



Department
of
Defense

DoD
Transportation
Electronic Business
(DTEB) Convention

ASC X12 Transaction Set 304
Ocean Carrier Shipping
Instructions (Version 004010) –
VSI Notification

VERSION 0

August 2010



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of
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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

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Section 1.0

INTRODUCTION

This implementation convention (IC) describes the standard or convention the Department of Defense will use to exchange ocean carrier shipping instructions 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. Identified along side each transaction set data element is the IC Element Matrix index number from Section 4.0.
- Section 4.0, IC Element Matrix, identifies the application data elements trading partners need to exchange. Programmers use this section to map an existing application database into the transaction set.
- Section 5.0 , when present, contains an example of the EDI transactions.
- Section 6.0, Application Code Lists, when present, identifies the DoD codes that trading partners need to exchange. This section augments the matrix presented in Section 4.0.
- Other sections may contain examples of hard copy documents, examples of EDI transaction sets, segment looping logic tables, and other items that serve as references for software developers.

Section 2.0

CONTROL SEGMENTS

Overview

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

Purpose

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

Contents

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

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

Special Instructions

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

DATA ELEMENT SEPARATOR

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

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

SEGMENT TERMINATOR

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

COMPONENT ELEMENT SEPARATOR

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

GS01 CODE VALUE

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

X12 PUBLICATION

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

Interchange Control Envelope Control Segments

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

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

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

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

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

DATA ELEMENT SUMMARY

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

M	GS04	373	Date Date expressed as CCYYMMDD. Information about the interchange sender or the data in the interchange; the type of information is set by the Security Information Qualifier (I03) Date assigned by translation software	M DT 8/8				
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) Time expressed in HHMM format assigned by translation software	M TM 4/8				
M	GS06	28	Group Control Number Assigned number originated and maintained by the sender Number assigned by translation software. The sender, receiver, and all third parties should be able to maintain an audit trail of interchanges using this number.	M N0 1/9				
M	GS07	455	Responsible Agency Code Code used in conjunction with Data Element 480 to identify the issuer of the standard. <table border="0"> <tr> <td style="border-bottom: 1px solid black;">Code</td> <td style="border-bottom: 1px solid black;">Definition</td> </tr> <tr> <td>X</td> <td>Accredited Standards Committee X12</td> </tr> </table>	Code	Definition	X	Accredited Standards Committee X12	M ID 1/1
Code	Definition							
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. <table border="0"> <tr> <td style="border-bottom: 1px solid black;">Code</td> <td style="border-bottom: 1px solid black;">Definition</td> </tr> <tr> <td>004010</td> <td>Draft Standard Approved for Publication by ASC X12 Procedures Review Board through October 1997</td> </tr> </table> 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.	Code	Definition	004010	Draft Standard Approved for Publication by ASC X12 Procedures Review Board through October 1997	M AN 6/6
Code	Definition							
004010	Draft Standard Approved for Publication by ASC X12 Procedures Review Board through October 1997							

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

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

DATA ELEMENT SUMMARY

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

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Section 3.0

STANDARD IMPLEMENTATION CONVENTION

This section presents the DoD's convention for generating Verified Shipping Instructions (VSI) Notifications using ASC X12 Transaction Set 304 Shipping Instructions (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.

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304 Shipping Instructions

Functional Group ID=**SO**

Introduction:

This Draft Standard for Trial Use provides the format and establishes the data contents of the Shipment Instructions Transaction Set (304) for use within the context of an Electronic Data Interchange (EDI) environment. When this transaction set is transmitted to an ocean carrier, it provides all the information necessary to prepare and distribute a contract of carriage such as an ocean bill of lading, sea waybill, and other shipping documents. When this transaction set is transmitted to a freight forwarder or customs broker, it provides for the transmission of shipping and financial information required by the forwarder or customs broker to move cargo and provide the services requested.

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	B2	Beginning Segment for Shipment Information Transaction	M	1		
Must Use	030	B2A	Set Purpose	O	1		
Not Used	040	Y6	Authentication	O	2		
Not Used	050	G1	Shipment Type Information	O	1		
Not Used	060	G2	Beyond Routing	O	1		
Not Used	070	G3	Compensation Information	O	1		
Must Use	080	N9	Reference Identification	O	100		
Not Used	085	YNQ	Yes/No Question	O	10		
Must Use	090	V1	Vessel Identification	O	2		
Not Used	100	V3	Vessel Schedule	O	1		
Not Used	110	M0	Letter of Credit Reference	O	1		
Not Used	115	CUR	Currency	O	1		n1
LOOP ID - M1						5	
Not Used	120	M1	Insurance	O	1		
Not Used	125	CUR	Currency	O	1		
Not Used	130	M2	Sales/Delivery Terms	O	1		
Not Used	140	C2	Bank ID	O	1		
Not Used	155	ITD	Terms of Sale/Deferred Terms of Sale	O	1		
Not Used	156	DTM	Date/Time Reference	O	20		
LOOP ID - N1						100	
Must Use	160	N1	Name	O	1		
	170	N2	Additional Name Information	O	2		
Must Use	180	N3	Address Information	O	2		
Must Use	190	N4	Geographic Location	O	1		
Not Used	195	G61	Contact	O	3		
LOOP ID - R4						20	
Must Use	200	R4	Port or Terminal	O	1		
Not Used	210	DTM	Date/Time Reference	O	15		
Not Used	216	R2A	Route Information with Preference	O	25		
Not Used	220	R2	Route Information	O	13		
Not Used	230	K1	Remarks	O	12		

Not Used	240	L11	Business Instructions and Reference Number	O	99
Not Used	250	H3	Special Handling Instructions	O	6
Not Used	260	L5	Description, Marks and Numbers	O	999
Not Used	270	X1	Export License	O	25
Not Used	280	X2	Import License	O	5

LOOP ID - C8					20
Not Used	290	C8	Certifications and Clauses	O	1
Not Used	295	C8C	Certifications Clauses Continuation	O	5
Not Used	300	SUP	Supplementary Information	O	10

Detail:

	<u>Pos. No.</u>	<u>Seg. ID</u>	<u>Name</u>	<u>Req. Des.</u>	<u>Max.Use</u>	<u>Loop Repeat</u>	<u>Notes and Comments</u>
LOOP ID - LX							999
Must Use	010	LX	Assigned Number	O	1		
Not Used	020	Y2	Container Details	O	10		
LOOP ID - N7							999
Must Use	030	N7	Equipment Details	O	1		
Not Used	035	QTY	Quantity	O	1		
Not Used	038	L4	Measurement	O	1		
Not Used	040	N12	Equipment Environment	O	1		
	050	M7	Seal Numbers	O	5		
Not Used	055	M7A	Seal Number Replacement	O	100		
	060	W09	Equipment and Temperature	O	1		
Not Used	062	LH6	Hazardous Certification	O	6		
LOOP ID - L1							20
Not Used	070	L1	Rate and Charges	O	1		
Not Used	080	CUR	Currency	O	1		
Not Used	100	L7	Tariff Reference	O	1		
Not Used	110	X1	Export License	O	25		
Not Used	120	X2	Import License	O	5		
Not Used	130	N9	Reference Identification	O	100		
LOOP ID - H1							10
Not Used	135	H1	Hazardous Material	O	1		
Not Used	137	H2	Additional Hazardous Material Description	O	10		
LOOP ID - LH1							100
Not Used	140	LH1	Hazardous Identification Information	O	1		
Not Used	141	LH2	Hazardous Classification Information	O	4		n2
Not Used	142	LH3	Hazardous Material Shipping Name	O	10		
Not Used	143	LFH	Freeform Hazardous Material Information	O	25		
Not Used	144	LEP	EPA Required Data	O	3		
Not Used	145	LH4	Canadian Dangerous Requirements	O	1		
Not Used	146	LHT	Transborder Hazardous Requirements	O	3		
Not Used	147	LHR	Hazardous Material Identifying Reference Numbers	O	5		
Not Used	148	PER	Administrative Communications Contact	O	5		
Not Used	151	L11	Business Instructions and Reference Number	O	100		
	160	K1	Remarks	O	10		
LOOP ID - PO4							100
Not Used	162	PO4	Item Physical Details	O	1		n3
Not Used	164	MEA	Measurements	O	5		

Not Used	166	MAN	Marks and Numbers	O	5	
Not Used	168	N9	Reference Identification	O	5	
LOOP ID - L0					120	
	170	L0	Line Item - Quantity and Weight	O	1	
	171	MEA	Measurements	O	10	
LOOP ID - PO4					100	
Not Used	172	PO4	Item Physical Details	O	1	n4
Not Used	173	MEA	Measurements	O	5	
Not Used	174	MAN	Marks and Numbers	O	5	
Not Used	175	N9	Reference Identification	O	5	
Not Used	176	QTY	Quantity	O	5	n5
	177	L4	Measurement	O	1	
Not Used	178	LH6	Hazardous Certification	O	6	
LOOP ID - PAL					3	
Not Used	179	PAL	Pallet Information	O	1	
Not Used	181	QTY	Quantity	O	1	
LOOP ID - CTP					1	
Not Used	183	CTP	Pricing Information	O	1	
Not Used	184	CUR	Currency	O	1	
Must Use	185	L5	Description, Marks and Numbers	O	999	
Not Used	187	LIN	Item Identification	O	1	
	190	L12	Alternate Lading Description	O	20	
Must Use	195	N9	Reference Identification	O	100	
Not Used	197	YNQ	Yes/No Question	O	10	
LOOP ID - L1					20	
Not Used	200	L1	Rate and Charges	O	1	
Not Used	210	CUR	Currency	O	1	
Not Used	230	L7	Tariff Reference	O	1	
LOOP ID - SAC					10	
Not Used	235	SAC	Service, Promotion, Allowance, or Charge Information	O	1	
Not Used	236	CUR	Currency	O	1	
LOOP ID - L9					10	
Not Used	237	L9	Charge Detail	O	1	
Not Used	238	CUR	Currency	O	1	
Not Used	240	X1	Export License	O	25	
Not Used	250	X2	Import License	O	5	
LOOP ID - C8					20	
Not Used	260	C8	Certifications and Clauses	O	1	
Not Used	261	C8C	Certifications Clauses Continuation	O	5	
Not Used	265	SUP	Supplementary Information	O	10	
LOOP ID - H1					10	
	270	H1	Hazardous Material	O	1	
	280	H2	Additional Hazardous Material Description	O	10	
LOOP ID - LH1					1	
Not Used	290	LH1	Hazardous Identification Information	O	1	
Not Used	300	LH2	Hazardous Classification Information	O	4	n6
Not Used	310	LH3	Hazardous Material Shipping Name	O	10	
Not Used	320	LFH	Freeform Hazardous Material Information	O	25	

Not Used	330	LEP	EPA Required Data	O	3
Not Used	340	LH4	Canadian Dangerous Requirements	O	1
Not Used	350	LHT	Transborder Hazardous Requirements	O	3
Not Used	360	LHR	Hazardous Material Identifying Reference Numbers	O	5
Not Used	370	PER	Administrative Communications Contact	O	5
LOOP ID - N1					10
	380	N1	Name	O	1
	390	N2	Additional Name Information	O	2
	400	N3	Address Information	O	2
Must Use	410	N4	Geographic Location	O	1
Not Used	420	G61	Contact	O	3

Summary:

	<u>Pos. No.</u>	<u>Seg. ID</u>	<u>Name</u>	<u>Req. Des.</u>	<u>Max.Use</u>	<u>Loop Repeat</u>	<u>Notes and Comments</u>
LOOP ID - L3						1	
Must Use	010	L3	Total Weight and Charges	O	1		
Not Used	011	CUR	Currency	O	1		
Not Used	015	MEA	Measurements	O	5		
Not Used	020	PWK	Paperwork	O	50		
Not Used	025	SUP	Supplementary Information	O	999		
LOOP ID - L1						20	
Not Used	030	L1	Rate and Charges	O	1		
Not Used	040	CUR	Currency	O	1		
LOOP ID - TDS						1	
Not Used	042	TDS	Total Monetary Value Summary	O	1		
Not Used	043	CUR	Currency	O	1		
LOOP ID - SAC						10	
Not Used	044	SAC	Service, Promotion, Allowance, or Charge Information	O	1		
Not Used	045	CUR	Currency	O	1		
LOOP ID - L9						10	
Not Used	046	L9	Charge Detail	O	1		
Not Used	047	CUR	Currency	O	1		
Not Used	048	ISS	Invoice Shipment Summary	O	5		
Not Used	050	V9	Event Detail	O	10		
Not Used	060	K1	Remarks	O	999		
Not Used	070	L11	Business Instructions and Reference Number	O	24		
M	080	SE	Transaction Set Trailer	M	1		

Transaction Set Notes

1. The currency specified at this position will be in effect for all monetary values except those accompanied by a currency segment. If any other currency segments are transmitted, they will apply to the loop in which they occur.
2. If the hazardous endorsement (LH204) is "NONE", then use of LH204 is mandatory; however, the receiver must consider it to be blanks when printing a paper document.
3. The PO4 loop may be used to transmit layered packaging information. The use of the PO4 loop in Table 2 Position 162 is mutually exclusive with the use of the PO4 loop in Table 2 Position 172 in a single iteration of the LX loop.
4. The PO4 loop may be used to transmit layered packaging information. The use of the PO4 loop in Table 2 Position 172 is mutually exclusive with the use of the PO4 loop in Table 2 Position 162 in a single iteration of the LX loop.
5. The lading quantity of principal interest to the parties exchanging information is transmitted in the LO segment. The quantity ordered and other pertinent lading quantities are to be transmitted in the QTY segments in the LO loop.
6. If the hazardous endorsement (LH204) is "NONE", then use of LH204 is mandatory; however, the receiver must consider it to be blanks when printing a paper document.

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 - Verified Shipping Instructions (VSI) Notification 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	
		[1-01] Transaction Set Identifier Code	
		304 Shipping Instructions	
		[1-01] Shipping Instructions	
M	ST02	329 Transaction Set Control Number	M AN 4/9
		Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set	
		[1-02] Transaction Set Control Number	
		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: **B2** Beginning Segment for Shipment Information Transaction
Position: 020
Loop:
Level: Heading
Usage: Mandatory
Max Use: 1
Purpose: To transmit basic data relating to shipment information
Syntax Notes:
Semantic Notes:

- 1 B202 contains the Standard Carrier Alpha Code (SCAC) of the carrier that will receive the bill of lading.
- 2 If B211 is used, B206 will indicate the party or parties responsible for payment of the transportation terms identified in B211.

Comments:

- 1 B202 is mandatory for transaction set 204.
- 2 B209 is mandatory for rail transactions.

Notes: [2] B2 SEGMENT - Shipment Identification Number

Data Element Summary

Ref.	Data	Name	Attributes
Des.	Element		
B201	375	Tariff Service Code Code specifying the types of services for rating purposes [2-01] Tariff Service Code DD Door-to-Door Rate applies for shipments in door-to-door service [2-01] Door-to-Door	O ID 2/2
>>	B202	140 Standard Carrier Alpha Code Standard Carrier Alpha Code [2-02] Standard Carrier Alpha Code SOURCE: Directory of Standard Multi-Model Carriers and Tariff Agents Codes (SCAC-STAC), NMF 101 Series available from National Motor Freight Association, Inc.	O ID 2/4
X	B203	154 Standard Point Location Code	O ID 6/9
	B204	145 Shipment Identification Number Identification number assigned to the shipment by the shipper that uniquely identifies the shipment from origin to ultimate destination and is not subject to modification; (Does not contain blanks or special characters) [2-04] Shipper Reference Number For purposes of SDDC's Integrated Booking System, this is a port call file number. ELEMENT CONDITION: Port Call File No. will not exist if the shipper books directly with a carrier. In those situations, do not use this data element; the carriers will key on booking number and container number.	O AN 1/30
X	B205	188 Weight Unit Code Refer to 004010 Data Element Dictionary for acceptable code values.	O ID 1/1
M	B206	146 Shipment Method of Payment Code identifying payment terms for transportation charges [2-06] Shipment Method of Payment PP Prepaid (by Seller) [2-06] Prepaid (by Seller)	M ID 2/2
X	B207	147 Shipment Qualifier Refer to 004010 Data Element Dictionary for acceptable code values.	O ID 1/1
X	B208	86 Total Equipment	O N0 1/3
X	B209	460 Shipment Weight Code Refer to 004010 Data Element Dictionary for acceptable code values.	O ID 1/1
X	B210	501 Customs Documentation Handling Code	O ID 2/2

			Refer to 004010 Data Element Dictionary for acceptable code values.	
X	B211	335	Transportation Terms Code	O ID 3/3
			Refer to 004010 Data Element Dictionary for acceptable code values.	
X	B212	591	Payment Method Code	O ID 3/3
			Refer to 004010 Data Element Dictionary for acceptable code values.	

Segment: **B2A** Set Purpose
Position: 030
Loop:
Level: Heading
Usage: Optional (Must Use)
Max Use: 1
Purpose: To allow for positive identification of transaction set purpose
Syntax Notes:
Semantic Notes:
Comments:
Notes:

[3] B2A SEGMENT - Transaction Set Purpose
 Use a separate 304B transaction for each container in a shipment booking.

Data Element Summary

Ref.	Data Element	Name	Attributes
M	B2A01	353 Transaction Set Purpose Code	M ID 2/2
		Code identifying purpose of transaction set	
		[3-01] Transaction Set Purpose Code	
		00 Original	
		[3-01] Original	
		05 Replace	
		[3-01] Replace	
	B2A02	346 Application Type	O ID 2/2
		Code identifying an application	
		[3-02] Application Type	
		BL Bill of Lading	
		[3-02] Bill of Lading	
		Use 'BL' to denote Shipping Instructions (SI)	
		ZZ Mutually Defined	
		[3-02] Mutually Defined	
		Use 'ZZ' to denote Verified Shipping Instructions (VSI)	

Segment: **N9 Reference Identification**
Position: 080
Loop:
Level: Heading
Usage: Optional (Must Use)
Max Use: 100
Purpose: To transmit identifying information as specified by the Reference Identification Qualifier
Syntax Notes:

- 1 At least one of N902 or N903 is required.
- 2 If N906 is present, then N905 is required.
- 3 If either C04003 or C04004 is present, then the other is required.
- 4 If either C04005 or C04006 is present, then the other is required.

Semantic Notes:

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

Comments:

Notes:
[4] N9 SEGMENT - Booking Number Information
[5] N9 SEGMENT - Container TCN
This segment stores the TCN for the container.
[6] N9 SEGMENT - Transportation Tracking Number (TTN)
SEGMENT CONDITION: Required for unit move cargo when Transportation Tracking Number is applicable.

