurement Code Refer to 004010 Data Element Dictionary for acceptable code values.	X ID 2/2
X	LH211	408	Temperature	X R 1/4

Segment: **LH3** Hazardous Material Shipping Name
Position: 500
Loop: 2378 Optional
Level: Detail
Usage: Optional
Max Use: 10
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: [101] LH3 SEGMENT - HAZMAT Name
 SEGMENT CONDITION: Required if the shipment contains hazardous material.

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 [102] HAZMAT Proper Shipping Name From table at 49 CFR 172.101, column 2. Mandatory for all hazardous material shipments. See 49 CFR 172.202 for additional details. Create additional LH3 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 [103] HAZMAT Proper Shipping Name Qualifier C Canadian Shipping Name [103] Canadian Shipping Name D Domestic (United States) Shipping Name [103] Domestic (United States) Shipping Name I International Shipping Name [103] International Shipping Name	
>>	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 [104] N.O.S. Indicator Code NOS N.O.S. Regulatory Requirements Apply [104] N.O.S. Regulatory Requirements Apply	
X	LH304	1073 Yes/No Condition or Response Code	O ID 1/1
		Refer to 004010 Data Element Dictionary for acceptable code values.	

Segment: **LFH** Freeform Hazardous Material Information
Position: 510
Loop: 2378 Optional
Level: Detail
Usage: Optional
Max Use: 20
Purpose: To uniquely identify the variable information required by government regulation covering the transportation of hazardous material shipments
Syntax Notes: 1 If either LFH05 or LFH06 is present, then the other is required.
Semantic Notes: 1 LFH06 indicates activity of the radioactive material.
 2 LFH07 indicates transport index of the radioactive material.
Comments:
Notes: [105] LFH SEGMENT - HAZMAT Remarks
 SEGMENT CONDITION: Use if HAZMAT Remarks are required.

Data Element Summary

<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
M	<u>Element</u> LFH01	<u>808</u> Hazardous Material Shipment Information Qualifier	M ID 3/3
		Qualifier indicating the type of information being passed so that a receiver may format a description of hazardous commodity movements that meets regulatory requirements	
		[106] HAZMAT Additional Basic Description Information Qualifier Contains the hazardous material shipment information qualifier indicating the type of information being passed. If the X12 code definition accompanying an LFH01 code value contains text in quotations, place the part in quotations in LFH02. If the code definition contains no quotations, see the user note in LFH02 for further guidance. If the N.O.S indicator is specified in LH303, use code value 'TEC' in this data segment. Use code value 'ADI' for other information not accounted for in the code list. Enter additional information that must appear in association with the shipment's basic description according to 49 CFR. Use additional occurrences of LFH segment as necessary for each code that applies to the shipment.	
		ADI	Additional Descriptive Information Not Required by Regulation but Desired to Accompany the Movement by the Shipper [106] Additional Descriptive Information Not Required by Regulation but Desired to Accompany the Movement by the Shipper
		DWW	"Dangerous When Wet" Declaration [106] "Dangerous When Wet" Declaration
		HOT	Identifies Products in a Heated Molten State [106] Identifies Products in a Heated Molten State
		HZC	Hazardous Substance Constituents [106] Hazardous Substance Constituents
		LQY	"Limited Quantity" Declaration [106] "Limited Quantity" Declaration
		MOS	Maximum Operating Speed [106] Maximum Operating Speed
		MPI	Marine Pollutant [106] Marine Pollutant
		PIH	"Poison - Inhalation Hazard" Declaration [106] "Poison - Inhalation Hazard" Declaration
		POI	"Poison" Declaration [106] Poison Declaration
		RAM	Radioactive Material Data

			[106] Radioactive Material Data	
		TEC	Technical or Chemical Group Name	
			[106] Technical or Chemical Group Name	
M	LFH02	809	Hazardous Material Shipment Information	M AN 1/25
			Specific information required by law for hazardous material shipments	
			[107] HAZMAT Additional Basic Description Information	
			Contains specific information about the hazardous material shipment. When applicable, use the descriptive narrative from LFH01.	
			If LFH01='ADI', use this element for any overflow information from LFH01 or 49 CFR except Proper Shipping Name; use LFH03	
			for additional overflow. If LFH01='PIH', enter "Poisonous - Inhalation Hazard, Zone X", where X is the code designated in LFH04.	
			If LFH01='HOT', enter "HOT" [see 49 CFR 172.203(n)]. If LFH01='RAM', enter the appropriate text in quotes as specified by 49 CFR 172.203(d). If LFH01='LQY', enter "Ltd Qty" or "Limited Quantity". If LFH01='HZC', enter "Hazardous substance constituents". If LFH01='MOS', enter "Maximum Operating Speed". If LFH01='MP', enter "Marine Pollutant". For N.O.S. code (LFH01="TEC"), enter the technical or chemical group name in parentheses; place overflow in LFH03; do not close parentheses until end of description is reached.	
	LFH03	809	Hazardous Material Shipment Information	O AN 1/25
			Specific information required by law for hazardous material shipments	
			[108] HAZMAT - Additional Information	
			Use for description overflow from LFH02. Use LFH01, LFH02, and LFH03 as a set and repeat loop as necessary to convey all additional basic description information.	
	LFH04	1023	Hazard Zone Code	O ID 1/1
			Code specifying the Department of Transportation assigned zone designating the Inhalation Toxicity Hazard Zone	
			[109] HAZMAT - Hazard Zone Code	
			Use applicable Hazard Zone Code when LFH01 = 'PIH'. Contains the code specifying the Department of Transportation assigned zone designating the Inhalation Toxicity Hazard Zone.	
		A	Hazard Zone A	
			[109] Hazard Zone A	
		B	Hazard Zone B	
			[109] Hazard Zone B	
		C	Hazard Zone C	
			[109] Hazard Zone C	
		D	Hazard Zone D	
			[109] Hazard Zone D	
X	LFH05	355	Unit or Basis for Measurement Code	X ID 2/2
			Refer to 004010 Data Element Dictionary for acceptable code values.	
X	LFH06	380	Quantity	X R 1/15
X	LFH07	380	Quantity	O R 1/15