Data Element Summary

Ref.	Data	Name	Attributes
Des.	Element		
M	N901	128 Reference Identification Qualifier	M ID 2/3
		Code qualifying the Reference Identification	
		[4-01] Booking Number Qualifier	
		[5-01] Container TCN Qualifier	
		[6-01] Transportation Tracking Number (TTN) Qualifier	
		18 Plan Number	
		The unique identification number assigned for a defined contribution plan	
		[6-01] Plan Number	
		Use '18' to denote Transportation Tracking Number (TTN)	
		BN Booking Number	
		[4-01] Booking Number	
		SI Shipper's Identifying Number for Shipment (SID)	
		A unique number (to the shipper) assigned by the shipper to identify the shipment	
		[5-01] Shipper's Identifying Number for Shipment (SID)	
		Use 'SI' to denote Container TCN	
>>	N902	127 Reference Identification	X AN 1/30
		Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	
		[4-02] Booking Number	
		Use Booking Number.	
		[5-02] Container TCN	
		[6-02] Transportation Tracking Number (TTN)	
X	N903	369 Free-form Description	X AN 1/45
X	N904	373 Date	O DT 8/8
X	N905	337 Time	X TM 4/8
X	N906	623 Time Code	O ID 2/2
		Refer to 004010 Data Element Dictionary for acceptable code values.	
X	N907	C040 Reference Identifier	O
		To identify one or more reference numbers or identification numbers as specified by the Reference Qualifier	

X	C04001	128	Reference Identification Qualifier Code qualifying the Reference Identification Refer to 004010 Data Element Dictionary for acceptable code values.	M ID 2/3
X	C04002	127	Reference Identification Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	M AN 1/30
X	C04003	128	Reference Identification Qualifier Code qualifying the Reference Identification Refer to 004010 Data Element Dictionary for acceptable code values.	X ID 2/3
X	C04004	127	Reference Identification Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	X AN 1/30
X	C04005	128	Reference Identification Qualifier Code qualifying the Reference Identification Refer to 004010 Data Element Dictionary for acceptable code values.	X ID 2/3
X	C04006	127	Reference Identification Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	X AN 1/30

Segment: **V1 Vessel Identification**
Position: 090
Loop:
Level: Heading
Usage: Optional (Must Use)
Max Use: 2
Purpose: To provide vessel details and voyage number
Syntax Notes: 1 At least one of V101 or V102 is required.
2 If V108 is present, then V101 is required.
Semantic Notes: 1 V103 is the code identifying the country in which the ship (vessel) is registered.
2 V105 identifies the ocean carrier.
Comments:
Notes: [7] V1 SEGMENT - Vessel
Enter information from booking.

Data Element Summary

Ref.	Data			
<u>Des.</u>	<u>Element</u>	<u>Name</u>		<u>Attributes</u>
V101	597	Vessel Code		X ID 1/8
		Code identifying vessel		
		[7-01] Vessel Code		
		Lloyd's Code/Radio Call Sign.		
		SOURCE: Lloyd's Register of Shipping		
>>	V102	182	Vessel Name	X AN 2/28
		Name of ship as documented in "Lloyd's Register of Ships"		
		[7-02] Vessel Name		
		SOURCE: Lloyd's Register of Shipping		
X	V103	26	Country Code	O ID 2/3
	V104	55	Flight/Voyage Number	O AN 2/10
		Identifying designator for the particular flight or voyage on which the cargo travels		
		[7-04] Commercial Voyage Number		
X	V105	140	Standard Carrier Alpha Code	O ID 2/4
X	V106	249	Vessel Requirement Code	O ID 1/1
		Refer to 004010 Data Element Dictionary for acceptable code values.		
X	V107	854	Vessel Type Code	O ID 2/2
		Refer to 004010 Data Element Dictionary for acceptable code values.		
	V108	897	Vessel Code Qualifier	O ID 1/1
		Code specifying vessel code source		
		[7-08] Vessel Code Qualifier		
		C Ship's Radio Call Signal		
		[7-08] Ship's Radio Call Signal		
		L Lloyd's Register of Shipping		
		[7-08] Lloyd's Register of Shipping		
X	V109	91	Transportation Method/Type Code	O ID 1/2
		Refer to 004010 Data Element Dictionary for acceptable code values.		

Segment: **N1** Name
Position: 160
Loop: N1 Optional (Must Use)
Level: Heading
Usage: Optional (Must Use)
Max Use: 1
Purpose: To identify a party by type of organization, name, and code
Syntax Notes: 1 At least one of N102 or N103 is required.
 2 If either N103 or N104 is present, then the other is required.
Semantic Notes:
Comments: 1 This segment, used alone, provides the most efficient method of providing organizational identification. To obtain this efficiency the "ID Code" (N104) must provide a key to the table maintained by the transaction processing party.
 2 N105 and N106 further define the type of entity in N101.
Notes: [8] N1 SEGMENT - Origin Name/DoDAAC/CAGE/D-U-N-S Begins shipment origin identifier loop. This loop calls for N1, N2, N3, and N4 segments.
 [12] N1 SEGMENT - Consignee Name/DoDAAC/CAGE/D-U-N-S Begins ultimate consignee identifier loop. This loop calls for N1, N2, N3, and N4 segments.

Data Element Summary

Ref.	Data Element	Name	Attributes
M	N101	98 Entity Identifier Code	M ID 2/3
		Code identifying an organizational entity, a physical location, property or an individual	
		[8-01] Origin Name Qualifier	
		[12-01] Consignee Name Qualifier	
		CN Consignee	
		[12-01] Consignee	
		Use 'CN' to denote Consignee Name	
		SF Ship From	
		[8-01] Ship From	
		Use 'SF' to denote Origin Name	
	N102	93 Name	X AN 1/60
		Free-form name	
		[8-02] Origin Name	
		[12-02] Consignee Name	
>>	N103	66 Identification Code Qualifier	X ID 1/2
		Code designating the system/method of code structure used for Identification Code (67)	
		[8-03] Origin DoDAAC/CAGE/D-U-N-S Qualifier	
		Use code value 'ZZ' when code values '1', '10', or '33' do not apply.	
		[12-03] Consignee DoDAAC/CAGE/D-U-N-S Qualifier	
		Use code value 'ZZ' when code values '1', '10', or '33' do not apply.	
		1 D-U-N-S Number, Dun & Bradstreet	
		[8-03] D-U-N-S Number, Dun & Bradstreet	
		[12-03] D-U-N-S Number, Dun & Bradstreet	
		10 Department of Defense Activity Address Code (DODAAC)	
		[8-03] Department of Defense Activity Address Code (DODAAC)	
		[12-03] Department of Defense Activity Address Code (DODAAC)	
		33 Commercial and Government Entity (CAGE)	
		[8-03] Commercial and Government Entity (CAGE)	
		[12-03] Commercial and Government Entity (CAGE)	
		ZZ Mutually Defined	
		[8-03] Mutually Defined	

>>	N104	67	Identification Code	X AN 2/80
			Code identifying a party or other code	
			[8-04] Origin DoDAAC/CAGE/D-U-N-S	
			Identification code of the responsible activity at the pickup location.	
			[12-04] Consignee DoDAAC/CAGE/D-U-N-S	
X	N105	706	Entity Relationship Code	O ID 2/2
			Refer to 004010 Data Element Dictionary for acceptable code values.	
X	N106	98	Entity Identifier Code	O ID 2/3
			Refer to 004010 Data Element Dictionary for acceptable code values.	

Segment: N2 Additional Name Information
Position: 170
Loop: N1 Optional (Must Use)
Level: Heading
Usage: Optional
Max Use: 2
Purpose: To specify additional names or those longer than 35 characters in length
Syntax Notes:
Semantic Notes:
Comments:
Notes:

[9] N2 SEGMENT - Origin Additional Name
 SEGMENT CONDITION: Use for Origin Additional Name as required.
 [13] N2 SEGMENT - Additional Consignee Name
 SEGMENT CONDITION: Report Additional Consignee Name if applicable.

Data Element Summary

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
M	N201	93	Name Free-form name [9-01] Origin Additional Name [13-01] Additional Consignee Name	M AN 1/60
X	N202	93	Name	O AN 1/60

Segment: N3 Address Information
Position: 180
Loop: N1 Optional (Must Use)
Level: Heading
Usage: Optional (Must Use)
Max Use: 2
Purpose: To specify the location of the named party
Syntax Notes:
Semantic Notes:
Comments:

[10] N3 SEGMENT - Origin Street
 [14] N3 SEGMENT - Consignee Street
 SEGMENT CONDITION: Report Consignee Street if available.

Data Element Summary

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
M	N301	166	Address Information Address information [10-01] Origin Street [14-01] Consignee Street	M AN 1/55
	N302	166	Address Information Address information [10-02] Origin Additional Street [14-02] Consignee Additional Street	O AN 1/55

Segment: **N4 Geographic Location**
Position: 190
Loop: N1 Optional (Must Use)
Level: Heading
Usage: Optional (Must Use)
Max Use: 1
Purpose: To specify the geographic place of the named party
Syntax Notes: 1 If N406 is present, then N405 is required.
Semantic Notes:
Comments: 1 A combination of either N401 through N404, or N405 and N406 may be adequate to specify a location.
 2 N402 is required only if city name (N401) is in the U.S. or Canada.
Notes: [11] N4 SEGMENT - Origin City/State/Postal/Country Code
 Report as many of the following data elements (City, State, ZIP Code, Country Code) as applicable.
 [15] N4 SEGMENT - Consignee City/State/Postal/Country Code
 Report as many of the following data elements (City, State, ZIP Code, Country Code) as applicable.

Data Element Summary

<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
<u>Des.</u>	<u>Element</u>		
N401	19	City Name Free-form text for city name [11-01] Origin City [15-01] Consignee City	O AN 2/30
N402	156	State or Province Code Code (Standard State/Province) as defined by appropriate government agency [11-02] Origin State or Province Code SOURCE: National Zip Code and Post Office Directory available from U.S. Postal Service National Information Data Center [15-02] Consignee State or Province Code SOURCE: National Zip Code and Post Office Directory available from U.S. Postal Service National Information Data Center	O ID 2/2
N403	116	Postal Code Code defining international postal zone code excluding punctuation and blanks (zip code for United States) [11-03] Origin ZIP/Postal 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 [15-03] Consignee ZIP/Postal 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	O ID 3/15
N404	26	Country Code Code identifying the country [11-04] Origin Country Code SOURCE: Codes for Representation of Names of Countries, ISO 3166 available from American National Standards Institute; Codes for Representation of Currencies and Funds, ISO 4217 available from American National Standards Institute [15-04] Consignee Country Code SOURCE: Codes for Representation of Names of Countries, ISO 3166 available from American National Standards Institute; Codes for Representation of Currencies and Funds, ISO 4217 available from American National Standards Institute	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: **R4** Port or Terminal
Position: 200
Loop: R4 Optional (Must Use)
Level: Heading
Usage: Optional (Must Use)
Max Use: 1
Purpose: Contractual or operational port or point relevant to the movement of the cargo
Syntax Notes: 1 If either R402 or R403 is present, then the other is required.
Semantic Notes:
Comments: 1 R4 is required for each port to be identified.
Notes: [16] R4 SEGMENT - Port of Embarkation (POE)
[17] R4 SEGMENT - Port of Debarkation (POD)

Data Element Summary

Ref.	Data Element	Name	Attributes
M	R401	115 Port or Terminal Function Code	M ID 1/1
		Code defining function performed at the port or terminal with respect to a shipment	
		[16-01] POE Qualifier	
		[17-01] POD Qualifier	
		D Port of Discharge (Operational)	
		Port at which cargo is unloaded from vessel	
		[17-01] Port of Discharge (Operational)	
		L Port of Loading (Operational)	
		Port at which cargo is loaded on vessel	
		[16-01] Port of Loading (Operational)	
R402	309	Location Qualifier	X ID 1/2
		Code identifying type of location	
		[16-02] POE Location Qualifier	
		[17-02] POD Location Qualifier	
		Required if R403 is used.	
		ELEMENT CONDITION: Required if R403 is used.	
		D Census Schedule D	
		[16-02] Census Schedule D	
		[17-02] Census Schedule D	
		IM Military Standard Movement Procedures (MILSTAMP)	
		[16-02] Military Standard Movement Procedures (MILSTAMP)	
		Use 'IM' to denote Defense Transportation Regulation Port Code	
		[17-02] Military Standard Movement Procedures (MILSTAMP)	
		Use 'IM' to denote Defense Transportation Regulation Port Code	
		K Census Schedule K	
		[16-02] Census Schedule K	
		[17-02] Census Schedule K	
R403	310	Location Identifier	X AN 1/30
		Code which identifies a specific location	
		[16-03] POE Location Identifier	
		[17-03] POD Location Identifier	
>>	R404	114 Port Name	O AN 2/24
		Free-form name for the place at which an offshore carrier originates or terminates (by transshipment or otherwise) its actual ocean carriage of property	
		[16-04] POE Name	
		[17-04] POD Name	

	R405	26	Country Code	O ID 2/3
			Code identifying the country	
			[16-05] POE Country Code	
			SOURCE: Codes for Representation of Names of Countries, ISO 3166 available from American National Standards Institute; Codes for Representation of Currencies and Funds, ISO 4217 available from American National Standards Institute	
			[17-05] POD Country Code	
			SOURCE: Codes for Representation of Names of Countries, ISO 3166 available from American National Standards Institute; Codes for Representation of Currencies and Funds, ISO 4217 available from American National Standards Institute	
X	R406	174	Terminal Name	O AN 2/30
X	R407	113	Pier Number	O AN 1/4
	R408	156	State or Province Code	O ID 2/2
			Code (Standard State/Province) as defined by appropriate government agency	
			[16-08] POE State or Province Code	
			SOURCE: National Zip Code and Post Office Directory available from U.S. Postal Service National Information Data Center	
			[17-08] POD State or Province Code	
			SOURCE: National Zip Code and Post Office Directory available from U.S. Postal Service National Information Data Center	

Segment: **LX** Assigned Number
Position: 010
Loop: LX 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: [18] LX SEGMENT - Container Level Information Loop Use only one LX loop per line item. Repeat container details for each LX loop.

Data Element Summary

	<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
M	<u>Des.</u> LX01	<u>Element</u> 554	<u>Assigned Number</u>	M N0 1/6
			Number assigned for differentiation within a transaction set	
			[18-01] Assigned Number	
			Enter value one (1). Increment by one (1) for each additional loop.	

Segment: N7 Equipment Details
Position: 030
Loop: N7 Optional (Must Use)
Level: Detail
Usage: Optional (Must Use)
Max Use: 1
Purpose: To identify the equipment
Syntax Notes:

- 1 If either N703 or N704 is present, then the other is required.
- 2 If either N705 or N716 is present, then the other is required.
- 3 If either N708 or N709 is present, then the other is required.

Semantic Notes:

- 1 N712 is the owner of the equipment.
- 2 N723 is the operator or carrier of the rights of the equipment.

Comments:

- 1 N701 is mandatory for rail transactions.
- 2 N720 and N721 are expressed in inches.

Notes: [19] N7 SEGMENT - Container Initial/Number/Wgt/Volume & Equipmt Description/Lgth/Type

Data Element Summary

Ref.	Data Element	Name	Attributes
>>	N701	206 Equipment Initial	O AN 1/4
		Prefix or alphabetic part of an equipment unit's identifying number	
		[19-01] Container ID	
		Enter the three alphabetic character Owner code and single alphabetic character Product Group code (the four alphabetic characters that begin the container number)of the equipment owner that appears on the container. If unavailable, enter the equipment owner's SCAC.	
		SOURCE: IATA Unit Load Devices Manual available from International Air Transport Association	
M	N702	207 Equipment Number	M AN 1/10
		Sequencing or serial part of an equipment unit's identifying number (pure numeric form for equipment number is preferred)	
		[19-02] Container Number	
		This is the number that appears on the side of the container.	
>>	N703	81 Weight	X R 1/10
		Numeric value of weight	
		[19-03] Container Weight	
		Cargo + dunnage (does not include weight of container or chassis).	
>>	N704	187 Weight Qualifier	X ID 1/2
		Code defining the type of weight	
		[19-04] Container Weight Qualifier	
		CE Certified Weight of Cargo	
		[19-04] Certified Weight of Cargo	
X	N705	167 Tare Weight	X N0 3/8
X	N706	232 Weight Allowance	O N0 2/6
X	N707	205 Dunnage	O N0 1/6
>>	N708	183 Volume	X R 1/8
		Value of volumetric measure	
		[19-08] Container Volume	
		Volume of cargo plus dunnage.	
>>	N709	184 Volume Unit Qualifier	X ID 1/1
		Code identifying the volume unit	
		[19-09] Container Volume Unit Qualifier	
		E Cubic Feet	
		[19-09] Cubic Feet	
X	N710	102 Ownership Code	O ID 1/1

Equipment Description Code

Code identifying type of equipment used for shipment

[19-11] Equipment Description Code

ELEMENT CONDITION: Required only for direct booking.

AC	Closed Container [19-11] Closed Container
AT	Closed Container (Controlled Temperature) [19-11] Closed Container (Controlled Temperature)
BC	Covered Barge [19-11] Covered Barge
BK	Container, Bulk [19-11] Container, Bulk Use 'BK' to denote Container
BO	Barge Open [19-11] Barge Open
BR	Barge [19-11] Barge
CC	Container resting on a Chassis [19-11] Container resting on a Chassis
CG	Container, Tank (Gas) [19-11] Container, Tank (Gas)
CH	Chassis [19-11] Chassis
CI	Container, Insulated [19-11] Container, Insulated
CJ	Container, Insulated/Ventilated [19-11] Container, Insulated/Ventilated
CL	Container (Closed Top - Length Unspecified) [19-11] Container (Closed Top - Length Unspecified)
CM	Container, Open-Sided [19-11] Container, Open-Sided
CN	Container [19-11] Container
CQ	Container, Tank (Food Grade-Liquid) [19-11] Container, Tank (Food Grade-Liquid)
CS	Container-Low Side Open Top [19-11] Container-Low Side Open Top
CU	Container (Open Top - Length Unspecified) [19-11] Container (Open Top - Length Unspecified)
CV	Closed Van [19-11] Closed Van
CW	Container, Tank (Chemicals) [19-11] Container, Tank (Chemicals)
CX	Container, Tank [19-11] Container, Tank
CZ	Refrigerated Container [19-11] Refrigerated Container
DD	Double-Drop Trailer A flatbed with two drop decks

	[19-11] Double-Drop Trailer
DT	Drop Back Trailer
	[19-11] Drop Back Trailer
FH	Flat Bed Trailer with Headboards
	[19-11] Flat Bed Trailer with Headboards
FN	Flat Bed Trailer with No Headboards
	[19-11] Flat Bed Trailer with No Headboards
FR	Flat Bed Trailer - Removable Sides
	[19-11] Flat Bed Trailer - Removable Sides
FT	Flat Bed Trailer
	[19-11] Flat Bed Trailer
HB	Container with Hangar Bars
	Container must be equipped with hangar beams/bars for garment shipments
	[19-11] Container with Hangar Bars
HV	High Cube Van
	[19-11] High Cube Van
IX	Boxcar (Insulated)
	[19-11] Boxcar (Insulated)
LS	Half Height Flat Rack
	[19-11] Half Height Flat Rack
	Use 'LS' to denote Flat-Rack
OT	Open-top/flatbed trailer
	[19-11] Open-top/flatbed trailer
OV	Open Top Van
	[19-11] Open Top Van
PL	Container, Platform
	[19-11] Container, Platform
PT	Protected Trailer
	[19-11] Protected Trailer
RA	Fixed-Rack, Flat-Bed Trailer
	A flatbed trailer with an A-frame
	[19-11] Fixed-Rack, Flat-Bed Trailer
RC	Refrigerated (Reefer) Car
	[19-11] Refrigerated (Reefer) Car
RD	Fixed-Rack, Double Drop Trailer
	A double-drop, flatbed with an A-frame
	[19-11] Fixed-Rack, Double Drop Trailer
	Use 'RD' to denote Fixed-Rack, Double Top Trailer
RE	Flat Car (End Bulkheads)
	[19-11] Flat Car (End Bulkheads)
RF	Flat Car
	[19-11] Flat Car
RR	Rail Car
	[19-11] Rail Car
SD	Single-Drop Trailer
	A flatbed trailer with one drop deck
	[19-11] Single-Drop Trailer
SL	Container, Steel
	Container must be made of steel
	[19-11] Container, Steel
SS	Container with Smooth Sides

Walls in ocean container must be flat/smooth

[19-11] Container with Smooth Sides

ST Removable Side Trailer

[19-11] Removable Side Trailer

TA Trailer, Heated/Insulated/Ventilated

[19-11] Trailer, Heated/Insulated/Ventilated

TC Trailer, Car

[19-11] Trailer, Car

TF Trailer, Dry Freight

[19-11] Trailer, Dry Freight

TI Trailer, Insulated

[19-11] Trailer, Insulated

TL Trailer (not otherwise specified)

[19-11] Trailer (not otherwise specified)

TM Trailer, Insulated/Ventilated

[19-11] Trailer, Insulated/Ventilated

TN Tank Car

[19-11] Tank Car

TW Trailer, Refrigerated

A refrigerated trailer capable of keeping product cold. Different from a temperature controlled trailer which is able to keep product at a constant temperature

[19-11] Trailer, Refrigerated

VA Container, Vented

Dry container must have vent openings for air exchange

[19-11] Container, Vented

X N712 140 Standard Carrier Alpha Code O ID 2/4

X N713 319 Temperature Control O AN 3/6

X N714 219 Position O AN 1/3

>> N715 567 Equipment Length O N0 4/5

Length (in feet and inches) of equipment ordered or used to transport shipment (The format is FFFII where FFF is feet and II is inches; the range for II is 00 through 11)

[19-15] Equipment Length

Format is FFFII, where 'FFF' is feet and 'II' is inches; the range for 'II' is 00 through 11.

X N716 571 Tare Qualifier Code X ID 1/1

Refer to 004010 Data Element Dictionary for acceptable code values.

>> N717 188 Weight Unit Code O ID 1/1

Code specifying the weight unit

[19-17] Container Weight Unit Qualifier

Indicates certified weight of cargo in pounds or kilograms. This is the qualifier for the weight in N703.

E Metric Ton

[19-17] Metric Ton

G Grams

[19-17] Grams

K Kilograms

[19-17] Kilograms

L Pounds

[19-17] Pounds

M Measurement Ton

[19-17] Measurement Ton

O	Ounces
	[19-17] Ounces
S	Short Ton
	[19-17] Short Ton
T	Long Ton
	[19-17] Long Ton

	N718	761	Equipment Number Check Digit	O N0 1/1
			Number which designates the check digit applied to a piece of equipment	
			[19-18] Equipment Number Check Digit	
			ELEMENT CONDITION: Use when Equipment Number Check Digit applies.	
X	N719	56	Type of Service Code	O ID 2/2
			Refer to 004010 Data Element Dictionary for acceptable code values.	
X	N720	65	Height	O R 1/8
X	N721	189	Width	O R 1/8
	N722	24	Equipment Type	O ID 4/4
			Code identifying equipment type	
			[19-22] Equipment Type	
			SOURCE: Identification Marking Code for Freight Containers (ISO 6346-1995) available from American National Standards Institute	
X	N723	140	Standard Carrier Alpha Code	O ID 2/4
X	N724	301	Car Type Code	O ID 1/4

Segment: **M7 Seal Numbers**
Position: 050
Loop: N7 Optional (Must Use)
Level: Detail
Usage: Optional
Max Use: 5
Purpose: To record seal numbers used and the organization that applied the seals
Syntax Notes:
Semantic Notes:
Comments: 1 M705 indicates the name of the organization which applied the seal(s).
Notes: [20] M7 SEGMENT - Seal Number
 SEGMENT CONDITION: Required when seals are applied. Segment may occur up to three (3) times.

Data Element Summary

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
M	M701	225	Seal Number Unique number on seal used to close a shipment [20-01] Seal Number	M AN 2/15
X	M702	225	Seal Number	O AN 2/15
X	M703	225	Seal Number	O AN 2/15
X	M704	225	Seal Number	O AN 2/15
X	M705	98	Entity Identifier Code	O ID 2/3

Refer to 004010 Data Element Dictionary for acceptable code values.

Segment: **W09** **Equipment and Temperature**
Position: 060
Loop: N7 Optional (Must Use)
Level: Detail
Usage: Optional
Max Use: 1
Purpose: To relate equipment type and required temperatures
Syntax Notes: 1 If either W0902 or W0903 is present, then the other is required.
 2 If either W0904 or W0905 is present, then the other is required.
Semantic Notes: 1 W0902 is the minimum allowable temperature condition for shipment; (the qualifying temperature scale is specified in W0903).
 2 W0904 is the maximum allowable temperature condition for shipment; (the qualifying temperature scale is specified in W0905).
 3 W0906 is used to describe the environment required within an ocean-type, refrigerated container when other than normal air is required.
 4 W0908 is the humidity percentage.
 5 W0909 is the number of air exchanges per hour.

Comments:
Notes:

[21] W09 SEGMENT - Reefer Description/Temperature
 SEGMENT CONDITION: Reefer Description/Temperature is used for reefer containers.

Data Element Summary

	<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
	<u>Des.</u>	<u>Element</u>		
M	W0901	40	Equipment Description Code Code identifying type of equipment used for shipment [21-01] Reefer Description Code CJ Container, Insulated/Ventilated [21-01] Container, Insulated/Ventilated CZ Refrigerated Container [21-01] Refrigerated Container	M ID 2/2
>>	W0902	408	Temperature Temperature [21-02] Minimum Temperature	X R 1/4
>>	W0903	355	Unit or Basis for Measurement Code Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken [21-03] Minimum Temperature Measurement Qualifier FA Fahrenheit [21-03] Fahrenheit	X ID 2/2
>>	W0904	408	Temperature Temperature [21-04] Maximum Temperature	X R 1/4
>>	W0905	355	Unit or Basis for Measurement Code Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken [21-05] Maximum Temperature Measurement Qualifier FA Fahrenheit [21-05] Fahrenheit	X ID 2/2
X	W0906	3	Free Form Message	O AN 1/60
X	W0907	1122	Vent Setting Code Refer to 004010 Data Element Dictionary for acceptable code values.	O ID 1/1
X	W0908	488	Percent	O N0 1/3
X	W0909	380	Quantity	O R 1/15

Segment: **K1** Remarks
Position: 160
Loop: LX Optional (Must Use)
Level: Detail
Usage: Optional
Max Use: 10
Purpose: To transmit information in a free-form format for comment or special instruction
Syntax Notes:
Semantic Notes:
Comments:
Notes:

[22] K1 SEGMENT - Remarks
 SEGMENT CONDITION: Used if desired for providing freeform text comments about a container.
 [23] K1 SEGMENT - Optional Remarks
 SEGMENT CONDITION: Used if desired for providing optional freeform text comments about a container.

Data Element Summary

<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
<u>Des.</u>	<u>Element</u>		
M	K101	61 Free-Form Message	M AN 1/30
		Free-form information	
		[22-01] Remarks Enter remarks for a container.	
		[23-01] Optional Remarks Enter Optional Remarks for a container. Do not use for content level detail or break bulk items.	
	K102	61 Free-Form Message	O AN 1/30
		Free-form information	
		[22-02] Additional Remarks Enter Additional Remarks for a container.	
		[23-02] Additional Optional Remarks Enter Additional Optional Remarks, if any, for a container.	

Segment: **L0** Line Item - Quantity and Weight
Position: 170
Loop: L0 Optional
Level: Detail
Usage: Optional
Max Use: 1
Purpose: To specify quantity, weight, volume, and type of service for a line item including applicable "quantity/rate-as" data

- Syntax Notes:**
- 1 If either L002 or L003 is present, then the other is required.
 - 2 If either L004 or L005 is present, then the other is required.
 - 3 If either L006 or L007 is present, then the other is required.
 - 4 If either L008 or L009 is present, then the other is required.
 - 5 If L011 is present, then L004 is required.
 - 6 If either L013 or L015 is present, then the other is required.

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

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

Notes: [24] L0 SEGMENT - Line Item Level (within container)
 LOOP CONDITION: Line Item Level required for non-empty containers. Not used if shipping an empty container.

Data Element Summary

Ref.	Data		Attributes
<u>Des.</u>	<u>Element</u>	<u>Name</u>	
>>	L001	213 Lading Line Item Number	O N0 1/3
		Sequential line number for a lading item	
		[24-01] Lading Line Item Number	
X	L002	220 Billed/Rated-as Quantity	X R 1/11
X	L003	221 Billed/Rated-as Qualifier	X ID 2/2
		Refer to 004010 Data Element Dictionary for acceptable code values.	
>>	L004	81 Weight	X R 1/10
		Numeric value of weight	
		[24-04] Lading Line Item Weight	
		Weight of the item only; should be equal to or less than the weight of the container. Use L004 and L005 when the shipment is based on pounds.	
	L005	187 Weight Qualifier	X ID 1/2
		Code defining the type of weight	
		[24-05] Lading Line Item Weight Qualifier	
		Use L004 and L005 when the shipment is based on pounds.	
		ELEMENT CONDITION: Required if L004 is used.	
		N Actual Net Weight	
		[24-05] Actual Net Weight	
	L006	183 Volume	X R 1/8
		Value of volumetric measure	
		[24-06] Lading Line Item Volume	
	L007	184 Volume Unit Qualifier	X ID 1/1
		Code identifying the volume unit	
		[24-07] Lading Line Item Volume Unit Qualifier	
		Use code value 'S' only for a direct booking transaction.	
		ELEMENT CONDITION: Required if L006 is used.	
		E Cubic Feet	
		[24-07] Cubic Feet	

			S	Measurement Ton	
				[24-07] Measurement Ton	
			X	Cubic Meters	
				[24-07] Cubic Meters	
>>	L008	80	Lading Quantity		X N0 1/7
				Number of units (pieces) of the lading commodity	
				[24-08] Content Pieces Quantity	
				Number of pieces in an individual shipping unit.	
>>	L009	211	Packaging Form Code		X ID 3/3
				Code for packaging form of the lading quantity	
				[24-09] Type Pack Code	
				SOURCE: Reference Section 6.0 of this IC for code values using applicable Type Pack Code table. Common code values associated with multiple definitions prevents documentation of the entire sub-set.	
				Sample Values: BAG,BAL,BBL,BDL	
				Refer to 004010 Data Element Dictionary for acceptable code values.	
X	L010	458	Dunnage Description		O AN 2/25
	L011	188	Weight Unit Code		O ID 1/1
				Code specifying the weight unit	
				[24-11] Weight Unit Code	
				This code value qualifies L004.	
				ELEMENT CONDITION: Required if L004 is used.	
				Sample Values: BAG,BAL,BBL,BDL	
			E	Metric Ton	
				[24-11] Metric Ton	
			G	Grams	
				[24-11] Grams	
			K	Kilograms	
				[24-11] Kilograms	
			L	Pounds	
				[24-11] Pounds	
			M	Measurement Ton	
				[24-11] Measurement Ton	
			O	Ounces	
				[24-11] Ounces	
			S	Short Ton	
				[24-11] Short Ton	
			T	Long Ton	
				[24-11] Long Ton	
X	L012	56	Type of Service Code		O ID 2/2
				Refer to 004010 Data Element Dictionary for acceptable code values.	
X	L013	380	Quantity		X R 1/15
X	L014	211	Packaging Form Code		O ID 3/3
				Refer to 004010 Data Element Dictionary for acceptable code values.	
X	L015	1073	Yes/No Condition or Response Code		X ID 1/1
				Refer to 004010 Data Element Dictionary for acceptable code values.	

Segment: **MEA** Measurements
Position: 171
Loop: L0 Optional
Level: Detail
Usage: Optional
Max Use: 10
Purpose: To specify physical measurements or counts, including dimensions, tolerances, variances, and weights (See Figures Appendix for example of use of C001)

Syntax Notes:

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

Semantic Notes:

Comments:

- 1 MEA04 defines the unit of measure for MEA03, MEA05, and MEA06.
- 1 When citing dimensional tolerances, any measurement requiring a sign (+ or -), or any measurement where a positive (+) value cannot be assumed, use MEA05 as the negative (-) value and MEA06 as the positive (+) value.

Notes:

[25] MEA SEGMENT - Net Explosive Weight (English)
SEGMENT CONDITION: Net Explosive Weight required for ammunition shipment.
[26] MEA SEGMENT - Round Count
SEGMENT CONDITION: Round Count required for ammunition shipment to comply with 49 CFR 171.10.

Data Element Summary

Ref.	Data			
<u>Des.</u>	<u>Element</u>	<u>Name</u>	<u>Attributes</u>	
>>	MEA01	737	Measurement Reference ID Code	O ID 2/2
			Code identifying the broad category to which a measurement applies	
			[25-01] Net Explosive Weight Qualifier	
			[26-01] Round Count Qualifier	
		CT	Counts	
			[26-01] Counts	
			Use 'CT' to denote Round Count Value	
		NX	Net Explosive Weight	
			[25-01] Net Explosive Weight	
X	MEA02	738	Measurement Qualifier	O ID 1/3
			Refer to 004010 Data Element Dictionary for acceptable code values.	
>>	MEA03	739	Measurement Value	X R 1/20
			The value of the measurement	
			[25-03] Net Explosive Weight	
			If Net Explosive Weight is available for an individual line item, carry that weight in this data element. Entry may contain a decimal; if not, decimal is assumed at right-most point of the field.	
			[26-03] Round Count	
			No decimal allowed for Round Count.	
>>	MEA04	C001	Composite Unit of Measure	X
			To identify a composite unit of measure (See Figures Appendix for examples of use)	
			[25-04] Composite Unit of Measurement Code	
			C00101 calls for an identifier from the DE 355 code list. The element separator is not used in this template. Its elements are concatenated together without using a delimiter.	
M	C00101	355	Unit or Basis for Measurement Code	M ID 2/2
			Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken	
			[25-04-01] Net Explosive Weight Qualifier (English)	
			Both metric and English units are required to comply with 49 CFR 171.10. If explosive is dry, use code value 'PN'; if wet, use code value 'GA'. By placing	

these code values (DE 355 unit qualifier) in the C00101, you are satisfying X12 syntax requirements for the composite data element.

01	Actual Pounds [25-04-01] Actual Pounds
02	Statute Mile [25-04-01] Statute Mile
03	Seconds [25-04-01] Seconds
04	Small Spray [25-04-01] Small Spray
05	Lifts [25-04-01] Lifts
06	Digits Expresses a value using total number of digits, e.g., 6 digits [25-04-01] Digits
07	Strand [25-04-01] Strand
08	Heat Lots [25-04-01] Heat Lots
09	Tire [25-04-01] Tire
10	Group [25-04-01] Group
11	Outfit [25-04-01] Outfit
12	Packet [25-04-01] Packet
13	Ration [25-04-01] Ration
14	Shot [25-04-01] Shot
15	Stick [25-04-01] Stick
16	115 Kilogram Drum A cylindrical container whose contents weigh 115 kilograms when full [25-04-01] 115 Kilogram Drum
17	100 Pound Drum A cylindrical container whose contents weigh 100 pounds when full [25-04-01] 100 Pound Drum
18	55 Gallon Drum A cylindrical container whose volume is equal to 55 gallons [25-04-01] 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 [25-04-01] Tank Truck
1A	Car Mile

	One freight car moving one mile
	[25-04-01] Car Mile
1B	Car Count
	The number of freight cars moving over a specified track
	[25-04-01] Car Count
1C	Locomotive Count
	The number of locomotives moved over a specified track
	[25-04-01] Locomotive Count
1D	Caboose Count
	The number of cabooses moved over a specified track
	[25-04-01] Caboose Count
1E	Empty Car
	Unloaded or empty cars moving over a specified track
	[25-04-01] Empty Car
1F	Train Mile
	The first locomotive in a train moving one mile
	[25-04-01] Train Mile
1G	Fuel Usage (Gallons)
	The number of gallons of diesel fuel used to move a train or all trains over specified trackage
	[25-04-01] Fuel Usage (Gallons)
1H	Caboose Mile
	One caboose moving one mile
	[25-04-01] Caboose Mile
1I	Fixed Rate
	Indicates a predetermined or set rate for usage of a facility
	[25-04-01] 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
	[25-04-01] Ton Miles
1K	Locomotive Mile
	One locomotive moving one mile
	[25-04-01] 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
	[25-04-01] 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
	[25-04-01] Total Car Mile
1N	Count
	[25-04-01] Count
1O	Season
	[25-04-01] Season
1P	Tank Car
	[25-04-01] Tank Car
1Q	Frames
	[25-04-01] Frames

1R	Transactions [25-04-01] Transactions
1X	Quarter Mile [25-04-01] 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 [25-04-01] 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 [25-04-01] 40 Foot Container
22	Deciliter per Gram Represents viscosity, Cuene intrinsic viscosity, and limit intrinsic viscosity [25-04-01] Deciliter per Gram
23	Grams per Cubic Centimeter Represents product density [25-04-01] Grams per Cubic Centimeter
24	Theoretical Pounds [25-04-01] Theoretical Pounds
25	Grams per Square Centimeter Represents product basis weight [25-04-01] Grams per Square Centimeter
26	Actual Tons [25-04-01] Actual Tons
27	Theoretical Tons [25-04-01] Theoretical Tons
28	Kilograms per Square Meter Represents product basis weight [25-04-01] Kilograms per Square Meter
29	Pounds per 1000 Square Feet Represents product basis weight [25-04-01] Pounds per 1000 Square Feet
2A	Radians Per Second Measure of angular velocity [25-04-01] Radians Per Second
2B	Radians Per Second Squared Measure of angular acceleration [25-04-01] 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 [25-04-01] Roentgen
2F	Volts Per Meter Measure of electrical field strength [25-04-01] Volts Per Meter
2G	Volts (Alternating Current)

	Measure of electrical potential
	[25-04-01] Volts (Alternating Current)
2H	Volts (Direct Current)
	Measure of electrical potential
	[25-04-01] Volts (Direct Current)
2I	British Thermal Units (BTUs) Per Hour
	British thermal units per hour
	[25-04-01] British Thermal Units (BTUs) Per Hour
2J	Cubic Centimeters Per Second
	Rate of flow
	[25-04-01] Cubic Centimeters Per Second
2K	Cubic Feet Per Hour
	Rate of flow
	[25-04-01] Cubic Feet Per Hour
2L	Cubic Feet Per Minute
	Rate of flow
	[25-04-01] Cubic Feet Per Minute
2M	Centimeters Per Second
	Rate of speed
	[25-04-01] 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
	[25-04-01] Decibels
2P	Kilobyte
	Unit of computer storage capacity equal to 1000 bytes
	[25-04-01] Kilobyte
2Q	Kilobecquerel
	Unit of radiation
	[25-04-01] Kilobecquerel
2R	Kilocurie
	Unit of radiation
	[25-04-01] Kilocurie
2U	Megagram
	Unit of mass
	[25-04-01] Megagram
2V	Megagrams Per Hour
	[25-04-01] Megagrams Per Hour
2W	Bin
	Storage container used as a unit of measurement
	[25-04-01] Bin
2X	Meters Per Minute
	Measure of linear speed
	[25-04-01] Meters Per Minute
2Y	Milliroentgen
	Unit of radiation
	[25-04-01] Milliroentgen
2Z	Millivolts
	Unit of electrical potential
	[25-04-01] Millivolts