Segment: **L3** Total Weight and Charges
Position: 010
Loop:
Level: Summary
Usage: Mandatory
Max Use: 1
Purpose: To specify the total shipment in terms of weight, volume, rates, charges, advances, and prepaid amounts applicable to one or more line items

- Syntax Notes:**
- 1 If either L301 or L302 is present, then the other is required.
 - 2 If either L303 or L304 is present, then the other is required.
 - 3 If either L309 or L310 is present, then the other is required.
 - 4 If 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: [110] L3 SEGMENT - Shipment Totals

Data Element Summary

Ref.	Data	Name	Attributes
<u>Des.</u>	<u>Element</u>		
>>	L301	81 Weight	X R 1/10
		Numeric value of weight	
		[111] Total Shipment Weight	
>>	L302	187 Weight Qualifier	X ID 1/2
		Code defining the type of weight	
		[112] Weight Qualifier	
		G Gross Weight	
		[112] Gross Weight	
X	L303	60 Freight Rate	X R 1/9
X	L304	122 Rate/Value Qualifier	X ID 2/2
		Refer to 004010 Data Element Dictionary for acceptable code values.	
X	L305	58 Charge	O N2 1/12
X	L306	191 Advances	O N2 1/9
X	L307	117 Prepaid Amount	O N2 1/9
X	L308	150 Special Charge or Allowance Code	O ID 3/3
		Refer to 004010 Data Element Dictionary for acceptable code values.	
>>	L309	183 Volume	X R 1/8
		Value of volumetric measure	
		[113] Total Shipment Volume	
>>	L310	184 Volume Unit Qualifier	X ID 1/1
		Code identifying the volume unit	
		[114] Volume Unit Qualifier	
		E Cubic Feet	
		[114] Cubic Feet	
>>	L311	80 Lading Quantity	O N0 1/7
		Number of units (pieces) of the lading commodity	
		[115] Total Shipment Units	
>>	L312	188 Weight Unit Code	O ID 1/1
		Code specifying the weight unit	
		[116] Units Qualifier	
		Qualifies weight value in L301.	
		E Metric Ton	
		[116] Metric Ton	
		G Grams	

	[116] Grams
K	Kilograms
	[116] Kilograms
L	Pounds
	[116] Pounds
M	Measurement Ton
	[116] Measurement Ton
O	Ounces
	[116] Ounces
S	Short Ton
	[116] Short Ton
T	Long Ton
	[116] Long Ton

X	L313	171	Tariff Number	O	AN 1/7
X	L314	74	Declared Value	X	N2 2/12
X	L315	122	Rate/Value Qualifier	X	ID 2/2

Refer to 004010 Data Element Dictionary for acceptable code values.

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: [117] SE SEGMENT - Logistics Service Request Trailer

Data Element Summary

	<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
	<u>Des.</u>	<u>Element</u>		
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	
			[118] Number of Included 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	
			[119] 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.	

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. The application notes section below describes the application specific to this IC element matrix.

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 “Carrier Shipment ID.” This is more concise than using the generic X12 label of “Shipment Identification Number.” 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 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.
- 12 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 GBL Information Request. DoD coordinated the IC elements between transportation activities involved in the DoD electronic data interchange effort.

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		ST SEGMENT - Logistics Service Request Header	M	1	010	M	1							
2		Transaction Set Identifier Code 219 - Logistics Service Request	M ID 3/3	1	010	M	1				ST01	143	M ID	3/3
3		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, some applications use all nine digits where the first five might indicate a group control number and the last four represent the sequence of the transaction set within the functional group. Also, 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
4		B9 SEGMENT - Record Number/Purpose	M	1	020	M	1							
5		Offer Record Number Enter a unique logistics identification number assigned by the originator of this transaction set. Positions 1-5 should contain the vendor's CAGE code; positions 6-9 should contain the date of the request in YJJJ format; positions 10-15 should contain a serial number thereby making the offer record number completely unique within the vendor's logs and amongst the enterprise of vendors.	M AN 15/15	1	020	M	1				B901	127	M AN	1/30
6		Transaction Set Purpose Code 00 - Original <i>Use '00' to denote an original request when a vendor is executing both a shipment and closeout.</i> 13 - Request <i>Use '13' to denote an original request when a vendor is executing a shipment, but has not yet closed out.</i> 20 - Final Transmission <i>Use '20' to denote vendor executing a final closeout of a shipment; this is sent only as a follow-up to a '13' transaction.</i> 28 - Query <i>Use '28' to denote a vendor is only requesting upfront addressing information only.</i>	M ID 2/2	1	020	M	1				B902	353	M ID	2/2
7		B9A SEGMENT - Service Request Code	M	1	030	M	7							

DEPARTMENT OF DEFENSE
TRANSPORTATION EDI CONVENTION

VENDOR SHIPPING INFORMATION REQUEST
219.B.004010

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	
8		Service Request Code FA - Freight Allocation <i>Use 'FA' to denote To satisfy X12 syntax compliance.</i>	M ID 2/2	1	030	M	7				B9A01	1644	M ID 2/2	
9		MS3 SEGMENT - Carrier Information SEGMENT CONDITION: Use this segment when providing carrier information. If B902='00' or '20', this is mandatory; enter the SCAC of the carrier that actually transported the shipment.	C	1	050	O	99						See X12 Standards for explanation of syntax notes. C0503	
10		Standard Carrier Alpha Code Enter the SCAC of the transportation carrier. 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	050	O	99				MS301	140	M ID 2/4	
11		Routing Sequence Code B - Origin/Delivery Carrier (Any Mode)	M ID 1/1	1	050	O	99				MS302	133	M ID 1/2	
12		Transportation Method/Type Code AE - Air Express <i>Use 'AE' to denote All small parcel shipments.</i> LT - Less Than Trailer Load (LTL) <i>Use 'LT' to denote Less than truckload shipment.</i> ZZ - Mutually defined <i>Use 'ZZ' to denote A truckload shipment.</i>	M ID 2/2	1	050	O	99				MS304	91	O ID 1/2	
13		S5 SEGMENT - Pickup Information Report only one S5 loop for each 219B offer record number. Report only one S5 loop for each 219B offer record number.	M	2	010	O	1	99	1	2000			See X12 Standards for explanation of syntax notes. P0304P0506P0708	
14		Sequence Number Enter value one (1).	M N0 1/3	2	010	O	1	99	1	2000	S501	165	M N0 1/3	
15		Reason Code LD - Load	M ID 2/2	2	010	O	1	99	1	2000	S502	163	M ID 2/2	
16		G62 SEGMENT - Ship Date/Time	M	2	020	O	2	99	1	2000			See X12 Standards for explanation of syntax notes. R0103P0102P0304	

DEPARTMENT OF DEFENSE
TRANSPORTATION EDI CONVENTION

VENDOR SHIPPING INFORMATION REQUEST
219.B.004010

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			
17		Ship Date Qualifier 10 - Requested Ship Date/Pick-up Date <i>Use '10' to denote B902 = '13' or '28'.</i> 11 - Shipped on This Date <i>Use '11' to denote B902 = '00' or '20'.</i>	M	ID	2/2	2	020	O	2	99	1	2000	G6201	432	C	ID	2/2
18		Ship Date If B902 = '00' or '20', enter the actual ship date/time in this segment. If B902 = '13' or '28', enter the scheduled pickup date/time.	M	DT	8/8	2	020	O	2	99	1	2000	G6202	373	C	DT	8/8
19		Ship Time Qualifier If G6201 = '10' use code value 'I', 'K', or 'U'. If G6201 = '11' use code value '8'. 8 - Actual Pickup Time I - Earliest Requested Pick Up Time K - Latest Requested Pick Up Time U - Scheduled Pick Up Time	C	ID	1/1	2	020	O	2	99	1	2000	G6203	176	C	ID	1/2
20		Ship Time Format is 'HHMM'	C	TM	4/4	2	020	O	2	99	1	2000	G6204	337	C	TM	4/8
21		Ship Time Code ELEMENT CONDITION: Required if G6204 is present. SOURCE: ISO 8601 available from American National Standards Institute LT - Local Time UT - Universal Time Coordinate	C	ID	2/2	2	020	O	2	99	1	2000	G6205	623	O	ID	2/2
22		N1 SEGMENT - Origin (SF) Data	M			2	050	O	1	1	2	2100	See X12 Standards for explanation of syntax notes. R0203P0304				
23		Origin Name Qualifier SF - Ship From	M	ID	2/2	2	050	O	1	1	2	2100	N101	98	M	ID	2/3
24		Origin Name	C	AN	1/60	2	050	O	1	1	2	2100	N102	93	C	AN	1/60

DEPARTMENT OF DEFENSE
TRANSPORTATION EDI CONVENTION

VENDOR SHIPPING INFORMATION REQUEST
219.B.004010

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			
25		DoDAAC/CAGE Qualifier 10 - Department of Defense Activity Address Code (DODAAC) 33 - Commercial and Government Entity (CAGE)	M	ID	2/2	2	050	O	1	1	2	2100	N103	66	C	ID	1/2
26		Origin DoDAAC/CAGE	M	AN	4/6	2	050	O	1	1	2	2100	N104	67	C	AN	2/80
27		N2 SEGMENT - Additional Origin Name SEGMENT CONDITION: Use if Additional Origin Name applies.	C			2	060	O	1	1	2	2100					
28		Additional Origin Name	M	AN	1/60	2	060	O	1	1	2	2100	N201	93	M	AN	1/60
29		N3 SEGMENT - Origin (SF) Street Address	M			2	070	O	2	1	2	2100					
30		Origin Street Address	M	AN	1/55	2	070	O	2	1	2	2100	N301	166	M	AN	1/55
31		N4 SEGMENT - Origin (SF) City Name, State and ZIP Codes	M			2	080	O	1	1	2	2100					
																	See X12 Standards for explanation of syntax notes. C0605
32		Origin City Name	M	AN	2/30	2	080	O	1	1	2	2100	N401	19	O	AN	2/30
33		Origin State Code SOURCE: National Zip Code and Post Office Directory available from U.S. Postal Service National Information Data Center	M	ID	2/2	2	080	O	1	1	2	2100	N402	156	O	ID	2/2
34		Origin ZIP Code 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	M	ID	5/9	2	080	O	1	1	2	2100	N403	116	O	ID	3/15
35		LX SEGMENT - Freight Piece Loop Provide one LX loop for each piece of freight. If shipping multiple pieces under a single transportation control number (TCN), use a separate LX loop for each piece, but use the same TCN.	M			2	200	O	1	999	2	2300					
36		Assigned Loop Number Begin with the value one (1) and increment by one for each shipment unit loop.	M	N0	1/6	2	200	O	1	999	2	2300	LX01	554	M	N0	1/6
37		LCT SEGMENT - Shipment Unit This S5 loop describes the shipment unit and content information.	M			2	210	O	1	999	2	2300					
																	See X12 Standards for explanation of syntax notes. P0405L06070809C0706C0806C0906P1011