30	Horsepower Days per Air Dry Metric Tons Represents the energy requirements for processing a product [25-04-01] Horsepower Days per Air Dry Metric Tons
31	Catchweight [25-04-01] Catchweight
32	Kilograms per Air Dry Metric Tons Represents chemical addition rate during product manufacture or chemical addition within the finished product [25-04-01] Kilograms per Air Dry Metric Tons
33	Kilopascal Square Meters per Gram Represents burst index measurement for pulp products [25-04-01] Kilopascal Square Meters per Gram
34	Kilopascals per Millimeter Represents hardness index of pulp products [25-04-01] Kilopascals per Millimeter
35	Milliliters per Square Centimeter Second Represents porosity of a sheet of material [25-04-01] Milliliters per Square Centimeter Second
36	Cubic Feet per Minute per Square Foot Represents porosity of a sheet of material [25-04-01] Cubic Feet per Minute per Square Foot
37	Ounces per Square Foot Represents sheet weight [25-04-01] Ounces per Square Foot
38	Ounces per Square Foot per 0.01 Inch Represents sheet density [25-04-01] Ounces per Square Foot per 0.01 Inch
39	Basis Points [25-04-01] Basis Points
3B	Megajoule Unit of energy or heat [25-04-01] Megajoule
3C	Manmonth Measure of work output by a single person during a typical work month [25-04-01] Manmonth
3E	Pounds Per Pound of Product [25-04-01] Pounds Per Pound of Product
3F	Kilograms Per Liter of Product [25-04-01] Kilograms Per Liter of Product
3G	Pounds Per Piece of Product [25-04-01] Pounds Per Piece of Product
3H	Kilograms Per Kilogram of Product [25-04-01] Kilograms Per Kilogram of Product
3I	Kilograms Per Piece of Product [25-04-01] Kilograms Per Piece of Product
40	Milliliter per Second Represents rate of absorbency [25-04-01] Milliliter per Second
41	Milliliter per Minute

	Represents rate of absorbency
	[25-04-01] 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
	[25-04-01] Super Bulk Bag
44	500 Kilogram Bulk Bag A flexible container for bulk goods whose contents weigh 500 kilograms when full
	[25-04-01] 500 Kilogram Bulk Bag
45	300 Kilogram Bulk Bag A flexible container for bulk goods whose contents weigh 300 kilograms when full
	[25-04-01] 300 Kilogram Bulk Bag
46	25 Kilogram Bulk Bag A flexible container for bulk goods whose contents weigh 25 kilograms when full
	[25-04-01] 25 Kilogram Bulk Bag
47	50 Pound Bag A flexible container whose contents weigh 50 pounds when full
	[25-04-01] 50 Pound Bag
48	Bulk Car Load A fully loaded rail car containing dry bulk loose materials
	[25-04-01] Bulk Car Load
4A	Bobbin A cylinder or spindle on which yarn or thread is wound
	[25-04-01] 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
	[25-04-01] Cap
4C	Centistokes $1 * 10^{-6}$ square meters/second
	[25-04-01] Centistokes
4D	Curie A unit of radioactivity equal to $3.7 * 10^{10}$ disintegrations per second
	[25-04-01] Curie
4E	20-Pack Pack containing 20 units
	[25-04-01] 20-Pack
4F	100-Pack Pack containing 100 units
	[25-04-01] 100-Pack
4G	Microliter 1/1,000,000 liter
	[25-04-01] Microliter
4H	Micrometer

	1/1,000,000 meter
	[25-04-01] Micrometer
4I	Meters Per Second Measure of linear speed
	[25-04-01] Meters Per Second
4J	Meters Per Second Per Second Measure of acceleration
	[25-04-01] Meters Per Second Per Second
4K	Milliamperes Unit of electrical current
	[25-04-01] Milliamperes
4L	Megabyte Unit of computer storage capacity
	[25-04-01] Megabyte
4M	Milligrams Per Hour Unit of flow
	[25-04-01] Milligrams Per Hour
4N	Megabecquerel Unit of radiation
	[25-04-01] Megabecquerel
4O	Microfarad Unit of electrical capacitance
	[25-04-01] Microfarad
4P	Newtons Per Meter Unit of measure for surface tension
	[25-04-01] Newtons Per Meter
4Q	Ounce Inch Unit of torque
	[25-04-01] Ounce Inch
4R	Ounce Foot Unit of torque
	[25-04-01] Ounce Foot
4S	Pascal Unit of pressure
	[25-04-01] Pascal
4T	Picofarad Unit of electrical capacitance
	[25-04-01] Picofarad
4U	Pounds Per Hour Rate of flow
	[25-04-01] Pounds Per Hour
4V	Cubic Meter Per Hour Rate of flow
	[25-04-01] Cubic Meter Per Hour
4W	Ton Per Hour Rate of flow
	[25-04-01] Ton Per Hour
4X	Kiloliter Per Hour Rate of flow
	[25-04-01] Kiloliter Per Hour
50	Actual Kilograms

	[25-04-01] Actual Kilograms
51	Actual Tonnes
	[25-04-01] Actual Tonnes
52	Credits
	[25-04-01] Credits
53	Theoretical Kilograms
	[25-04-01] Theoretical Kilograms
54	Theoretical Tonnes
	[25-04-01] Theoretical Tonnes
56	Sitas
	[25-04-01] Sitas
57	Mesh
	Linear measurement of the open area of screen, net, weave, or similarly constructed item
	[25-04-01] Mesh
58	Net Kilograms
	[25-04-01] Net Kilograms
59	Parts Per Million
	[25-04-01] Parts Per Million
5A	Barrels per Minute
	The number of 42 gallon barrels pumped or mixed in a time period of one minute
	[25-04-01] Barrels per Minute
5B	Batch
	The quantity of material produced at one operation
	[25-04-01] Batch
5C	Gallons per Thousand
	The number of gallons of a component material used per one thousand gallons of a process made
	[25-04-01] Gallons per Thousand
5E	MMSCF/Day
	One million standard cubic feet of gas per day
	[25-04-01] MMSCF/Day
5F	Pounds per Thousand
	The number of pounds of solid material used in each 1000 gallons of fluid, mixed or pumped
	[25-04-01] Pounds per Thousand
5G	Pump
	The number of pumps used on a specific job
	[25-04-01] Pump
5H	Stage
	A period or step in a process or development
	[25-04-01] 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
	[25-04-01] 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
	[25-04-01] Hydraulic Horse Power

5K	Count per Minute [25-04-01] Count per Minute
5P	Seismic Level [25-04-01] Seismic Level
5Q	Seismic Line [25-04-01] Seismic Line
60	Percent Weight [25-04-01] Percent Weight
61	Parts Per Billion [25-04-01] Parts Per Billion
62	Percent Per 1000 Hours [25-04-01] Percent Per 1000 Hours
63	Failure Rate In Time [25-04-01] Failure Rate In Time
64	Pounds Per Square Inch Gauge [25-04-01] Pounds Per Square Inch Gauge
65	Coulomb Unit of charge [25-04-01] Coulomb
66	Oersteds [25-04-01] Oersteds
67	Siemens Unit of admittance [25-04-01] Siemens
68	Ampere [25-04-01] Ampere
69	Test Specific Scale [25-04-01] Test Specific Scale
70	Volt [25-04-01] Volt
71	Volt-Ampere Per Pound [25-04-01] Volt-Ampere Per Pound
72	Watts Per Pound [25-04-01] Watts Per Pound
73	Ampere Turn Per Centimeter [25-04-01] Ampere Turn Per Centimeter
74	Milli Pascals [25-04-01] Milli Pascals
76	Gauss [25-04-01] Gauss
77	Mil [25-04-01] Mil
78	Kilogauss [25-04-01] Kilogauss
79	Electron Volt [25-04-01] Electron Volt
80	Pounds Per Square Inch Absolute [25-04-01] Pounds Per Square Inch Absolute
81	Henry Unit of inductance [25-04-01] Henry

82	Ohm Unit of resistance [25-04-01] Ohm
83	Farad Unit of capacitance [25-04-01] Farad
84	Kilo Pounds Per Square Inch (KSI) [25-04-01] Kilo Pounds Per Square Inch (KSI)
85	Foot Pounds [25-04-01] Foot Pounds
86	Joules [25-04-01] Joules
87	Pounds per Cubic Foot [25-04-01] Pounds per Cubic Foot
89	Poise [25-04-01] Poise
8C	Cord [25-04-01] Cord
8D	Duty [25-04-01] Duty
8P	Project [25-04-01] Project
8R	Program [25-04-01] Program
8S	Session [25-04-01] Session
8U	Square Kilometer [25-04-01] Square Kilometer
90	Saybold Universal Second A measure of kinematic viscosity, usually of oil [25-04-01] Saybold Universal Second
91	Stokes [25-04-01] Stokes
92	Calories per Cubic Centimeter [25-04-01] Calories per Cubic Centimeter
93	Calories per Gram [25-04-01] Calories per Gram
94	Curl Units [25-04-01] Curl Units
95	20,000 Gallon Tankcar A 20,000 gallon liquid capacity enclosed rail car [25-04-01] 20,000 Gallon Tankcar
96	10,000 Gallon Tankcar A 10,000 gallon liquid capacity enclosed rail car [25-04-01] 10,000 Gallon Tankcar
97	10 Kilogram Drum A cylindrical container whose contents weigh 10 kilograms when full [25-04-01] 10 Kilogram Drum
98	15 Kilogram Drum A cylindrical container whose contents weigh 15 kilograms when full

	[25-04-01] 15 Kilogram Drum
99	Watt
	[25-04-01] Watt
A8	Dollars per Hours
	A rate expressed in dollars per hour to be charged for each hour worked
	[25-04-01] Dollars per Hours
AA	Ball
	[25-04-01] Ball
AB	Bulk Pack
	[25-04-01] Bulk Pack
AC	Acre
	[25-04-01] 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
	[25-04-01] Bytes
AE	Amperes per Meter
	[25-04-01] Amperes per Meter
AF	Centigram
	A unit of metric weight equal to 0.01 gram or 0.000035 ounce
	[25-04-01] Centigram
AG	Angstrom
	[25-04-01] 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
	[25-04-01] 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
	[25-04-01] Average Minutes Per Call
AJ	Cop
	A cylindrical or conical mass of thread, yarn, or cable on a quill or a tube
	[25-04-01] Cop
AK	Fathom
	A unit of length equal to 6.0 feet or 1.829 meters
	[25-04-01] Fathom
AL	Access Lines
	Number of lines subject to Carrier Access Line Charges
	[25-04-01] Access Lines
AM	Ampoule
	[25-04-01] 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
	[25-04-01] Minutes or Messages

AO	Ampere-turn [25-04-01] Ampere-turn
AP	Aluminum Pounds Only [25-04-01] 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 [25-04-01] Anti-hemophilic Factor (AHF) Units
AR	Suppository [25-04-01] Suppository
AS	Assortment [25-04-01] Assortment
AT	Atmosphere Equal to the pressure of the air at sea level, or approximately 14.7 pounds per square inch [25-04-01] 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 [25-04-01] Ocular Insert System
AV	Capsule A compact metallic or plastic container for liquids or solids [25-04-01] Capsule
AW	Powder-Filled Vials Standard unit of intravenous blood product that has to be reconstituted with a liquid before being administered [25-04-01] Powder-Filled Vials
AX	Twenty 20 each of an item of supply [25-04-01] Twenty
AY	Assembly [25-04-01] Assembly
AZ	British Thermal Units (BTUs) per Pound [25-04-01] British Thermal Units (BTUs) per Pound
B0	British Thermal Units (BTUs) per Cubic Foot [25-04-01] British Thermal Units (BTUs) per Cubic Foot
B1	Barrels per Day [25-04-01] Barrels per Day
B2	Bunks [25-04-01] Bunks
B3	Batting Pound [25-04-01] Batting Pound
B4	Barrel, Imperial [25-04-01] Barrel, Imperial
B5	Billet [25-04-01] Billet
B6	Bun [25-04-01] Bun
B7	Cycles

	[25-04-01] Cycles
B8	Board
	[25-04-01] Board
B9	Batt
	[25-04-01] Batt
BA	Bale
	[25-04-01] Bale
BB	Base Box
	[25-04-01] Base Box
BC	Bucket
	[25-04-01] Bucket
BD	Bundle
	[25-04-01] Bundle
BE	Beam
	[25-04-01] Beam
BF	Board Feet
	[25-04-01] Board Feet
BG	Bag
	[25-04-01] Bag
BH	Brush
	[25-04-01] Brush
BI	Bar
	A centimeter-gram-second unit of pressure, equal to one million dynes per square centimeter
	[25-04-01] Bar
BJ	Band
	[25-04-01] Band
BK	Book
	[25-04-01] Book
BL	Block
	[25-04-01] Block
BM	Bolt
	[25-04-01] Bolt
BN	Bulk
	[25-04-01] Bulk
BO	Bottle
	[25-04-01] Bottle
BP	100 Board Feet
	[25-04-01] 100 Board Feet
BQ	Brake horse power
	The horsepower made available by an engine or turbine for driving machinery other than itself
	[25-04-01] Brake horse power
BR	Barrel
	[25-04-01] Barrel
BS	Basket
	[25-04-01] Basket
BT	Belt
	[25-04-01] Belt
BU	Bushel
	32 dry quarts
	[25-04-01] Bushel

BV	Bushel, Dry Imperial [25-04-01] Bushel, Dry Imperial
BW	Base Weight [25-04-01] Base Weight
BX	Box [25-04-01] Box
BY	British Thermal Unit (BTU) [25-04-01] British Thermal Unit (BTU)
BZ	Million BTU's [25-04-01] Million BTU's
C0	Calls Number of calls handled [25-04-01] Calls
C1	Composite Product Pounds (Total Weight) [25-04-01] Composite Product Pounds (Total Weight)
C2	Carset [25-04-01] Carset
C3	Centiliter [25-04-01] Centiliter
C4	Carload [25-04-01] Carload
C5	Cost [25-04-01] Cost
C6	Cell [25-04-01] Cell
C7	Centipoise (CPS) [25-04-01] Centipoise (CPS)
C8	Cubic Decimeter [25-04-01] Cubic Decimeter
C9	Coil Group [25-04-01] Coil Group
CA	Case [25-04-01] Case
CB	Carboy [25-04-01] Carboy
CC	Cubic Centimeter [25-04-01] Cubic Centimeter
CD	Carat [25-04-01] Carat
CE	Centigrade, Celsius [25-04-01] Centigrade, Celsius
CF	Cubic Feet [25-04-01] Cubic Feet
CG	Card [25-04-01] Card
CH	Container [25-04-01] Container
CI	Cubic Inches [25-04-01] Cubic Inches
CJ	Cone [25-04-01] Cone

CK	Connector [25-04-01] Connector
CL	Cylinder [25-04-01] Cylinder
CM	Centimeter [25-04-01] Centimeter
CN	Can [25-04-01] Can
CO	Cubic Meters (Net) [25-04-01] Cubic Meters (Net)
CP	Crate [25-04-01] Crate
CQ	Cartridge [25-04-01] Cartridge
CR	Cubic Meter [25-04-01] Cubic Meter
CS	Cassette [25-04-01] Cassette
CT	Carton [25-04-01] Carton
CU	Cup [25-04-01] Cup
CV	Cover [25-04-01] Cover
CW	Hundred Pounds (CWT) [25-04-01] Hundred Pounds (CWT)
CX	Coil [25-04-01] Coil
CY	Cubic Yard [25-04-01] Cubic Yard
CZ	Combo [25-04-01] Combo
D2	Shares [25-04-01] Shares
D3	Square Decimeter Metric unit of area [25-04-01] Square Decimeter
D5	Kilogram Per Square Centimeter Unit of pressure [25-04-01] Kilogram Per Square Centimeter
D8	Draize Score [25-04-01] Draize Score
D9	Dyne per Square Centimeter [25-04-01] Dyne per Square Centimeter
DA	Days [25-04-01] Days
DB	Dry Pounds [25-04-01] Dry Pounds
DC	Disk (Disc) [25-04-01] Disk (Disc)
DD	Degree

	[25-04-01] Degree
DE	Deal
	[25-04-01] Deal
DF	Dram
	[25-04-01] Dram
DG	Decigram
	[25-04-01] Decigram
DH	Miles
	[25-04-01] Miles
DI	Dispenser
	[25-04-01] Dispenser
DJ	Decagram
	[25-04-01] Decagram
DK	Kilometers
	[25-04-01] Kilometers
DL	Deciliter
	[25-04-01] Deciliter
DM	Decimeter
	[25-04-01] Decimeter
DN	Deci Newton-Meter
	One tenth of a Newton-meter, representing torque. A Newton-meter represents force times distance
	[25-04-01] Deci Newton-Meter
DO	Dollars, U.S.
	[25-04-01] Dollars, U.S.
DP	Dozen Pair
	[25-04-01] Dozen Pair
DQ	Data Records
	Number of Data Records handled
	[25-04-01] Data Records
DR	Drum
	[25-04-01] Drum
DS	Display
	[25-04-01] Display
DT	Dry Ton
	[25-04-01] 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
	[25-04-01] Dyne
DW	Calendar Days
	[25-04-01] Calendar Days
DX	Dynes per Centimeter
	Unit of surface tension
	[25-04-01] Dynes per Centimeter
DY	Directory Books
	Number of directory books delivered to customer
	[25-04-01] Directory Books
DZ	Dozen
	[25-04-01] Dozen
E1	Hectometer

	A unit of metric length equal to 109.36 yards or 0.062 mile
	[25-04-01] Hectometer
E3	Inches, Fraction--Average
	[25-04-01] Inches, Fraction--Average
E4	Inches, Fraction--Minimum
	[25-04-01] Inches, Fraction--Minimum
E5	Inches, Fraction--Actual
	[25-04-01] Inches, Fraction--Actual
E7	Inches, Decimal--Average
	[25-04-01] Inches, Decimal--Average
E8	Inches, Decimal--Actual
	[25-04-01] Inches, Decimal--Actual
E9	English, (Feet, Inches)
	[25-04-01] English, (Feet, Inches)
EA	Each
	[25-04-01] Each
EB	Electronic Mail Boxes
	Number of Electronic Mail Boxes established for an account
	[25-04-01] Electronic Mail Boxes
EC	Each per Month
	[25-04-01] Each per Month
ED	Inches, Decimal--Nominal
	[25-04-01] Inches, Decimal--Nominal
EE	Employees
	[25-04-01] Employees
EF	Inches, Fraction-Nominal
	[25-04-01] Inches, Fraction-Nominal
EG	Double-time Hours
	[25-04-01] Double-time Hours
EH	Knots
	[25-04-01] Knots
EJ	Locations
	[25-04-01] Locations
EM	Inches, Decimal-Minimum
	[25-04-01] Inches, Decimal-Minimum
EP	Eleven pack
	[25-04-01] Eleven pack
EQ	Equivalent Gallons
	Represents number of gallons that syrup and concentrate make of product
	[25-04-01] Equivalent Gallons
EV	Envelope
	[25-04-01] Envelope
EX	Feet, Inches and Fraction
	[25-04-01] Feet, Inches and Fraction
EY	Feet, Inches and Decimal
	[25-04-01] Feet, Inches and Decimal
EZ	Feet and Decimal
	[25-04-01] Feet and Decimal
F1	Thousand Cubic Feet Per Day