DEPARTMENT OF DEFENSE
TRANSPORTATION EDI CONVENTION

VENDOR SHIPPING INFORMATION REQUEST
219.B.004010

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	
38		Shipment Unit TCN Use lead TCN of shipment unit (container TCN, lead TCN, pallet TCN, etc.) for the shipment unit.	M	AN	17/17	2	210	O	1	999	2	2300	LCT01	127	M AN 1/30
39		Type Pack Code See Section 6 for list of data values.	M	ID	3/3	2	210	O	1	999	2	2300	LCT02	211	M ID 3/3
40		Shipment Unit Weight Qualifier E - Metric Ton G - Grams K - Kilograms L - Pounds M - Measurement Ton O - Ounces S - Short Ton T - Long Ton	M	ID	1/1	2	210	O	1	999	2	2300	LCT04	188	C ID 1/1
41		Shipment Unit Weight	M	R	1/8	2	210	O	1	999	2	2300	LCT05	395	C R 1/8
42		Shipment Unit Measurement Unit Qualifier ELEMENT CONDITION: Required if any of LCT07, LCT08, or LCT09 is used. C - Centimeters E - Feet N - Inches X - Meters	C	ID	1/1	2	210	O	1	999	2	2300	LCT06	90	C ID 1/1
43		Shipment Unit Length ELEMENT CONDITION: Provide if available.	C	R	1/8	2	210	O	1	999	2	2300	LCT07	82	C R 1/8
44		Shipment Unit Width ELEMENT CONDITION: Provide if available.	C	R	1/8	2	210	O	1	999	2	2300	LCT08	189	C R 1/8
45		Shipment Unit Height ELEMENT CONDITION: Provide if available.	C	R	1/8	2	210	O	1	999	2	2300	LCT09	65	C R 1/8

DEPARTMENT OF DEFENSE
TRANSPORTATION EDI CONVENTION

VENDOR SHIPPING INFORMATION REQUEST
219.B.004010

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		
46		Shipment Unit Volume Unit Qualifier E - Cubic Feet X - Cubic Meters	M	ID	1/1	2	210	O	1	999	2	2300	LCT10	184	C ID	1/1
47		Shipment Unit Volume	M	R	1/8	2	210	O	1	999	2	2300	LCT11	183	C R	1/8
48		L11 SEGMENT - Radio Frequency Identification Tag Number SEGMENT CONDITION: Required when RFID Tag Number applies.	C			2	260	O	10	999	2	2300				
																See X12 Standards for explanation of syntax notes. R0103P0102
49		Radio Frequency Identification Tag Number Enter the RFID Tag Number associated with the freight piece.	M	AN	1/30	2	260	O	10	999	2	2300	L1101	127	C AN	1/30
50		Radio Frequency Identification Tag Number Qualifier JH - Tag <i>Use 'JH' to denote Passive RFID tag.</i> TPN - Transponder Number <i>Use 'TPN' to denote Active RFID tag.</i>	M	ID	2/3	2	260	O	10	999	2	2300	L1102	128	C ID	2/3
51		L11 SEGMENT - DPMS Shipment Control Number SEGMENT CONDITION: If B902 = '20', enter the DPMS assigned Shipment Controlled Number from the EDI 220B, Vendor Shipping Information Response transaction related to this offer number.	C			2	260	O	10	999	2	2300				
																See X12 Standards for explanation of syntax notes. R0103P0102
52		DPMS Shipment Control Number Enter DPMS Shipment Control Number.	M	AN	8/8	2	260	O	10	999	2	2300	L1101	127	C AN	1/30
53		DPMS Shipment Control Number Qualifier 06 - System Number <i>Use '06' to denote DPMS Shipment Control Number.</i>	M	ID	2/2	2	260	O	10	999	2	2300	L1102	128	C ID	2/3
54		L11 SEGMENT - Transportation Tracking Number SEGMENT CONDITION: Mandatory if B902 = '00' or '20'. If B902 = '13' or '28', this segment should be used if information is available.	C			2	260	O	10	999	2	2300				
																See X12 Standards for explanation of syntax notes. R0103P0102
55		Transportation Tracking Number Enter the Tracking Number for small parcel shipments or the freight waybill for truckload and less than truckload motor shipments.	M	AN	1/30	2	260	O	10	999	2	2300	L1101	127	C AN	1/30

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	
56		Transportation Tracking Number Qualifier 2I - Tracking Number	M	ID	2/2	2	260	O	10	999	2	2300	L1102	128	C ID 2/3
57		L11 SEGMENT - Special Handling Minimum Temperature Allowed SEGMENT CONDITION: Use the segment when Special Temperature Handling is required.	C			2	260	O	10	999	2	2300			See X12 Standards for explanation of syntax notes. R0103P0102
58		Special Handling Minimum Temperature Allowed Enter Minimum Temperature (in Fahrenheit) at which freight may be kept.	M	AN	1/3	2	260	O	10	999	2	2300	L1101	127	C AN 1/30
59		Minimum Temperature Allowed Qualifier SU - Special Processing Code <i>Use 'SU' to denote Minimum Temperature Allowed.</i>	M	ID	2/2	2	260	O	10	999	2	2300	L1102	128	C ID 2/3
60		L11 SEGMENT - Special Handling Maximum Temperature Allowed SEGMENT CONDITION: Use the segment when special temperature handling is required.	C			2	260	O	10	999	2	2300			See X12 Standards for explanation of syntax notes. R0103P0102
61		Special Handling Maximum Temperature Allowed Enter Maximum Temperature (in Fahrenheit) at which freight may be kept.	M	AN	1/3	2	260	O	10	999	2	2300	L1101	127	C AN 1/30
62		Maximum Temperature Allowed Qualifier HQ - Reinsurance Reference <i>Use 'HQ' to denote Maximum Temperature Allowed.</i>	M	ID	2/3	2	260	O	10	999	2	2300	L1102	128	C ID 2/3
63		LAD SEGMENT - Detailed Order Information Repeat this sub-loop for each requisition number associated with the TCN identified in the LX loop. If there is no requisition number, then repeat the loop for each unique combination of purchase order, CLIN, and release number associated with the TCN identified in the LX loop. Repeat this sub-loop for each requisition number associated with the TCN identified in the LX loop. If there is no requisition number, then repeat the loop for each unique combination of purchase order, CLIN, and release number associated with the TCN identified in the LX loop.	M			2	370	O	1	999	3	2370			See X12 Standards for explanation of syntax notes. P0102P0304P0506P0708P0910P1112
64		Quantity Shipped Enter the actual line item quantity packaged to be shipped for the order.	M	NO	1/5	2	370	O	1	999	3	2370	LAD02	80	C NO 1/7
65		Purchase Order Number Qualifier PO - Purchase Order Number	M	ID	2/2	2	370	O	1	999	3	2370	LAD07	235	C ID 2/2

DEPARTMENT OF DEFENSE
TRANSPORTATION EDI CONVENTION

VENDOR SHIPPING INFORMATION REQUEST
219.B.004010

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		
66		Purchase Order Number Insert the Purchase Order Number, delivery order number, or purchase request number without any dashes or separators. (e.g., SPM75002D9720).	M AN 13/13	2	370	O	1	999	3	2370	LAD08	234	C	AN	1/48
67		Contract Line Item Number (CLIN) Qualifier PL - Purchaser's Order Line Number <i>Use 'PL' to denote Contract Line Item Number.</i>	M ID 2/2	2	370	O	1	999	3	2370	LAD09	235	C	ID	2/2
68		Contract Line Item Number (CLIN) Enter the CLIN and sub-CLIN (if applicable) without dashes or separators.	M AN 4/6	2	370	O	1	999	3	2370	LAD10	234	C	AN	1/48
69		Customer Release Number Qualifier RN - Release Number <i>Use 'RN' to denote Customer Release Number.</i>	M ID 2/2	2	370	O	1	999	3	2370	LAD11	235	C	ID	2/2
70		Customer Release Number Enter the Customer Release Number from the purchase order.	M AN 4/6	2	370	O	1	999	3	2370	LAD12	234	C	AN	1/48
71		L11 SEGMENT - Vendor Contract Terms Use to denote the type of variance authorized in the contract.	M	2	430	O	10	999	3	2370	See X12 Standards for explanation of syntax notes. R0103P0102				
72		Vendor Contract Terms O - Over-ship authorized U - Under-ship authorized Z - No variance authorized	M AN 1/1	2	430	O	10	999	3	2370	L1101	127	C	AN	1/30
73		Vendor Contract Terms Qualifier TC - Vendor Terms <i>Use 'TC' to denote Vendor Contract Terms.</i>	M ID 2/2	2	430	O	10	999	3	2370	L1102	128	C	ID	2/3
74		L11 SEGMENT - Purchase Requisition Number SEGMENT CONDITION: Use for non-stock buys.	C	2	430	O	10	999	3	2370	See X12 Standards for explanation of syntax notes. R0103P0102				
75		Purchase Requisition Number Enter Purchase Requisition Number.	M AN 14/15	2	430	O	10	999	3	2370	L1101	127	C	AN	1/30
76		Purchase Requisition Number Qualifier RQ - Purchase Requisition Number	M ID 2/2	2	430	O	10	999	3	2370	L1102	128	C	ID	2/3

DEPARTMENT OF DEFENSE
TRANSPORTATION EDI CONVENTION

VENDOR SHIPPING INFORMATION REQUEST
219.B.004010

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		
77		G61 SEGMENT - HAZMAT Contact LOOP CONDITION: Used only if shipment contains hazardous materials.	C	2	450	O	1	99	4	2375					
				See X12 Standards for explanation of syntax notes. P0304											
78		HAZMAT Contact Qualifier HM - Hazardous Material Contact	M ID 2/2	2	450	O	1	99	4	2375	G6101	366	M ID	2/2	
79		HAZMAT Contact Name	M AN 1/60	2	450	O	1	99	4	2375	G6102	93	M AN	1/60	
80		Telephone Number Qualifier AP - Alternate Telephone <i>Use 'AP' to denote Toll-free emergency number.</i> TE - Telephone <i>Use 'TE' to denote Commercial emergency number.</i>	C ID 2/2	2	450	O	1	99	4	2375	G6103	365	C ID	2/2	
81		HAZMAT Contact Telephone Number Enter commercial telephone number (include area code) and any associated extension numbers.	C AN 10/80	2	450	O	1	99	4	2375	G6104	364	C AN	1/80	
82		LH6 SEGMENT - Hazardous Certification SEGMENT CONDITION: Used only if shipment contains hazardous materials.	C	2	470	O	6	99	4	2375					
				See X12 Standards for explanation of syntax notes. P0203											
83		Certifying Officer's Name Enter Certifying Officer's Name.	M AN 1/60	2	470	O	6	99	4	2375	LH601	93	O AN	1/60	
84		Hazardous Certification Code 1 - Abbreviated Hazardous Certification 2 - Long Form of Hazardous Certification	M ID 1/1	2	470	O	6	99	4	2375	LH602	272	C ID	1/1	
85		Hazardous Material Certification Declaration Enter Hazardous Material Certification verbiage as required by 49 CFR. 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	470	O	6	99	4	2375	LH603	273	C AN	1/25	
86		Hazardous Material Certification Declaration Enter additional hazardous material certification verbiage as required by 49 CFR. SOURCE: Hazardous Materials Regulations of the Department of Transportation by Air, Rail, Highway, and Water available from Association of American Railroads Publications	C AN 1/25	2	470	O	6	99	4	2375	LH604	273	O AN	1/25	