	The unit of measure of the rate of production of a gas [25-04-01] 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 [25-04-01] International Unit
F3	Equivalent Weight of a substance which combines with or replaces one gram atomic weight of hydrogen [25-04-01] Equivalent
F4	Minim An apothecary's fluid measure; 60 minims = 1 fluid gram (approx. 5 cc) [25-04-01] Minim
F5	MOL Gram-molecular weight of a gas [25-04-01] MOL
F6	Price Per Share [25-04-01] Price Per Share
F9	Fibers per Cubic Centimeter of Air [25-04-01] Fibers per Cubic Centimeter of Air
FA	Fahrenheit [25-04-01] Fahrenheit
FB	Fields [25-04-01] Fields
FC	1000 Cubic Feet [25-04-01] 1000 Cubic Feet
FD	Million Particles per Cubic Foot [25-04-01] Million Particles per Cubic Foot
FE	Track Foot Represents rails, all ties and fittings, and subgrade [25-04-01] Track Foot
FF	Hundred Cubic Meters A unit of metric volume equal to 131.0 cubic yards [25-04-01] 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 [25-04-01] Transdermal Patch
FH	Micromolar One millionth of a mole; a mole is a standard chemical unit [25-04-01] Micromolar
FJ	Sizing Factor [25-04-01] Sizing Factor
FK	Fibers [25-04-01] Fibers
FL	Flake Ton [25-04-01] Flake Ton
FM	Million Cubic Feet [25-04-01] Million Cubic Feet
FO	Fluid Ounce

	[25-04-01] Fluid Ounce
FP	Pounds per Sq. Ft.
	[25-04-01] Pounds per Sq. Ft.
FR	Feet Per Minute
	Measure of linear speed
	[25-04-01] Feet Per Minute
FS	Feet Per Second
	Measure of linear speed
	[25-04-01] Feet Per Second
FT	Foot
	[25-04-01] 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
	[25-04-01] Fluid Ounce (Imperial)
G2	U.S. Gallons Per Minute
	Rate of flow
	[25-04-01] U.S. Gallons Per Minute
G3	Imperial Gallons Per Minute
	Rate of flow
	[25-04-01] Imperial Gallons Per Minute
G4	Gigabecquerel
	Unit of radiation equal to 27 millicuries
	[25-04-01] 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
	[25-04-01] Gill (Imperial)
G7	Microfiche Sheet
	A film that contains photographed documents greatly reduced in size
	[25-04-01] Microfiche Sheet
GA	Gallon
	[25-04-01] Gallon
GB	Gallons/Day
	[25-04-01] Gallons/Day
GC	Grams per 100 Grams
	[25-04-01] Grams per 100 Grams
GD	Gross Barrels
	[25-04-01] Gross Barrels
GE	Pounds per Gallon
	[25-04-01] Pounds per Gallon
GF	Grams per 100 Centimeters
	[25-04-01] Grams per 100 Centimeters
GG	Great Gross (Dozen Gross)
	[25-04-01] Great Gross (Dozen Gross)
GH	Half Gallon
	[25-04-01] Half Gallon
GI	Imperial Gallons
	[25-04-01] Imperial Gallons
GJ	Grams per Milliliter
	[25-04-01] Grams per Milliliter

GK	Grams per Kilogram [25-04-01] Grams per Kilogram
GL	Grams per Liter [25-04-01] Grams per Liter
GM	Grams per Sq. Meter [25-04-01] Grams per Sq. Meter
GN	Gross Gallons [25-04-01] Gross Gallons
GO	Milligrams per Square Meter [25-04-01] Milligrams per Square Meter
GP	Milligrams per Cubic Meter [25-04-01] Milligrams per Cubic Meter
GQ	Micrograms per Cubic Meter [25-04-01] Micrograms per Cubic Meter
GR	Gram [25-04-01] Gram
GS	Gross [25-04-01] Gross
GT	Gross Kilogram Represents kilograms of product and package or container [25-04-01] Gross Kilogram
GU	Gauss per Oersteds [25-04-01] 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 [25-04-01] Gigajoules
GW	Gallons Per Thousand Cubic Feet [25-04-01] Gallons Per Thousand Cubic Feet
GX	Grain A small unit of weight equal to 1/480 (.002083) troy ounce, or 0.0648 gram [25-04-01] Grain
GY	Gross Yard [25-04-01] Gross Yard
GZ	Gage Systems [25-04-01] Gage Systems
H1	Half Pages - Electronic Number of electronic half pages of data delivered [25-04-01] Half Pages - Electronic
H2	Half Liter Unit of capacity equal to 1/2 liter [25-04-01] Half Liter
H4	Hectoliter Metric measure for 100 liters [25-04-01] Hectoliter
HA	Hank One hundred feet of rope [25-04-01] Hank
HB	Hundred Boxes [25-04-01] Hundred Boxes

HC	Hundred Count
	[25-04-01] Hundred Count
HD	Half Dozen
	[25-04-01] Half Dozen
HE	Hundredth of a Carat
	[25-04-01] Hundredth of a Carat
HF	Hundred Feet
	[25-04-01] Hundred Feet
HG	Hectogram
	[25-04-01] Hectogram
HH	Hundred Cubic Feet
	[25-04-01] Hundred Cubic Feet
HI	Hundred Sheets
	[25-04-01] Hundred Sheets
HJ	Horsepower
	[25-04-01] Horsepower
HK	Hundred Kilograms
	[25-04-01] Hundred Kilograms
HL	Hundred Feet - Linear
	[25-04-01] Hundred Feet - Linear
HM	Miles Per Hour
	[25-04-01] Miles Per Hour
HN	Millimeters of Mercury
	[25-04-01] Millimeters of Mercury
HO	Hundred Troy Ounces
	[25-04-01] Hundred Troy Ounces
HP	Millimeter H2O
	Unit of pressure
	[25-04-01] Millimeter H2O
HQ	Hectare
	[25-04-01] Hectare
HR	Hours
	[25-04-01] Hours
HS	Hundred Square Feet
	[25-04-01] Hundred Square Feet
HT	Half Hour
	[25-04-01] Half Hour
HU	Hundred
	[25-04-01] Hundred
HV	Hundred Weight (Short)
	[25-04-01] Hundred Weight (Short)
HW	Hundred Weight (Long)
	[25-04-01] Hundred Weight (Long)
HY	Hundred Yards
	[25-04-01] Hundred Yards
HZ	Hertz
	[25-04-01] Hertz
IA	Inch Pound
	Unit of torque
	[25-04-01] Inch Pound
IB	Inches Per Second (Vibration Velocity)

	Measure of vibration velocity
	[25-04-01] Inches Per Second (Vibration Velocity)
IC	Counts per Inch
	[25-04-01] Counts per Inch
IE	Person
	[25-04-01] Person
IF	Inches of Water
	The maximum differential pressure for which a given meter will measure accurately and is expressed in inches of water
	[25-04-01] Inches of Water
IH	Inhaler
	Metered-dose pressurized method of getting medication into the lungs or nasal passages
	[25-04-01] Inhaler
II	Column-Inches
	A unit of area one column wide and one inch high
	[25-04-01] Column-Inches
IK	Peaks per Inch (PPI)
	[25-04-01] Peaks per Inch (PPI)
IL	Inches per Minute
	[25-04-01] Inches per Minute
IM	Impressions
	[25-04-01] Impressions
IN	Inch
	[25-04-01] Inch
IP	Insurance Policy
	An individual insurance contract
	[25-04-01] Insurance Policy
IT	Counts per Centimeter
	[25-04-01] Counts per Centimeter
IU	Inches Per Second (Linear Speed)
	Measure of linear speed
	[25-04-01] Inches Per Second (Linear Speed)
IV	Inches Per Second Per Second (Acceleration)
	Measure of acceleration
	[25-04-01] Inches Per Second Per Second (Acceleration)
IW	Inches Per Second Per Second (Vibration Acceleration)
	Measure of vibration acceleration
	[25-04-01] Inches Per Second Per Second (Vibration Acceleration)
J2	Joule Per Kilogram
	Measure of specific energy
	[25-04-01] Joule Per Kilogram
JA	Job
	[25-04-01] Job
JB	Jumbo
	[25-04-01] Jumbo
JE	Joule Per Kelvin
	Measure of heat capacity
	[25-04-01] Joule Per Kelvin

JG	Joule per Gram Joule is unit of energy and gram is unit of mass [25-04-01] Joule per Gram
JK	Mega Joule per Kilogram "Mega" means "millions" and "kilo" means "thousands" [25-04-01] 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 [25-04-01] Megajoule/Cubic Meter
JO	Joint [25-04-01] Joint
JR	Jar [25-04-01] Jar
JU	Jug [25-04-01] Jug
K1	Kilowatt Demand Represents potential power load measured at predetermined intervals [25-04-01] 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 [25-04-01] Kilovolt Amperes Reactive Demand
K3	Kilovolt Amperes Reactive Hour Represents actual electricity equivalent to kilowatt hours; billable when usage meets or exceeds defined parameters [25-04-01] Kilovolt Amperes Reactive Hour
K4	Kilovolt Amperes Measure of electrical power [25-04-01] Kilovolt Amperes
K5	Kilovolt Amperes Reactive Measure of electrical power [25-04-01] Kilovolt Amperes Reactive
K6	Kiloliter One thousand liters [25-04-01] Kiloliter
K7	Kilowatt Measure of electrical power [25-04-01] Kilowatt
K9	Kilograms per Millimeter Squared (KG/MM2) [25-04-01] Kilograms per Millimeter Squared (KG/MM2)
KA	Cake [25-04-01] Cake
KB	Kilocharacters Kilocharacters of data transmitted [25-04-01] Kilocharacters
KC	Kilograms per Cubic Meter [25-04-01] Kilograms per Cubic Meter
KD	Kilograms Decimal

	[25-04-01] Kilograms Decimal
KE	Keg A unit of weight equal to 100 pounds, used for nails
	[25-04-01] Keg
KF	Kilopackets Kilopackets of data transmitted
	[25-04-01] Kilopackets
KG	Kilogram
	[25-04-01] Kilogram
KH	Kilowatt Hour
	[25-04-01] Kilowatt Hour
KI	Kilograms/Millimeter Width
	[25-04-01] Kilograms/Millimeter Width
KJ	Kilosegments Kilosegments of data transmitted
	[25-04-01] Kilosegments
KK	100 Kilograms
	[25-04-01] 100 Kilograms
KL	Kilograms/Meter
	[25-04-01] Kilograms/Meter
KM	Kilograms per Square Meter, Kilograms, Decimal
	[25-04-01] 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
	[25-04-01] Millequivalence Caustic Potash per Gram of Product
KP	Kilometers Per Hour
	[25-04-01] Kilometers Per Hour
KQ	Kilopascal Represents pressure
	[25-04-01] Kilopascal
KR	Kiloroentgen Measure of radiation
	[25-04-01] Kiloroentgen
KS	1000 Pounds per Square Inch
	[25-04-01] 1000 Pounds per Square Inch
KT	Kit
	[25-04-01] Kit
KU	Task
	[25-04-01] Task
KV	Kelvin
	[25-04-01] Kelvin
KW	Kilograms per Millimeter
	[25-04-01] Kilograms per Millimeter
KX	Milliliters per Kilogram
	[25-04-01] Milliliters per Kilogram
L2	Liters Per Minute Measure of the rate of flow
	[25-04-01] Liters Per Minute
LA	Pounds Per Cubic Inch

	[25-04-01] Pounds Per Cubic Inch
LB	Pound
	[25-04-01] Pound
LC	Linear Centimeter
	[25-04-01] Linear Centimeter
LE	Lite
	[25-04-01] Lite
LF	Linear Foot
	[25-04-01] Linear Foot
LG	Long Ton
	2240 pounds as used in the U.K.
	[25-04-01] Long Ton
LH	Labor Hours
	[25-04-01] Labor Hours
LI	Linear Inch
	[25-04-01] Linear Inch
LJ	Large Spray
	[25-04-01] Large Spray
LK	Link
	[25-04-01] Link
LL	Lifetime
	A duration ending with the death of the individual
	[25-04-01] Lifetime
LM	Linear Meter
	[25-04-01] Linear Meter
LN	Length
	[25-04-01] Length
LO	Lot
	[25-04-01] Lot
LP	Liquid Pounds
	[25-04-01] Liquid Pounds
LQ	Liters Per Day
	Measure of liquid flow over a given time period
	[25-04-01] Liters Per Day
LR	Layer(s)
	[25-04-01] Layer(s)
LS	Lump Sum
	[25-04-01] Lump Sum
LT	Liter
	[25-04-01] Liter
LX	Linear Yards Per Pound
	[25-04-01] Linear Yards Per Pound
LY	Linear Yard
	[25-04-01] Linear Yard
M0	Magnetic Tapes
	Number of Magnetic Tapes delivered with data
	[25-04-01] Magnetic Tapes
M1	Milligrams per Liter
	[25-04-01] Milligrams per Liter
M2	Millimeter-Actual
	[25-04-01] Millimeter-Actual

M3	Mat [25-04-01] Mat
M4	Monetary Value [25-04-01] Monetary Value
M5	Microcurie [25-04-01] Microcurie
M6	Millibar [25-04-01] Millibar
M7	Micro Inch [25-04-01] Micro Inch
M8	Mega Pascals [25-04-01] 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 [25-04-01] Million British Thermal Units per One Thousand Cubic Feet
MA	Machine/Unit [25-04-01] Machine/Unit
MB	Millimeter-Nominal [25-04-01] Millimeter-Nominal
MC	Microgram [25-04-01] Microgram
MD	Air Dry Metric Ton [25-04-01] Air Dry Metric Ton
ME	Milligram [25-04-01] Milligram
MF	Milligram per Sq. Ft. per Side [25-04-01] Milligram per Sq. Ft. per Side
MG	Metric Gross Ton [25-04-01] Metric Gross Ton
MH	Microns (Micrometers) 1/1,000,000 meter [25-04-01] Microns (Micrometers)
MI	Metric [25-04-01] Metric
MJ	Minutes [25-04-01] Minutes
MK	Milligrams Per Square Inch [25-04-01] Milligrams Per Square Inch
ML	Milliliter [25-04-01] Milliliter
MM	Millimeter [25-04-01] Millimeter
MN	Metric Net Ton [25-04-01] Metric Net Ton
MO	Months [25-04-01] Months
MP	Metric Ton [25-04-01] Metric Ton
MQ	1000 Meters

	[25-04-01] 1000 Meters
MR	Meter
	[25-04-01] Meter
MS	Square Millimeter
	[25-04-01] Square Millimeter
MT	Metric Long Ton
	[25-04-01] Metric Long Ton
MU	Millicurie
	[25-04-01] Millicurie
MV	Number of Mults
	[25-04-01] Number of Mults
MW	Metric Ton Kilograms
	[25-04-01] Metric Ton Kilograms
MX	Mixed
	[25-04-01] Mixed
MY	Millimeter-Average
	[25-04-01] Millimeter-Average
MZ	Millimeter-minimum
	[25-04-01] Millimeter-minimum
N1	Pen Calories
	Daily calories prescribed to be taken for parenteral/enteral therapy
	[25-04-01] Pen Calories
N2	Number of Lines
	[25-04-01] Number of Lines
N3	Print Point
	A print point is approximately .0138"
	[25-04-01] Print Point
N4	Pen Grams (Protein)
	Grams of amino acids prescribed to be taken for parenteral/enteral therapy
	[25-04-01] Pen Grams (Protein)
N6	Megahertz
	One million cycles per second
	[25-04-01] Megahertz
N7	Parts
	[25-04-01] Parts
N9	Cartridge Needle
	Used with auto-injector units only, a disposable, filled cartridge that includes a needle
	[25-04-01] Cartridge Needle
NA	Milligrams per Kilogram
	[25-04-01] Milligrams per Kilogram
NB	Barge
	[25-04-01] Barge
NC	Car
	[25-04-01] Car
ND	Net Barrels
	[25-04-01] Net Barrels
NE	Net Liters
	[25-04-01] Net Liters
NF	Messages

	Number of Messages transmitted, or delivered
	[25-04-01] Messages
NG	Net Gallons
	[25-04-01] Net Gallons
NH	Message Hours
	Number of hours used, calculated at some rate basis such as Minutes/message carried
	[25-04-01] Message Hours
NI	Net Imperial Gallons
	[25-04-01] Net Imperial Gallons
NJ	Number of Screens
	Number of data screens handled, or transmitted
	[25-04-01] Number of Screens
NL	Load
	[25-04-01] Load
NM	Nautical Mile
	[25-04-01] Nautical Mile
NN	Train
	[25-04-01] 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
	[25-04-01] Mho
NR	Micro Mho
	The typical unit of electrical conductivity measurement - one millionth of an Mho
	[25-04-01] Micro Mho
NS	Short Ton
	Two thousand pounds
	[25-04-01] Short Ton
NT	Trailer
	[25-04-01] Trailer
NU	Newton-Meter
	Unit of energy or torque
	[25-04-01] Newton-Meter
NV	Vehicle
	[25-04-01] 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
	[25-04-01] Newton
NX	Parts Per Thousand
	[25-04-01] Parts Per Thousand
NY	Pounds Per Air-Dry Metric Ton
	A measure of chemical addition rate during manufacture and product constituent analysis
	[25-04-01] Pounds Per Air-Dry Metric Ton
OA	Panel
	[25-04-01] Panel
OC	Billboard

	[25-04-01] Billboard
ON	Ounces per Square Yard
	[25-04-01] Ounces per Square Yard
OP	Two pack
	[25-04-01] Two pack
OT	Overtime Hours
	[25-04-01] Overtime Hours
OZ	Ounce - Av
	[25-04-01] Ounce - Av
P0	Pages - Electronic
	Number of electronic pages of data delivered
	[25-04-01] Pages - Electronic
P1	Percent
	[25-04-01] Percent
P2	Pounds per Foot
	[25-04-01] Pounds per Foot
P3	Three pack
	[25-04-01] Three pack
P4	Four-pack
	[25-04-01] Four-pack
P5	Five-pack
	[25-04-01] Five-pack
P6	Six pack
	[25-04-01] Six pack
P7	Seven pack
	[25-04-01] Seven pack
P8	Eight-pack
	[25-04-01] Eight-pack
P9	Nine pack
	[25-04-01] Nine pack
PA	Pail
	[25-04-01] Pail
PB	Pair Inches
	[25-04-01] Pair Inches
PC	Piece
	[25-04-01] Piece
PD	Pad
	[25-04-01] Pad
PE	Pounds Equivalent
	[25-04-01] Pounds Equivalent
PF	Pallet (Lift)
	[25-04-01] Pallet (Lift)
PG	Pounds Gross
	[25-04-01] Pounds Gross
PH	Pack (PAK)
	[25-04-01] Pack (PAK)
PI	Pitch
	[25-04-01] Pitch
PJ	Pounds, Decimal - Pounds per Square Foot - Pound Gage
	[25-04-01] Pounds, Decimal - Pounds per Square Foot - Pound Gage