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		
87		LH1 SEGMENT - HAZMAT Quantities LOOP CONDITION: Required if the shipment contains hazardous material.	C	2	480	O	1	25	5	2378					
88		HAZMAT - Unit of Measure Code Contains the code identifying the Unit of Measure (type of packaging) for which the data in LH102 is reported. Use LH106 to express weight and volume. See Section 6 for list of data values.	M ID 2/2	2	480	O	1	25	5	2378	LH101	355	M	ID	2/2
89		HAZMAT - Lading Quantity Contain the number of units (pieces) of the lading commodity that is hazardous. Reference 49 CFR 172.202c.	M N0 1/7	2	480	O	1	25	5	2378	LH102	80	M	N0	1/7
90		HAZMAT - UN/NA ID 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	480	O	1	25	5	2378	LH103	277	O	ID	6/6
91		HAZMAT - English Measurement Code Use the unit of measure codes for quantity or volume of non bulk shipments. This will typically be pounds, cubic feet, or a unit of measure other than pieces. If the weight of the hazardous material is measured in other than the above listed Weight Units of Measure, refer to X12 Standard, DE 355. Use LH101 to express type of packaging. ELEMENT CONDITION: Required if LH107 is used. See Section 6 for list of data values.	C ID 2/2	2	480	O	1	25	5	2378	LH106	355	O	ID	2/2
92		HAZMAT - Quantity Quantity refers to the amount (i.e., weight in pounds, volume in cubic feet, or other such measurement) of the hazardous material commodity that is to be transported. ELEMENT CONDITION: If available, data must be sent	C R 1/15	2	480	O	1	25	5	2378	LH107	380	O	R	1/15
93		HAZMAT - Residue Indicator Code R - Residue Last Contained Description (Tank Car) <i>Use 'R' to denote The unit being shipped is empty and contains a residue from a prior movement, reference 40 CFR 172.203(e).</i>	C ID 1/1	2	480	O	1	25	5	2378	LH109	665	O	ID	1/1
94		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	480	O	1	25	5	2378	LH110	254	O	ID	1/3

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		
95		LH2 SEGMENT - HAZMAT Classification SEGMENT CONDITION: Required for loaded and unloaded HAZMAT shipments.	C	2	490	O	4	25	5	2378					
				See X12 Standards for explanation of syntax notes. P0607P0809P1011											
96		HAZMAT - Hazardous Class/Division Identify the Hazard Class or Division prescribed for the material as shown in column 3 of 49 CFR Table 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 segment 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	490	O	4	25	5	2378	LH201	215	O	ID 1/30	
97		HAZMAT - Hazard Class Qualifier Repeat the LH2 segment 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	490	O	4	25	5	2378	LH202	983	O	ID 1/1	
98		HAZMAT - Reportable Quantity For empty packagings or units containing the residue of a hazardous material, reference 49 CFR 172.203(e). ELEMENT CONDITION: Required if necessary to indicate a Reportable Quantity is present in the shipment. RQ - Reportable Quantity	C ID 2/2	2	490	O	4	25	5	2378	LH205	759	O	ID 2/2	
99		HAZMAT Flashpoint Temperature Code ELEMENT CONDITION: Required if HAZMAT Flashpoint Temperature applies to shipment CE - Centigrade, Celsius <i>Use 'CE' to denote Centigrade.</i> FA - Fahrenheit	C ID 2/2	2	490	O	4	25	5	2378	LH206	355	C	ID 2/2	
100		HAZMAT Flashpoint Temperature ELEMENT CONDITION: Required if HAZMAT Flashpoint Temperature applies to shipment.	C R 1/4	2	490	O	4	25	5	2378	LH207	408	C	R 1/4	
101		LH3 SEGMENT - HAZMAT Name SEGMENT CONDITION: Required if the shipment contains hazardous material.	C	2	500	O	10	25	5	2378					
				See X12 Standards for explanation of syntax notes. P0102											

DEPARTMENT OF DEFENSE
TRANSPORTATION EDI CONVENTION

VENDOR SHIPPING INFORMATION REQUEST
219.B.004010

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		
102		HAZMAT Proper Shipping Name From table at 49 CFR 172.101, column 2. Mandatory for all hazardous material shipments. See 49 CFR 172.202 for additional details. Create additional LH3 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	500	O	10	25	5	2378	LH301	224	C AN	1/25
103		HAZMAT Proper Shipping Name Qualifier C - Canadian Shipping Name D - Domestic (United States) Shipping Name I - International Shipping Name	M	ID	1/1	2	500	O	10	25	5	2378	LH302	984	C ID	1/1
104		N.O.S. Indicator Code NOS - N.O.S. Regulatory Requirements Apply	M	ID	3/3	2	500	O	10	25	5	2378	LH303	985	O ID	3/3
105		LFH SEGMENT - HAZMAT Remarks SEGMENT CONDITION: Use if HAZMAT Remarks are required.	C			2	510	O	20	25	5	2378				See X12 Standards for explanation of syntax notes. P0506