PK	Package [25-04-01] Package
PL	Pallet/Unit Load [25-04-01] Pallet/Unit Load
PM	Pounds-Percentage [25-04-01] Pounds-Percentage
PN	Pounds Net [25-04-01] Pounds Net
PO	Pounds per Inch of Length [25-04-01] Pounds per Inch of Length
PP	Plate [25-04-01] Plate
PQ	Pages per Inch [25-04-01] Pages per Inch
PR	Pair [25-04-01] Pair
PS	Pounds per Sq. Inch [25-04-01] Pounds per Sq. Inch
PT	Pint [25-04-01] Pint
PU	Mass Pounds [25-04-01] Mass Pounds
PV	Half Pint [25-04-01] Half Pint
PW	Pounds per Inch of Width [25-04-01] Pounds per Inch of Width
PX	Pint, Imperial [25-04-01] Pint, Imperial
PY	Peck, Dry U.S. [25-04-01] Peck, Dry U.S.
PZ	Peck, Dry Imperial [25-04-01] Peck, Dry Imperial
Q1	Quarter (Time) [25-04-01] Quarter (Time)
Q2	Pint U.S. Dry Volume equal to 33.6003125 cubic inches [25-04-01] Pint U.S. Dry
Q3	Meal A group of food items packaged together for human consumption [25-04-01] Meal
Q4	Fifty A unit of issue in which a group of 50 items are consolidated and measured as a single entity [25-04-01] Fifty
Q5	Twenty-Five A unit of issue in which a group of 25 items are consolidated and measured as a single entity [25-04-01] Twenty-Five
Q6	Thirty-Six A unit of issue in which a group of 36 items are consolidated and measured as a single entity

	[25-04-01] Thirty-Six
Q7	Twenty-Four A unit of issue in which a group of 24 items are consolidated and measured as a single entity
	[25-04-01] Twenty-Four
QA	Pages - Facsimile Number of FAX pages transmitted
	[25-04-01] Pages - Facsimile
QB	Pages - Hardcopy Number of printed pages delivered
	[25-04-01] Pages - Hardcopy
QC	Channel
	[25-04-01] Channel
QD	Quarter Dozen
	[25-04-01] Quarter Dozen
QE	Photographs
	[25-04-01] Photographs
QH	Quarter Hours Number of 15 minute increments of usage handled
	[25-04-01] Quarter Hours
QK	Quarter Kilogram A unit of metric weight equal to 250 grams
	[25-04-01] Quarter Kilogram
QR	Quire
	[25-04-01] Quire
QS	Quart, Dry U.S.
	[25-04-01] Quart, Dry U.S.
QT	Quart
	[25-04-01] Quart
QU	Quart, Imperial
	[25-04-01] 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)
	[25-04-01] Pica
R2	Becquerel Unit of radiation equal to 3.7×10^{10} of a curie
	[25-04-01] Becquerel
R3	Revolutions Per Minute
	[25-04-01] 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
	[25-04-01] Calorie
R5	Thousands of Dollars
	[25-04-01] Thousands of Dollars
R6	Millions of Dollars
	[25-04-01] Millions of Dollars
R7	Billions of Dollars

	[25-04-01] Billions of Dollars
R8	Roentgen Equivalent in Man (REM)
	[25-04-01] Roentgen Equivalent in Man (REM)
R9	Thousand Cubic Meters
	[25-04-01] Thousand Cubic Meters
RA	Rack
	[25-04-01] Rack
RB	Radian
	[25-04-01] Radian
RC	Rod (area) - 16.25 Square Yards
	[25-04-01] Rod (area) - 16.25 Square Yards
RD	Rod (length) - 5.5 Yards
	[25-04-01] Rod (length) - 5.5 Yards
RE	Reel
	[25-04-01] Reel
RG	Ring
	[25-04-01] Ring
RH	Running or Operating Hours
	Measure of accumulated time of machine or piece of equipment has been running
	[25-04-01] Running or Operating Hours
RK	Roll-Metric Measure
	[25-04-01] Roll-Metric Measure
RL	Roll
	[25-04-01] Roll
RM	Ream
	[25-04-01] Ream
RN	Ream-Metric Measure
	[25-04-01] Ream-Metric Measure
RO	Round
	[25-04-01] Round
RP	Pounds per Ream
	[25-04-01] Pounds per Ream
RS	Resets
	Number of times a transmission is reset due to line drop, interrupt, etc.
	[25-04-01] Resets
RT	Revenue Ton Miles
	One ton of revenue-generating freight moving one mile
	[25-04-01] Revenue Ton Miles
RU	Run
	[25-04-01] Run
S1	Semester
	[25-04-01] Semester
S2	Trimester
	[25-04-01] Trimester
S3	Square Feet per Second
	[25-04-01] Square Feet per Second
S4	Square Meters per Second
	[25-04-01] Square Meters per Second
S5	Sixty-fourths of an Inch
	[25-04-01] Sixty-fourths of an Inch

S6	Sessions Number of interactive sessions handled [25-04-01] Sessions
S7	Storage Units Number of storage increments used [25-04-01] Storage Units
S8	Standard Advertising Units (SAUs) A predefined partition of advertising page consisting of column-inch multiples [25-04-01] Standard Advertising Units (SAUs)
S9	Slip Sheet A cardboard platform used for holding product for storage or transportation [25-04-01] Slip Sheet
SA	Sandwich [25-04-01] Sandwich
SB	Square Mile [25-04-01] Square Mile
SC	Square Centimeter [25-04-01] Square Centimeter
SD	Solid Pounds [25-04-01] Solid Pounds
SE	Section 640 acres or one square mile [25-04-01] Section
SF	Square Foot [25-04-01] Square Foot
SG	Segment [25-04-01] Segment
SH	Sheet [25-04-01] Sheet
SI	Square Inch [25-04-01] Square Inch
SJ	Sack [25-04-01] Sack
SK	Split Tanktruck [25-04-01] Split Tanktruck
SL	Sleeve [25-04-01] Sleeve
SM	Square Meter [25-04-01] Square Meter
SN	Square Rod [25-04-01] Square Rod
SO	Spool [25-04-01] Spool
SP	Shelf Package [25-04-01] Shelf Package
SQ	Square A unit of measure for roofing materials equal to 100 square feet [25-04-01] Square
SR	Strip

	[25-04-01] Strip
SS	Sheet-Metric Measure
	[25-04-01] Sheet-Metric Measure
ST	Set
	[25-04-01] Set
SV	Skid
	[25-04-01] Skid
SW	Skein
	[25-04-01] Skein
SX	Shipment
	[25-04-01] Shipment
SY	Square Yard
	[25-04-01] Square Yard
SZ	Syringe
	Glass or plastic barrels used to administer fluid medication under the skin, into a vein artery, or into a muscle
	[25-04-01] Syringe
T0	Telecommunications Lines in Service
	Snapshot sample of lines in service
	[25-04-01] Telecommunications Lines in Service
T1	Thousand pounds gross
	[25-04-01] Thousand pounds gross
T2	Thousandths of an Inch
	[25-04-01] Thousandths of an Inch
T3	Thousand Pieces
	[25-04-01] Thousand Pieces
T4	Thousand Bags
	[25-04-01] Thousand Bags
T5	Thousand Casings
	[25-04-01] Thousand Casings
T6	Thousand Gallons
	[25-04-01] Thousand Gallons
T7	Thousand Impressions
	[25-04-01] Thousand Impressions
T8	Thousand Linear Inches
	[25-04-01] Thousand Linear Inches
T9	Thousand Kilowatt Hours
	[25-04-01] Thousand Kilowatt Hours
TA	Tenth Cubic Foot
	[25-04-01] Tenth Cubic Foot
TB	Tube
	[25-04-01] Tube
TC	Truckload
	[25-04-01] Truckload
TD	Therms
	[25-04-01] Therms
TE	Tote
	[25-04-01] Tote
TF	Ten Square Yards
	[25-04-01] Ten Square Yards

TG	Gross Ton [25-04-01] Gross Ton
TH	Thousand [25-04-01] Thousand
TI	Thousand Square Inches [25-04-01] Thousand Square Inches
TJ	Thousand Sq. Centimeters [25-04-01] Thousand Sq. Centimeters
TK	Tank [25-04-01] Tank
TL	Thousand Feet (Linear) [25-04-01] Thousand Feet (Linear)
TM	Thousand Feet (Board) [25-04-01] Thousand Feet (Board)
TN	Net Ton (2,000 LB). [25-04-01] Net Ton (2,000 LB).
TO	Troy Ounce [25-04-01] Troy Ounce
TP	Ten-pack [25-04-01] Ten-pack
TQ	Thousand Feet [25-04-01] Thousand Feet
TR	Ten Square Feet [25-04-01] Ten Square Feet
TS	Thousand Square Feet [25-04-01] Thousand Square Feet
TT	Thousand Linear Meters [25-04-01] Thousand Linear Meters
TU	Thousand Linear Yards [25-04-01] Thousand Linear Yards
TV	Thousand Kilograms [25-04-01] Thousand Kilograms
TW	Thousand Sheets [25-04-01] Thousand Sheets
TX	Troy Pound [25-04-01] Troy Pound
TY	Tray [25-04-01] Tray
TZ	Thousand Cubic Feet [25-04-01] Thousand Cubic Feet
U1	Treatments [25-04-01] Treatments
U2	Tablet A compressed or molded block of solid material; a collection of sheet paper glued together at one edge [25-04-01] Tablet
U3	Ten 10 each of an item of supply [25-04-01] Ten
U5	Two Hundred Fifty 250 each of an item of supply

	[25-04-01] Two Hundred Fifty
UA	Torr Pressure
	[25-04-01] Torr
UB	Telecommunications Lines in Service - Average Average number of lines in service specific to equal access requirements
	[25-04-01] Telecommunications Lines in Service - Average
UC	Telecommunications Ports Number of network access ports
	[25-04-01] Telecommunications Ports
UD	Tenth Minutes Number of 6 second increments of usage
	[25-04-01] Tenth Minutes
UE	Tenth Hours Number of 6 minute increments of usage
	[25-04-01] Tenth Hours
UF	Usage per Telecommunications Line - Average [25-04-01] Usage per Telecommunications Line - Average
UH	Ten Thousand Yards [25-04-01] Ten Thousand Yards
UL	Unitless Unit of Measure for properties or test results without units of measure
	[25-04-01] Unitless
UM	Million Units Measure used to indicate large quantities in multiples of one million
	[25-04-01] Million Units
UN	Unit [25-04-01] Unit
UP	Troche A flat, round, tablet made of a medicinal substance
	[25-04-01] Troche
UQ	Wafer A light, thin, crisp, cake
	[25-04-01] Wafer
UR	Application An action of putting something into material contact
	[25-04-01] Application
US	Dosage Form [25-04-01] Dosage Form
UT	Inhalation [25-04-01] Inhalation
UU	Lozenge [25-04-01] Lozenge
UV	Percent Topical Only A measure of medication intended only for external use
	[25-04-01] Percent Topical Only
UW	Milliequivalent [25-04-01] Milliequivalent

UX	Dram (Minim) [25-04-01] Dram (Minim)
UY	Fifty Square Feet [25-04-01] Fifty Square Feet
UZ	Fifty Count [25-04-01] Fifty Count
V1	Flat A shallow rectangular container frequently used for fruits and vegetables [25-04-01] Flat
V2	Pouch [25-04-01] Pouch
VA	Volt-ampere per Kilogram [25-04-01] Volt-ampere per Kilogram
VC	Five Hundred 500 each of an item of supply [25-04-01] Five Hundred
VI	Vial [25-04-01] Vial
VP	Percent Volume [25-04-01] Percent Volume
VR	Volt-ampere-reactive [25-04-01] Volt-ampere-reactive
VS	Visit A quantitative measure of the number of visits to a provider by the patient [25-04-01] Visit
W2	Wet Kilo Weight of product plus liquid solution [25-04-01] Wet Kilo
WA	Watts per Kilogram [25-04-01] Watts per Kilogram
WB	Wet Pound [25-04-01] Wet Pound
WD	Work Days [25-04-01] Work Days
WE	Wet Ton [25-04-01] Wet Ton
WG	Wine Gallon [25-04-01] Wine Gallon
WH	Wheel [25-04-01] Wheel
WI	Weight per Square Inch [25-04-01] Weight per Square Inch
WK	Week [25-04-01] Week
WM	Working Months [25-04-01] Working Months
WP	Pennyweight [25-04-01] Pennyweight
WR	Wrap [25-04-01] Wrap

WW	Milliliters of Water [25-04-01] Milliliters of Water
X1	Chains (Land Survey) [25-04-01] Chains (Land Survey)
X2	Bunch A measure used to identify a group of like items grown or fastened together [25-04-01] Bunch
X3	Clove A measure used to identify a section of a separate bulb [25-04-01] Clove
X4	Drop The smallest quantity of liquid heavy enough to form a spherical mass [25-04-01] Drop
X5	Head A measure used for a rounded, compact mass of leaves, buds or flowers [25-04-01] Head
X6	Heart A measure used to identify the central or innermost physical part [25-04-01] Heart
X7	Leaf A measure used to identify a usually green flattened structure of vascular plants processed for a particular purpose [25-04-01] Leaf
X8	Loaf A shaped mass of food cooked or prepared in one piece [25-04-01] Loaf
X9	Portion A measure used to identify a section or quantity within a larger thing [25-04-01] Portion
XP	Base Box per Pound [25-04-01] Base Box per Pound
Y1	Slice A measure used to identify a thin broad piece cut from a larger object [25-04-01] Slice
Y2	Tablespoon A measure equal to three teaspoons or a half fluid ounce [25-04-01] Tablespoon
Y3	Teaspoon A measure equal to five milliliters or one third tablespoon [25-04-01] Teaspoon
Y4	Tub A measure used to identify a storage container [25-04-01] Tub
YD	Yard [25-04-01] Yard
YL	100 Lineal Yards

	[25-04-01] 100 Lineal Yards
YR	Years
	[25-04-01] Years
YT	Ten Yards
	[25-04-01] Ten Yards
Z1	Lift Van
	[25-04-01] Lift Van
Z2	Chest
	[25-04-01] Chest
Z3	Cask
	[25-04-01] Cask
Z4	Hogshead
	[25-04-01] Hogshead
Z5	Lug
	[25-04-01] Lug
Z6	Conference Points
	A participant on a conference call
	[25-04-01] Conference Points
Z8	Newspaper Agate Line
	[25-04-01] Newspaper Agate Line
ZA	Bimonthly
	[25-04-01] Bimonthly
ZB	Biweekly
	[25-04-01] Biweekly
ZC	Semiannual
	[25-04-01] Semiannual
ZP	Page
	[25-04-01] Page
ZZ	Mutually Defined
	[25-04-01] Mutually Defined

C00102	1018	Exponent	O R 1/15
		Power to which a unit is raised	
C00103	649	Multiplier	O R 1/10
		Value to be used as a multiplier to obtain a new value	
C00104	355	Unit or Basis for Measurement Code	O ID 2/2
		Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken	
		Refer to 004010 Data Element Dictionary for acceptable code values.	
C00105	1018	Exponent	O R 1/15
		Power to which a unit is raised	
C00106	649	Multiplier	O R 1/10
		Value to be used as a multiplier to obtain a new value	
C00107	355	Unit or Basis for Measurement Code	O ID 2/2
		Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken	
		Refer to 004010 Data Element Dictionary for acceptable code values.	
C00108	1018	Exponent	O R 1/15
		Power to which a unit is raised	
C00109	649	Multiplier	O R 1/10
		Value to be used as a multiplier to obtain a new value	
C00110	355	Unit or Basis for Measurement Code	O ID 2/2
		Code specifying the units in which a value is being expressed, or manner in	

			which a measurement has been taken Refer to 004010 Data Element Dictionary for acceptable code values.	
	C00111	1018	Exponent Power to which a unit is raised	O R 1/15
	C00112	649	Multiplier Value to be used as a multiplier to obtain a new value	O R 1/10
	C00113	355	Unit or Basis for Measurement Code Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken Refer to 004010 Data Element Dictionary for acceptable code values.	O ID 2/2
	C00114	1018	Exponent Power to which a unit is raised	O R 1/15
	C00115	649	Multiplier Value to be used as a multiplier to obtain a new value	O R 1/10
X	MEA05	740	Range Minimum	X R 1/20
X	MEA06	741	Range Maximum	X R 1/20
X	MEA07	935	Measurement Significance Code Refer to 004010 Data Element Dictionary for acceptable code values.	O ID 2/2
X	MEA08	936	Measurement Attribute Code Refer to 004010 Data Element Dictionary for acceptable code values.	X ID 2/2
X	MEA09	752	Surface/Layer/Position Code Refer to 004010 Data Element Dictionary for acceptable code values.	O ID 2/2
X	MEA10	1373	Measurement Method or Device Refer to 004010 Data Element Dictionary for acceptable code values.	O ID 2/4

Segment: **L4** Measurement
Position: 177
Loop: L0 Optional
Level: Detail
Usage: Optional
Max Use: 1
Purpose: To describe physical dimensions and quantities
Syntax Notes:
Semantic Notes: 1 L406 is the Rounding in Pattern for dimensional shipments.
Comments:
Notes:

[27] L4 SEGMENT - Shipping Dimensions for Oversized Cargo
 SEGMENT CONDITION: Shipping Dimensions for Oversized Cargo required for oversized (usually flat rack or open top) cargo. Not required if shipping a standard 40-foot container.

Data Element Summary

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
M	L401	82	Length Largest horizontal dimension of an object measured when the object is in the upright position [27-01] Oversized Cargo Length	M R 1/8
M	L402	189	Width Shorter measurement of the two horizontal dimensions measured with the object in the upright position [27-02] Oversized Cargo Width	M R 1/8
M	L403	65	Height Vertical dimension of an object measured when the object is in the upright position [27-03] Oversized Cargo Height	M R 1/8
M	L404	90	Measurement Unit Qualifier Code specifying the linear dimensional unit [27-04] Measurement Unit Qualifier N Inches [27-04] Inches	M ID 1/1
	L405	380	Quantity Numeric value of quantity [27-05] Oversized Cargo Quantity	O R 1/15
X	L406	1271	Industry Code	O AN 1/30

Segment: **L5** Description, Marks and Numbers
Position: 185
Loop: L0 Optional
Level: Detail
Usage: Optional (Must Use)
Max Use: 999
Purpose: To specify the line item in terms of description, quantity, packaging, and marks and numbers

- Syntax Notes:**
- 1 If either L503 or L504 is present, then the other is required.
 - 2 If L507 is present, then L506 is required.
 - 3 If either L508 or L509 is present, then the other is required.

Semantic Notes:

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

Notes: [28] L5 SEGMENT - Description of Articles

[29] L5 SEGMENT - Privately Owned Vehicle

SEGMENT CONDITION: Required if shipping a Privately Owned Vehicle.

Data Element Summary

Ref.	Data			
<u>Des.</u>	<u>Element</u>	<u>Name</u>	<u>Attributes</u>	
>>	L501	213	Lading Line Item Number	O N0 1/3
			Sequential line number for a lading item	
			[28-01] Lading Line Item Number	
>>	L502	79	Lading Description	O AN 1/50
			Description of an item as required for rating and billing purposes	
			[28-02] Lading Description	
			Clear text description of the unit of sale being shipped.	
			[29-02] Privately Owned Vehicle Make	
>>	L503	22	Commodity Code	X AN 1/30
			Code describing a commodity or group of commodities	
			[28-03] Commodity Code	
>>	L504	23	Commodity Code Qualifier	X ID 1/1
			Code identifying the commodity coding system used for Commodity Code	
			[28-04] Commodity Code Qualifier	
		F	National Stock Number	
			[28-04] National Stock Number	
		I	Milstamp AITC or Water Commodity Code	
			[28-04] Milstamp AITC or Water Commodity Code	
		N	National Motor Freight Classification (NMFC)	
			[28-04] National Motor Freight Classification (NMFC)	
		U	Uniform Freight Classification (UFC)	
			[28-04] Uniform Freight Classification (UFC)	
		Z	Mutually defined	
			[28-04] Mutually defined	
X	L505	103	Packaging Code	O AN 3/5
			Refer to 004010 Data Element Dictionary for acceptable code values.	
	L506	87	Marks and Numbers	X AN 1/48
			Marks and numbers used to identify a shipment or parts of a shipment	
			[28-06] Marks and Numbers	
			[29-06] Privately Owned Vehicle Color	
X	L507	88	Marks and Numbers Qualifier	O ID 1/2
			Refer to 004010 Data Element Dictionary for acceptable code values.	
X	L508	23	Commodity Code Qualifier	X ID 1/1
			Refer to 004010 Data Element Dictionary for acceptable code values.	

X	L509	22	Commodity Code	X	AN 1/30
X	L510	595	Compartment ID Code	O	ID 1/1

Refer to 004010 Data Element Dictionary for acceptable code values.

Segment: **L12** Alternate Lading Description
Position: 190
Loop: L0 Optional
Level: Detail
Usage: Optional
Max Use: 20
Purpose: To provide lading description beyond what is required for rating and billing purposes
Syntax Notes:
Semantic Notes:
Comments:
Notes:

[30] L12 SEGMENT - Additional Remarks
 SEGMENT CONDITION: Two occurrences of this segment are allowed if needed for providing Additional Remarks on a line item.

Data Element Summary

	<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
X	L1201	592	Lading Description Qualifier	O ID 1/1
			Refer to 004010 Data Element Dictionary for acceptable code values.	
>>	L1202	352	Description	O AN 1/80
			A free-form description to clarify the related data elements and their content	
			[30-02] Additional Remarks	
			Free-form text for additional line item remarks or handling instructions.	

Segment: **N9 Reference Identification**
Position: 195
Loop: L0 Optional
Level: Detail
Usage: Optional (Must Use)
Max Use: 100
Purpose: To transmit identifying information as specified by the Reference Identification Qualifier
Syntax Notes:

- 1 At least one of N902 or N903 is required.
- 2 If N906 is present, then N905 is required.
- 3 If either C04003 or C04004 is present, then the other is required.
- 4 If either C04005 or C04006 is present, then the other is required.

Semantic Notes:

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

Comments:
Notes:

[31] N9 SEGMENT - Content Level TCN
[32] N9 SEGMENT - Transportation Tracking Number (TTN)
[33] N9 SEGMENT - DoD Identification Code (DoDIC)
SEGMENT CONDITION: DoDIC is required for all ammunition and explosives. (Also called Navy Ammunition Logistics Code (NALC).) Required for DTTS if the hazardous shipment contains ammunition.

Data Element Summary

<u>Ref.</u>	<u>Data</u>	<u>Element</u>	<u>Name</u>	<u>Attributes</u>
M	N901	128	Reference Identification Qualifier Code qualifying the Reference Identification [31-01] TCN Qualifier [32-01] Transportation Tracking Number (TTN) Qualifier [33-01] DoDIC Qualifier	M ID 2/3
		18	Plan Number The unique identification number assigned for a defined contribution plan [32-01] Plan Number Use '18' to denote Transportation Tracking Number (TTN)	
		1I	Department of Defense Identification Code (DoDIC) Qualifies a code that uniquely identifies a type of explosive or ammunition [33-01] Department of Defense Identification Code (DoDIC)	
		TG	Transportation Control Number (TCN) [31-01] Transportation Control Number (TCN)	
>>	N902	127	Reference Identification Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier [31-02] Content Level TCN Enter Content Level TCN. Container TCN is in Table 1 N9 segment. [32-02] Transportation Tracking Number (TTN) [33-02] DoDIC	X AN 1/30
X	N903	369	Free-form Description	X AN 1/45
X	N904	373	Date	O DT 8/8
X	N905	337	Time	X TM 4/8
X	N906	623	Time Code Refer to 004010 Data Element Dictionary for acceptable code values.	O ID 2/2
X	N907	C040	Reference Identifier To identify one or more reference numbers or identification numbers as specified by the Reference Qualifier	O

X	C04001	128	Reference Identification Qualifier Code qualifying the Reference Identification Refer to 004010 Data Element Dictionary for acceptable code values.	M ID 2/3
X	C04002	127	Reference Identification Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	M AN 1/30
X	C04003	128	Reference Identification Qualifier Code qualifying the Reference Identification Refer to 004010 Data Element Dictionary for acceptable code values.	X ID 2/3
X	C04004	127	Reference Identification Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	X AN 1/30
X	C04005	128	Reference Identification Qualifier Code qualifying the Reference Identification Refer to 004010 Data Element Dictionary for acceptable code values.	X ID 2/3
X	C04006	127	Reference Identification Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	X AN 1/30

Segment: **H1 Hazardous Material**
Position: 270
Loop: H1 Optional
Level: Detail
Usage: Optional
Max Use: 1
Purpose: To specify information relative to hazardous material
Syntax Notes: 1 If either H107 or H108 is present, then the other is required.
Semantic Notes:
Comments: 1 This segment is required when the shipment contains hazardous material.
 2 H107 is the lowest temperature for hazardous materials.
Notes: [34] H1 SEGMENT - HAZMAT Information
 LOOP CONDITION: This segment begins the HAZMAT loop, which is required only if the shipment contains hazardous material. The loop may occur only once per line item.

Data Element Summary

Ref.	Data	Name	Attributes
<u>Des.</u>	<u>Element</u>	<u>Name</u>	<u>Attributes</u>
M	H101	62 Hazardous Material Code	M AN 4/10
		Code relating to hazardous material code qualifier for regulated hazardous materials	
		[34-01] HAZMAT - UN/NA Identification Code	
		Contains the United Nations/North America (UN/NA) code. Value 'UN' appears in the first two positions for UN codes. Value 'NA' appears in the first two positions for 'NA' codes.	
		SOURCE: Hazardous Material Code (49 Level) available from Tariff Publishing Officer; Tariff 6D - Official Regulations on Restricted Articles available from Airline Tariff Publishing Co.; Code of Federal Regulations CFR Title 46 available from Superintendent of Documents U.S. Government Printing Office; U.S. Government Printing Office available from Intergovernmental Maritime Consultative Organization (IMCO); IATA Restricted Articles Regulations available from International Air Transport Association; Code of Federal Regulations, Transportation. Title 49, parts 100 to 177, pages 75-170 available from Superintendent of Documents U.S. Government Printing Office; "Transportation of Dangerous Goods", Recommendations of the Committee of Experts of the Transport of Dangerous Goods available from Sales No: 200 89.10.E International Maritime Organization	
X	H102	209 Hazardous Material Class Code	O AN 1/4
X	H103	208 Hazardous Material Code Qualifier	O ID 1/1
		Refer to 004010 Data Element Dictionary for acceptable code values.	
	H104	64 Hazardous Material Description	O AN 2/30
		Material name, special instructions, and phone number if any	
		[34-04] HAZMAT - Description	
		Use the UN/NA description.	
		SOURCE: Hazardous Material Code (49 Level) available from Tariff Publishing Officer; Tariff 6D - Official Regulations on Restricted Articles available from Airline Tariff Publishing Co.; Code of Federal Regulations CFR Title 46 available from Superintendent of Documents U.S. Government Printing Office; U.S. Government Printing Office available from Intergovernmental Maritime Consultative Organization (IMCO); IATA Restricted Articles Regulations available from International Air Transport Association; Code of Federal Regulations, Transportation. Title 49, parts 100 to 177, pages 75-170 available from Superintendent of Documents U.S. Government Printing Office; "Transportation of Dangerous Goods", Recommendations of the Committee of Experts of the Transport of Dangerous Goods available from Sales No: 200 89.10.E International Maritime Organization	
	H105	63 Hazardous Material Contact	O AN 1/24

			Phone number and name of person or department to contact in case of emergency	
			[34-05] HAZMAT - Hazardous Material Contact	
			Phone number and name of person or activity to contact in case of emergency.	
X	H106	200	Hazardous Materials Page	O AN 1/6
	H107	77	Flashpoint Temperature	X N0 1/3
			The flashpoint temperature for hazardous material	
			[34-07] HAZMAT - Flashpoint Temperature (Fahrenheit only.)	
	H108	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	
			[34-08] HAZMAT - Flashpoint Qualifier	
			ELEMENT CONDITION: Required if H107 is used.	
			FA Fahrenheit	
			[34-08] Fahrenheit	
X	H109	254	Packing Group Code	O ID 1/3

Segment: **H2 Additional Hazardous Material Description**
Position: 280
Loop: H1 Optional
Level: Detail
Usage: Optional
Max Use: 10
Purpose: To specify free-form hazardous material descriptive data in addition to the information provided in the H1 segment

Syntax Notes:
Semantic Notes:
Comments:
Notes:

[35] H2 SEGMENT - HAZMAT Class/Division & Description
 SEGMENT CONDITION: Segment required for HAZMAT shipment.

Data Element Summary

	<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
M	H201	64	Hazardous Material Description	M AN 2/30
			Material name, special instructions, and phone number if any	
			[35-01] HAZMAT - Description	
			Use this element for clear text description for mandatory hazmat reporting, such as English and metric net explosive weights, ammunition round count, or number of hazardous pieces.	
			SOURCE: Hazardous Material Code (49 Level) available from Tariff Publishing Officer; Tariff 6D - Official Regulations on Restricted Articles available from Airline Tariff Publishing Co.; Code of Federal Regulations CFR Title 46 available from Superintendent of Documents U.S. Government Printing Office; U.S. Government Printing Office available from Intergovernmental Maritime Consultative Organization (IMCO); IATA Restricted Articles Regulations available from International Air Transport Association; Code of Federal Regulations, Transportation. Title 49, parts 100 to 177, pages 75-170 available from Superintendent of Documents U.S. Government Printing Office; "Transportation of Dangerous Goods", Recommendations of the Committee of Experts of the Transport of Dangerous Goods available from Sales No: 200 89.10.E International Maritime Organization	
	H202	274	Hazardous Material Classification	O AN 1/30
			Free-form description of hazardous material classification or division or label requirements	
			[35-02] HAZMAT - Class/Division	
			Clear text. Include additional required information such as DOT explosive approval number (EX number), competent authority approval number, DOT exemption (DOT-E) number, International Maritime Dangerous Good Code (IMDG), or whether NOS regulatory requirements apply.	

Segment: **N1** Name
Position: 380
Loop: N1 Optional
Level: Detail
Usage: Optional
Max Use: 1
Purpose: To identify a party by type of organization, name, and code
Syntax Notes: 1 At least one of N102 or N103 is required.
 2 If either N103 or N104 is present, then the other is required.
Semantic Notes:
Comments: 1 This segment, used alone, provides the most efficient method of providing organizational identification. To obtain this efficiency the "ID Code" (N104) must provide a key to the table maintained by the transaction processing party.
 2 N105 and N106 further define the type of entity in N101.
Notes: [36] N1 SEGMENT - Stop-off Loop The loop may repeat up to nine times to represent up to nine stop-offs. When stop-offs occur: 1. If the consignee changes, a new 304 transaction must be generated. 2. Each stop-off requires a separate N1 stop-off loop.
 LOOP CONDITION: This loop contains stop-off information and is required for direct booking transactions

Data Element Summary

Ref.	Data Element	Name	Attributes
M	N101	98 Entity Identifier Code	M ID 2/3
		Code identifying an organizational entity, a physical location, property or an individual	
		[36-01] Stop-off Code	
		45 Drop-off Location	
		[36-01] Drop-off Location Use '45' to denote Stop-off	
	N102	93 Name	X AN 1/60
		Free-form name	
		[36-02] Stop-off Name	
		Name of party responsible for receiving stop-off delivery of shipment. ELEMENT CONDITION: If DoDAAC is not available, this data element is mandatory.	
	N103	66 Identification Code Qualifier	X ID 1/2
		Code designating the system/method of code structure used for Identification Code (67)	
		[36-03] Stop-off Code Qualifier	
		ELEMENT CONDITION: Required if N104 is used.	
		10 Department of Defense Activity Address Code (DODAAC)	
		[36-03] Department of Defense Activity Address Code (DODAAC)	
	N104	67 Identification Code	X AN 2/80
		Code identifying a party or other code	
		[36-04] Stop-off DoDAAC	
		Code that identifies the activity responsible for receiving stop-off delivery of shipment.	
	N105	706 Entity Relationship Code	O ID 2/2
		Code describing entity relationship	
		[36-05] Stop-off Sequence Code	
		ELEMENT CONDITION: Required if N104 is used.	
		01 Parent	
		[36-05] Parent	
		Use '01' to denote Stop-off Loop Sequence for which this instance of the N1 Stop-off Loop Occurs	

Segment: N2 Additional Name Information
Position: 390
Loop: N1 Optional
Level: Detail
Usage: Optional
Max Use: 2
Purpose: To specify additional names or those longer than 35 characters in length
Syntax Notes:
Semantic Notes:
Comments:
Notes: [37] N2 SEGMENT - Additional Stop-off Name
 SEGMENT CONDITION: Provide if Additional Stop-off 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	[37-01] Additional Stop-off Name Name	O AN 1/60

Segment: N3 Address Information
Position: 400
Loop: N1 Optional
Level: Detail
Usage: Optional
Max Use: 2
Purpose: To specify the location of the named party
Syntax Notes:
Semantic Notes:
Comments:
Notes:

[38] N3 SEGMENT - Stop-off Street
 SEGMENT CONDITION: Provide if Stop-off Street applies.

Data Element Summary

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
M	N301	166	Address Information Address information [38-01] Stop-off Street	M AN 1/55
	N302	166	Address Information Address information [38-02] Additional Stop-off Street	O AN 1/55

Segment: **N4 Geographic Location**
Position: 410
Loop: N1 Optional
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: [39] N4 SEGMENT - Stop-off City/State/Postal/Country Code

Data Element Summary

Ref.	Data	Name	Attributes
<u>Des.</u>	<u>Element</u>		
N401	19	City Name Free-form text for city name [39-01] Stop-off City ELEMENT CONDITION: Provide if Stop-off City applies.	O AN 2/30
N402	156	State or Province Code Code (Standard State/Province) as defined by appropriate government agency [39-02] Stop-off State or Province Code SOURCE: National Zip Code and Post Office Directory available from U.S. Postal Service National Information Data Center	O ID 2/2
N403	116	Postal Code Code defining international postal zone code excluding punctuation and blanks (zip code for United States) [39-03] Stop-off ZIP/Postal 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	O ID 3/15
N404	26	Country Code Code identifying the country [39-04] Stop-off Country Code SOURCE: Codes for Representation of Names of Countries, ISO 3166 available from American National Standards Institute; Codes for Representation of Currencies and Funds, ISO 4217 available from American National Standards Institute	O ID 2/3
X	N405	309 Location Qualifier Refer to 004010 Data Element Dictionary for acceptable code values.	X ID 1/2
X	N406	310 Location Identifier	O AN 1/30

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

- Syntax Notes:**
- 1 If either L301 or L302 is present, then the other is required.
 - 2 If either L303 or L304 is present, then the other is required.
 - 3 If either L309 or L310 is present, then the other is required.
 - 4 If L312 is present, then L301 is required.
 - 5 If either L314 or L315 is present, then the other is required.

Semantic Notes: 1 L305 is the total charges.

Comments:

Notes: [40] L3 SEGMENT - Total Measurements

Data Element Summary

Ref.	Data			Attributes
<u>Des.</u>	<u>Element</u>	<u>Name</u>		
>>	L301	81	Weight	X R 1/10
			Numeric value of weight	
			[40-01] Total Actual Weight of Shipment	
			Totals of certified weights for all commodities on bill of lading (combined actual net weight: contents, goods and dunnage); does not include chassis and container.	
>>	L302	187	Weight Qualifier	X ID 1/2
			Code defining the type of weight	
			[40-02] Total Actual Weight Qualifier	
		G	Gross Weight	
			[40-02] Gross Weight	
			Use 'G' to denote Weight for All Goods in Shipment	
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	
			[40-09] Total Actual Volume	
			Enter total cube of shipment (cargo + dunnage).	
	L310	184	Volume Unit Qualifier	X ID 1/1
			Code identifying the volume unit	
			[40-10] Total Actual Volume Qualifier	
			ELEMENT CONDITION: Required if L309 is used.	
		E	Cubic Feet	
			[40-10] Cubic Feet	
		X	Cubic Meters	
			[40-10] Cubic Meters	
	L311	80	Lading Quantity	O N0 1/7
			Number of units (pieces) of the lading commodity	
			[40-11] Total Actual Lading Quantity	

			Total of all pieces for bill of lading.	
L312	188		Weight Unit Code	O ID 1/1
			Code specifying the weight unit	
			[40-12] Total Actual Weight Unit Code	
			ELEMENT CONDITION: Required if L301 is used.	
		E	Metric Ton	
			[40-12] Metric Ton	
		G	Grams	
			[40-12] Grams	
		K	Kilograms	
			[40-12] Kilograms	
		L	Pounds	
			[40-12] Pounds	
		M	Measurement Ton	
			[40-12] Measurement Ton	
		O	Ounces	
			[40-12] Ounces	
		S	Short Ton	
			[40-12] Short Ton	
		T	Long Ton	
			[40-12] 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: 080
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: [41] SE SEGMENT - Verified Shipping Instructions (VSI) Notification 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	
			[41-01] Number of Included Segments	
			Total segments in this transaction set including the ST and SE segments.	
M	SE02	329	Transaction Set Control Number	M AN 4/9
			Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set	
			[41-02] 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. This IC element matrix applies to a specific application database, which is described in the Application Notes section below.

HOW TO READ THE IC ELEMENT MATRIX

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

Record Types

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

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

Two Categories of Record Information

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

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

Matrix Layout

The IC element matrix lists information in sixteen columns.

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

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

Sort Order of the Matrix

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

APPLICATION NOTES

The IC element matrix in this section maps data requirements for the Verified Shipping Instructions (VSI) Notification into the ASC X12 Transaction Set 304 Shipping Instructions. These requirements were developed by transportation activities involved in the DoD electronic data interchange effort.

This IC includes all changes approved by the DTEB Committee and described in DTEB data maintenance (DM) items up to the publication date of the IC.