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	
106		HAZMAT Additional Basic Description Information Qualifier Contains the hazardous material shipment information qualifier indicating the type of information being passed. If the X12 code definition accompanying an LFH01 code value contains text in quotations, place the part in quotations in LFH02. If the code definition contains no quotations, see the user note in LFH02 for further guidance. If the N.O.S indicator is specified in LH303, use code value 'TEC' in this data segment. Use code value 'ADI' for other information not accounted for in the code list. Enter additional information that must appear in association with the shipment's basic description according to 49 CFR. Use additional occurrences of LFH segment as necessary for each code that applies to the shipment. ADI - Additional Descriptive Information Not Required by Regulation but Desired to Accompany the Movement by the Shipper DWW - "Dangerous When Wet" Declaration HOT - Identifies Products in a Heated Molten State HZC - Hazardous Substance Constituents LQY - "Limited Quantity" Declaration MOS - Maximum Operating Speed MPI - Marine Pollutant PIH - "Poison - Inhalation Hazard" Declaration POI - Poison Declaration RAM - Radioactive Material Data TEC - Technical or Chemical Group Name	M ID 3/3	2	510	O	20	25	5	2378	LFH01	808	M ID	3/3
107		HAZMAT Additional Basic Description Information Contains specific information about the hazardous material shipment. When applicable, use the descriptive narrative from LFH01. If LFH01='ADI', use this element for any overflow information from LFH01 or 49 CFR except Proper Shipping Name; use LFH03 for additional overflow. If LFH01='PIH', enter "Poisonous - Inhalation Hazard, Zone X", where X is the code designated in LFH04. If LFH01='HOT', enter "HOT" [see 49 CFR 172.203(n)]. If LFH01='RAM', enter the appropriate text in quotes as specified by 49 CFR 172.203(d). If LFH01='LQY', enter "Ltd Qty" or "Limited Quantity". If LFH01='HZC', enter "Hazardous substance constituents". If LFH01='MOS', enter "Maximum Operating Speed". If LFH01='MP', enter "Marine Pollutant". For N.O.S. code (LFH01="TEC"), enter the technical or chemical group name in parentheses; place overflow in LFH03; do not close parentheses until end of description is reached.	M AN 1/25	2	510	O	20	25	5	2378	LFH02	809	M AN	1/25
108		HAZMAT - Additional Information Use for description overflow from LFH02. Use LFH01, LFH02, and LFH03 as a set and repeat loop as necessary to convey all additional basic description information.	C AN 1/25	2	510	O	20	25	5	2378	LFH03	809	O AN	1/25

DEPARTMENT OF DEFENSE
TRANSPORTATION EDI CONVENTION

VENDOR SHIPPING INFORMATION REQUEST
219.B.004010

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		
109		HAZMAT - Hazard Zone Code Use applicable Hazard Zone Code when LFH01 = 'PIH'. Contains the code specifying the Department of Transportation assigned zone designating the Inhalation Toxicity Hazard Zone. A - Hazard Zone A B - Hazard Zone B C - Hazard Zone C D - Hazard Zone D	C ID 1/1	2	510	O	20	25	5	2378	LFH04	1023	O ID	1/1	
110		L3 SEGMENT - Shipment Totals	M	3	010	M	1	See X12 Standards for explanation of syntax notes. P0102P0304P0910C1201P1415							
111		Total Shipment Weight	M R 1/10	3	010	M	1				L301	81	C R	1/10	
112		Weight Qualifier G - Gross Weight	M ID 1/1	3	010	M	1				L302	187	C ID	1/2	
113		Total Shipment Volume	M R 1/8	3	010	M	1				L309	183	C R	1/8	
114		Volume Unit Qualifier E - Cubic Feet	M ID 1/1	3	010	M	1				L310	184	C ID	1/1	
115		Total Shipment Units	M N0 1/7	3	010	M	1				L311	80	O N0	1/7	
116		Units Qualifier Qualifies weight value in L301. E - Metric Ton G - Grams K - Kilograms L - Pounds M - Measurement Ton O - Ounces S - Short Ton T - Long Ton	M ID 1/1	3	010	M	1				L312	188	O ID	1/1	

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	
117		SE SEGMENT - Logistics Service Request Trailer	M	3	020	M	1							
118		Number of Included Segments	M N0 1/10	3	020	M	1				SE01	96	M	N0 1/10
119		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 6.0

APPLICATION CODE LISTS

52 -- Type Pack Code

Data Value - Definition
BAG - Bag ** Use 'BAG' to denote Bag, burlap or cloth.
BAL - Bale
BBL - Barrel
BDL - Bundle
BOX - Box
BSK - Basket or hamper ** Use 'BSK' to denote Basket.
CAB - Cabinet
CAN - Can
CAS - Case
CBY - Carboy
CNA - Household Goods Containers, Wood ** Use 'CNA' to denote HHG containers, wood.
CNB - Container, MAC-ISO (Military Airlift Container - International Standards Organization) Light Weight 8x8x20 Foot Air ** Use 'CNB' to denote Container, MAC-ISO, lt. wgt. 8x8x20 foot air.
CNC - Container, Navy cargo transporter
CND - Container, commercial highway lift
CNE - Engine Container
CNF - Multiwall Container Secured to Warehouse Pallet ** Use 'CNF' to denote Multiwall container secured to warehouse plt.
CNT - Container ** Use 'CNT' to denote Container, other than CC, CM, CU, CW, MW, MX.
CNX - CONEX - Container Express ** Use 'CNX' to denote CONEX (Gov't owned container).
COL - Coil
CRD - Cradle ** Use 'CRD' to denote Engine cradle or dolly.
CRT - Crate
CTN - Carton
CYL - Cylinder
DRM - Drum
DUF - Duffle Bag ** Use 'DUF' to denote Dufflebag.
ENV - Envelope
HPR - Hamper
KEG - Keg
LSE - Loose ** Use 'LSE' to denote Loose, not packed.
MLV - MILVAN - Military Van ** Use 'MLV' to denote MILVAN.
MSV - MSCVAN - Military Sealift Command Van ** Use 'MSV' to denote MSCVAN.
MXD - Mixed Type Pack ** Use 'MXD' to denote Mixed.
PAL - Pail
PCS - Pieces ** Use 'PCS' to denote Piece.
PLL - [Migration Code] 463L Air Pallet
PLT - Pallet ** Use 'PLT' to denote Palletized unit load other than code MW.
REL - Reel
ROL - Roll
SAK - Sack ** Use 'SAK' to denote Sack, paper.
SCS - Suitcase
SHT - Sheet
SKD - Skid
SKE - Skid, elevating or lift truck ** Use 'SKE' to denote Skid, box.
SPL - Spool
SVN - SEAVAN - Sea Van ** Use 'SVN' to denote SEAVAN.
TBE - Tube
TBN - Tote Bin ** Use 'TBN' to denote SEAVAN - TOTE.
TKR - Tank Car
TKT - Tank Truck
TRK - Trunk and Chest ** Use 'TRK' to denote Footlocker (Trunk).
TRU - Truck
TUB - Tub
UNT - Unit ** Use 'UNT' to denote Unitized (use RT for unitized cargo on RORO).
VEH - Vehicles ** Use 'VEH' to denote Vehicle.
VOC - Vehicle in Operating Condition
VPK - Van Pack ** Use 'VPK' to denote Van chassis.

52 -- Type Pack Code (CONT)

Data Value - Definition
WHE - On Own Wheel ** Use 'WHE' to denote RORO (roll-off, roll-on). WRP - Wrapped

95 -- HAZMAT - Unit Of Measure Code

Data Value - Definition
BA - Bale
BD - Bundle
BG - Bag
BR - Barrel
BS - Basket
BX - Box
CA - Case
CB - Carboy
CH - Container
CL - Cylinder
CN - Can
CP - Crate
CT - Carton
CX - Coil
DR - Drum
EV - Envelope
KE - Keg
NV - Vehicle
PA - Pail
PC - Piece
PF - Pallet (Lift)
PL - Pallet/Unit Load
RE - Reel
RL - Roll
SH - Sheet
SJ - Sack
SO - Spool
SV - Skid
TB - Tube
TE - Tote
TK - Tank
WR - Wrap
ZZ - Mutually Defined

155 -- Type Pack Code

Data Value - Definition

BAG - Bag
**** Use 'BAG' to denote Bag, burlap or cloth.**

BAL - Bale

BBL - Barrel

BDL - Bundle

BOX - Box

BSK - Basket or hamper
**** Use 'BSK' to denote Basket.**

CAB - Cabinet

CAN - Can

CAS - Case

CBY - Carboy

CNA - Household Goods Containers, Wood

CNB - Container, MAC-ISO (Military Airlift Container - International Standards Organization) Light Weight 8x8x20 Foot Air
**** Use 'CNB' to denote Container, MAC-ISO, lt. wgt. 8x8x20 foot air.**

CNC - Container, Navy Cargo Transporter

CND - Container, commercial highway lift

CNE - Engine Container

CNF - Multiwall Container Secured to Warehouse Pallet
**** Use 'CNF' to denote Multiwall container secured to warehouse plt.**

CNT - Container
**** Use 'CNT' to denote Container, other than CC, CM, CU, CW, MW, MX.**

CNX - CONEX - Container Express
**** Use 'CNX' to denote CONEX (Gov't owned container).**

COL - Coil

CRD - Cradle
**** Use 'CRD' to denote Engine cradle or dolly.**

CRT - Crate

CTN - Carton

CYL - Cylinder

DRM - Drum

DUF - Duffel Bag
**** Use 'DUF' to denote Dufflebag.**

ENV - Envelope

HPR - Hamper

KEG - Keg

LSE - Loose
**** Use 'LSE' to denote Loose, not packed.**

MLV - MILVAN - Military Van
**** Use 'MLV' to denote MILVAN.**

MSV - MSCVAN - Military Sealift Command Van
**** Use 'MSV' to denote MSCVAN.**

MXD - Mixed Type Pack
**** Use 'MXD' to denote Mixed.**

PAL - Pail

PCS - Pieces
**** Use 'PCS' to denote Piece.**

PLL - 463L Air Pallet

PLT - Pallet
**** Use 'PLT' to denote Palletized unit load other than code MW.**

REL - Reel

ROL - Roll

SAK - Sack
**** Use 'SAK' to denote Sack, paper.**

SCS - Suitcase

SHT - Sheet

SKD - Skid

SKE - Skid, elevating or lift truck
**** Use 'SKE' to denote Skid, box.**

SPL - Spool

SVN - SEAVAN - Sea Van
**** Use 'SVN' to denote SEAVAN.**

TBE - Tube

TBN - Tote Bin
**** Use 'TBN' to denote SEAVAN - TOTE.**

TKR - Tank Car

TKT - Tank Truck

TRK - Trunk and Chest
**** Use 'TRK' to denote Footlocker (Trunk).**

TRU - Truck

TUB - Tub

UNT - Unit
**** Use 'UNT' to denote Unitized (use RT for unitized cargo on RORO).**

VEH - Vehicles
**** Use 'VEH' to denote Vehicle.**

VOC - Vehicle in Operating Condition

VPK - Van Pack
**** Use 'VPK' to denote Van chassis.**

155 -- Type Pack Code (CONT)

Data Value - Definition
WHE - On Own Wheel ** Use 'WHE' to denote RORO (roll-off, roll-on). WRP - Wrapped