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DEPARTMENT OF DEFENSE
TRANSPORTATION EDI CONVENTION

VERIFIED SHIPPING INSTRUCTIONS (VSI) NOTIFICATION
304.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		
1		ST SEGMENT - Verified Shipping Instructions (VSI) Notification Header	M	1	010	M	1								
1-01		Transaction Set Identifier Code 304 - Shipping Instructions	M ID 3/3	1	010	M	1				ST01	143	M	ID	3/3
1-02		Transaction Set Control Number 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
2		B2 SEGMENT - Shipment Identification Number	M	1	020	M	1								
2-01		Tariff Service Code DD - Door-to-Door	C ID 2/2	1	020	M	1				B201	375	O	ID	2/2
2-02		Standard Carrier Alpha Code 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	020	M	1				B202	140	O	ID	2/4
2-04		Shipper Reference Number For purposes of SDDC's Integrated Booking System, this is a port call file number. ELEMENT CONDITION: Port Call File No. will not exist if the shipper books directly with a carrier. In those situations, do not use this data element; the carriers will key on booking number and container number.	C AN 6/7	1	020	M	1				B204	145	O	AN	1/30
2-06		Shipment Method of Payment PP - Prepaid (by Seller)	M ID 2/2	1	020	M	1				B206	146	M	ID	2/2
3		B2A SEGMENT - Transaction Set Purpose Use a separate 304B transaction for each container in a shipment booking.	M	1	030	O	1								
3-01		Transaction Set Purpose Code 00 - Original 05 - Replace	M ID 2/2	1	030	O	1				B2A01	353	M	ID	2/2

DEPARTMENT OF DEFENSE
TRANSPORTATION EDI CONVENTION

VERIFIED SHIPPING INSTRUCTIONS (VSI) NOTIFICATION
304.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	
3-02		Application Type BL - Bill of Lading <i>Use 'BL' to denote Shipping Instructions (SI).</i> ZZ - Mutually Defined <i>Use 'ZZ' to denote Verified Shipping Instructions (VSI).</i>	C ID 2/2	1	030	O	1				B2A02	346	O ID 2/2	
4		N9 SEGMENT - Booking Number Information	M	1	080	O	100							
														See X12 Standards for explanation of syntax notes. R0203C0605
4-01		Booking Number Qualifier BN - Booking Number	M ID 2/2	1	080	O	100				N901	128	M ID 2/3	
4-02		Booking Number Use Booking Number.	M AN 1/30	1	080	O	100				N902	127	C AN 1/30	
5		N9 SEGMENT - Container TCN This segment stores the TCN for the container.	M	1	080	O	100							See X12 Standards for explanation of syntax notes. R0203C0605
5-01		Container TCN Qualifier SI - Shipper's Identifying Number for Shipment (SID) <i>Use 'SI' to denote Container TCN.</i>	M ID 2/2	1	080	O	100				N901	128	M ID 2/3	
5-02		Container TCN	M AN 17/17	1	080	O	100				N902	127	C AN 1/30	
6		N9 SEGMENT - Transportation Tracking Number (TTN) SEGMENT CONDITION: Required for unit move cargo when Transportation Tracking Number is applicable.	C	1	080	O	100							See X12 Standards for explanation of syntax notes. R0203C0605
6-01		Transportation Tracking Number (TTN) Qualifier 18 - Plan Number <i>Use '18' to denote Transportation Tracking Number (TTN).</i>	M Identifier 2/2	1	080	O	100				N901	128	M ID 2/3	
6-02		Transportation Tracking Number (TTN)	M AN 17/17	1	080	O	100				N902	127	C AN 1/30	
7		V1 SEGMENT - Vessel Enter information from booking.	M	1	090	O	2							See X12 Standards for explanation of syntax notes. R0102C0801

DEPARTMENT OF DEFENSE
TRANSPORTATION EDI CONVENTION

VERIFIED SHIPPING INSTRUCTIONS (VSI) NOTIFICATION
304.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			
7-01		Vessel Code Lloyd's Code/Radio Call Sign. SOURCE: Lloyd's Register of Shipping	C	ID	1/8	1	090	O	2			V101	597	C	ID	1/8	
7-02		Vessel Name SOURCE: Lloyd's Register of Shipping	M	AN	2/28	1	090	O	2			V102	182	C	AN	2/28	
7-04		Commercial Voyage Number	C	AN	2/10	1	090	O	2			V104	55	O	AN	2/10	
7-08		Vessel Code Qualifier C - Ship's Radio Call Signal L - Lloyd's Register of Shipping	C	ID	1/1	1	090	O	2			V108	897	O	ID	1/1	
8		N1 SEGMENT - Origin Name/DoDAAC/CAGE/D-U-N-S Begins shipment origin identifier loop. This loop calls for N1, N2, N3, and N4 segments.	M			1	160	O	1	100	1	N1				See X12 Standards for explanation of syntax notes. R0203P0304	
8-01		Origin Name Qualifier SF - Ship From <i>Use 'SF' to denote Origin Name.</i>	M	ID	2/2	1	160	O	1	100	1	N1	N101	98	M	ID	2/3
8-02		Origin Name	C	AN	1/60	1	160	O	1	100	1	N1	N102	93	C	AN	1/60
8-03		Origin DoDAAC/CAGE/D-U-N-S Qualifier Use code value 'ZZ' when code values '1', '10', or '33' do not apply. 1 - D-U-N-S Number, Dun & Bradstreet 10 - Department of Defense Activity Address Code (DODAAC) 33 - Commercial and Government Entity (CAGE) ZZ - Mutually Defined	C	ID	1/2	1	160	O	1	100	1	N1	N103	66	C	ID	1/2
8-04		Origin DoDAAC/CAGE/D-U-N-S Identification code of the responsible activity at the pickup location.	M	AN	2/80	1	160	O	1	100	1	N1	N104	67	C	AN	2/80
9		N2 SEGMENT - Origin Additional Name SEGMENT CONDITION: Use for Origin Additional Name as required.	C			1	170	O	2	100	1	N1					
9-01		Origin Additional Name	M	AN	1/60	1	170	O	2	100	1	N1	N201	93	M	AN	1/60

DEPARTMENT OF DEFENSE
TRANSPORTATION EDI CONVENTION

VERIFIED SHIPPING INSTRUCTIONS (VSI) NOTIFICATION
304.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		
10		N3 SEGMENT - Origin Street	M	1	180	O	2	100	1	N1					
10-01		Origin Street	M AN 1/55	1	180	O	2	100	1	N1	N301	166	M	AN	1/55
10-02		Origin Additional Street	C AN 1/55	1	180	O	2	100	1	N1	N302	166	O	AN	1/55
11		N4 SEGMENT - Origin City/State/Postal/Country Code Report as many of the following data elements (City, State, ZIP Code, Country Code) as applicable.	M	1	190	O	1	100	1	N1					
															See X12 Standards for explanation of syntax notes. C0605
11-01		Origin City	C AN 2/30	1	190	O	1	100	1	N1	N401	19	O	AN	2/30
11-02		Origin State or Province Code SOURCE: National Zip Code and Post Office Directory available from U.S. Postal Service National Information Data Center	C ID 2/2	1	190	O	1	100	1	N1	N402	156	O	ID	2/2
11-03		Origin ZIP/Postal 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	C ID 3/15	1	190	O	1	100	1	N1	N403	116	O	ID	3/15
11-04		Origin Country Code SOURCE: Codes for Representation of Names of Countries, ISO 3166 available from American National Standards Institute; Codes for Representation of Currencies and Funds, ISO 4217 available from American National Standards Institute	C ID 2/3	1	190	O	1	100	1	N1	N404	26	O	ID	2/3
12		N1 SEGMENT - Consignee Name/DoDAAC/CAGE/D-U-N-S Begins ultimate consignee identifier loop. This loop calls for N1, N2, N3, and N4 segments.	M	1	160	O	1	100	1	N1					
															See X12 Standards for explanation of syntax notes. R0203P0304
12-01		Consignee Name Qualifier CN - Consignee <i>Use 'CN' to denote Consignee Name.</i>	M ID 2/2	1	160	O	1	100	1	N1	N101	98	M	ID	2/3
12-02		Consignee Name	C AN 1/60	1	160	O	1	100	1	N1	N102	93	C	AN	1/60

DEPARTMENT OF DEFENSE
TRANSPORTATION EDI CONVENTION

VERIFIED SHIPPING INSTRUCTIONS (VSI) NOTIFICATION
304.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			
12-03		Consignee DoDAAC/CAGE/D-U-N-S Qualifier Use code value 'ZZ' when code values '1', '10', or '33' do not apply. 1 - D-U-N-S Number, Dun & Bradstreet 10 - Department of Defense Activity Address Code (DODAAC) 33 - Commercial and Government Entity (CAGE) ZZ - Mutually Defined	M	ID	1/2	1	160	O	1	100	1	N1	N103	66	C	ID	1/2
12-04		Consignee DoDAAC/CAGE/D-U-N-S	M	AN	2/80	1	160	O	1	100	1	N1	N104	67	C	AN	2/80
13		N2 SEGMENT - Additional Consignee Name SEGMENT CONDITION: Report Additional Consignee Name if applicable.	C			1	170	O	2	100	1	N1					
13-01		Additional Consignee Name	M	AN	1/60	1	170	O	2	100	1	N1	N201	93	M	AN	1/60
14		N3 SEGMENT - Consignee Street SEGMENT CONDITION: Report Consignee Street if available.	C			1	180	O	2	100	1	N1					
14-01		Consignee Street	M	AN	1/55	1	180	O	2	100	1	N1	N301	166	M	AN	1/55
14-02		Consignee Additional Street	C	AN	1/55	1	180	O	2	100	1	N1	N302	166	O	AN	1/55
15		N4 SEGMENT - Consignee City/State/Postal/Country Code Report as many of the following data elements (City, State, ZIP Code, Country Code) as applicable.	M			1	190	O	1	100	1	N1					
15-01		Consignee City	C	AN	2/30	1	190	O	1	100	1	N1	N401	19	O	AN	2/30
15-02		Consignee State or Province Code SOURCE: National Zip Code and Post Office Directory available from U.S. Postal Service National Information Data Center	C	ID	2/2	1	190	O	1	100	1	N1	N402	156	O	ID	2/2
15-03		Consignee ZIP/Postal 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	C	ID	3/15	1	190	O	1	100	1	N1	N403	116	O	ID	3/15

DEPARTMENT OF DEFENSE
TRANSPORTATION EDI CONVENTION

VERIFIED SHIPPING INSTRUCTIONS (VSI) NOTIFICATION
304.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			
15-04		Consignee Country Code SOURCE: Codes for Representation of Names of Countries, ISO 3166 available from American National Standards Institute; Codes for Representation of Currencies and Funds, ISO 4217 available from American National Standards Institute	C	ID	2/3	1	190	O	1	100	1	N1	N404	26	O	ID	2/3
16		R4 SEGMENT - Port of Embarkation (POE)	M			1	200	O	1	20	1	R4					
See X12 Standards for explanation of syntax notes. P0203																	
16-01		POE Qualifier L - Port of Loading (Operational)	M	ID	1/1	1	200	O	1	20	1	R4	R401	115	M	ID	1/1
16-02		POE Location Qualifier D - Census Schedule D IM - Military Standard Movement Procedures (MILSTAMP) <i>Use 'IM' to denote Defense Transportation Regulation Port Code.</i> K - Census Schedule K	C	ID	1/2	1	200	O	1	20	1	R4	R402	309	C	ID	1/2
16-03		POE Location Identifier	C	AN	1/30	1	200	O	1	20	1	R4	R403	310	C	AN	1/30
16-04		POE Name	M	AN	2/24	1	200	O	1	20	1	R4	R404	114	O	AN	2/24
16-05		POE Country Code SOURCE: Codes for Representation of Names of Countries, ISO 3166 available from American National Standards Institute; Codes for Representation of Currencies and Funds, ISO 4217 available from American National Standards Institute	C	ID	2/3	1	200	O	1	20	1	R4	R405	26	O	ID	2/3
16-08		POE State or Province Code SOURCE: National Zip Code and Post Office Directory available from U.S. Postal Service National Information Data Center	C	ID	2/2	1	200	O	1	20	1	R4	R408	156	O	ID	2/2
17		R4 SEGMENT - Port of Debarkation (POD)	M			1	200	O	1	20	1	R4					
See X12 Standards for explanation of syntax notes. P0203																	
17-01		POD Qualifier D - Port of Discharge (Operational)	M	ID	1/1	1	200	O	1	20	1	R4	R401	115	M	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			
17-02		POD Location Qualifier Required if R403 is used. ELEMENT CONDITION: Required if R403 is used. D - Census Schedule D IM - Military Standard Movement Procedures (MILSTAMP) <i>Use 'IM' to denote Defense Transportation Regulation Port Code.</i> K - Census Schedule K	C	ID	1/2	1	200	O	1	20	1	R4	R402	309	C	ID	1/2
17-03		POD Location Identifier	C	AN	1/30	1	200	O	1	20	1	R4	R403	310	C	AN	1/30
17-04		POD Name	M	AN	2/24	1	200	O	1	20	1	R4	R404	114	O	AN	2/24
17-05		POD Country Code SOURCE: Codes for Representation of Names of Countries, ISO 3166 available from American National Standards Institute; Codes for Representation of Currencies and Funds, ISO 4217 available from American National Standards Institute	C	ID	2/3	1	200	O	1	20	1	R4	R405	26	O	ID	2/3
17-08		POD State or Province Code SOURCE: National Zip Code and Post Office Directory available from U.S. Postal Service National Information Data Center	C	ID	2/2	1	200	O	1	20	1	R4	R408	156	O	ID	2/2
18		LX SEGMENT - Container Level Information Loop Use only one LX loop per line item. Repeat container details for each LX loop.	M			2	010	O	1	999	1	LX					
18-01		Assigned Number Enter value one (1). Increment by one (1) for each additional loop.	M	N0	1/6	2	010	O	1	999	1	LX	LX01	554	M	N0	1/6
19		N7 SEGMENT - Container Initial/Number/Wgt/Volume & Equipmt Description/Lgth/Type	M			2	030	O	1	999	2	N7					
See X12 Standards for explanation of syntax notes. P0304P0516P0809																	
19-01		Container ID Enter the three alphabetic character Owner code and single alphabetic character Product Group code (the four alphabetic characters that begin the container number)of the equipment owner that appears on the container. If unavailable, enter the equipment owner's SCAC. SOURCE: IATA Unit Load Devices Manual available from International Air Transport Association	M	AN	1/4	2	030	O	1	999	2	N7	N701	206	O	AN	1/4

DEPARTMENT OF DEFENSE
TRANSPORTATION EDI CONVENTION

VERIFIED SHIPPING INSTRUCTIONS (VSI) NOTIFICATION
304.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			
19-02		Container Number This is the number that appears on the side of the container.	M	AN	6/6	2	030	O	1	999	2	N7	N702	207	M	AN	1/10
19-03		Container Weight Cargo + dunnage (does not include weight of container or chassis).	M	R	1/10	2	030	O	1	999	2	N7	N703	81	C	R	1/10
19-04		Container Weight Qualifier CE - Certified Weight of Cargo	M	ID	2/2	2	030	O	1	999	2	N7	N704	187	C	ID	1/2
19-08		Container Volume Volume of cargo plus dunnage.	M	R	1/8	2	030	O	1	999	2	N7	N708	183	C	R	1/8
19-09		Container Volume Unit Qualifier E - Cubic Feet	M	ID	1/1	2	030	O	1	999	2	N7	N709	184	C	ID	1/1
19-11		Equipment Description Code \ ELEMENT CONDITION: Required only for direct booking. See Section 6 for list of data values.	C	ID	2/2	2	030	O	1	999	2	N7	N711	40	O	ID	2/2
19-15		Equipment Length Format is FFFI, where 'FFF' is feet and 'II' is inches; the range for 'II' is 00 through 11.	M	N0	5/5	2	030	O	1	999	2	N7	N715	567	O	N0	4/5
19-17		Container Weight Unit Qualifier Indicates certified weight of cargo in pounds or kilograms. This is the qualifier for the weight in N703. 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	030	O	1	999	2	N7	N717	188	O	ID	1/1

DEPARTMENT OF DEFENSE
TRANSPORTATION EDI CONVENTION

VERIFIED SHIPPING INSTRUCTIONS (VSI) NOTIFICATION
304.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			
19-18		Equipment Number Check Digit ELEMENT CONDITION: Use when Equipment Number Check Digit applies.	C	N0	1/1	2	030	O	1	999	2	N7	N718	761	O	N0	1/1
19-22		Equipment Type SOURCE: Identification Marking Code for Freight Containers (ISO 6346-1995) available from American National Standards Institute	C	ID	4/4	2	030	O	1	999	2	N7	N722	24	O	ID	4/4
20		M7 SEGMENT - Seal Number SEGMENT CONDITION: Required when seals are applied. Segment may occur up to three (3) times.	C			2	050	O	5	999	2	N7					
20-01		Seal Number	M	AN	2/15	2	050	O	5	999	2	N7	M701	225	M	AN	2/15
21		W09 SEGMENT - Reefer Description/Temperature SEGMENT CONDITION: Reefer Description/Temperature is used for reefer containers.	C			2	060	O	1	999	2	N7					
See X12 Standards for explanation of syntax notes. P0203P0405																	
21-01		Reefer Description Code CJ - Container, Insulated/Ventilated CZ - Refrigerated Container	M	ID	2/2	2	060	O	1	999	2	N7	W0901	40	M	ID	2/2
21-02		Minimum Temperature	M	R	1/4	2	060	O	1	999	2	N7	W0902	408	C	R	1/4
21-03		Minimum Temperature Measurement Qualifier FA - Fahrenheit	M	ID	2/2	2	060	O	1	999	2	N7	W0903	355	C	ID	2/2
21-04		Maximum Temperature	M	R	1/4	2	060	O	1	999	2	N7	W0904	408	C	R	1/4
21-05		Maximum Temperature Measurement Qualifier FA - Fahrenheit	M	ID	2/2	2	060	O	1	999	2	N7	W0905	355	C	ID	2/2
22		K1 SEGMENT - Remarks SEGMENT CONDITION: Used if desired for providing freeform text comments about a container.	C			2	160	O	10	999	1	LX					
22-01		Remarks Enter remarks for a container.	M	AN	1/30	2	160	O	10	999	1	LX	K101	61	M	AN	1/30
22-02		Additional Remarks Enter Additional Remarks for a container.	C	AN	1/30	2	160	O	10	999	1	LX	K102	61	O	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	
23		K1 SEGMENT - Optional Remarks SEGMENT CONDITION: Used if desired for providing optional freeform text comments about a container.	C	2	160	O	10	999	1	LX				
23-01		Optional Remarks Enter Optional Remarks for a container. Do not use for content level detail or break bulk items.	M AN 1/30	2	160	O	10	999	1	LX	K101	61	M AN	1/30
23-02		Additional Optional Remarks Enter Additional Optional Remarks, if any, for a container.	C AN 1/30	2	160	O	10	999	1	LX	K102	61	O AN	1/30
24		L0 SEGMENT - Line Item Level (within container) LOOP CONDITION: Line Item Level required for non-empty containers. Not used if shipping an empty container.	C	2	170	O	1	120	2	L0				
24-01		Lading Line Item Number	M N0 1/3	2	170	O	1	120	2	L0	L001	213	O N0	1/3
24-04		Lading Line Item Weight Weight of the item only; should be equal to or less than the weight of the container. Use L004 and L005 when the shipment is based on pounds.	M R 1/10	2	170	O	1	120	2	L0	L004	81	C R	1/10
24-05		Lading Line Item Weight Qualifier Use L004 and L005 when the shipment is based on pounds. ELEMENT CONDITION: Required if L004 is used. N - Actual Net Weight	C ID 1/1	2	170	O	1	120	2	L0	L005	187	C ID	1/2
24-06		Lading Line Item Volume	C R 1/8	2	170	O	1	120	2	L0	L006	183	C R	1/8
24-07		Lading Line Item Volume Unit Qualifier Use code value 'S' only for a direct booking transaction. ELEMENT CONDITION: Required if L006 is used. E - Cubic Feet S - Measurement Ton X - Cubic Meters	C ID 1/1	2	170	O	1	120	2	L0	L007	184	C ID	1/1
24-08		Content Pieces Quantity Number of pieces in an individual shipping unit.	M N0 1/7	2	170	O	1	120	2	L0	L008	80	C N0	1/7

DEPARTMENT OF DEFENSE
TRANSPORTATION EDI CONVENTION

VERIFIED SHIPPING INSTRUCTIONS (VSI) NOTIFICATION
304.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	
24-09		Type Pack Code SOURCE: Reference Section 6.0 of this IC for code values using applicable Type Pack Code table. Common code values associated with multiple definitions prevents documentation of the entire sub-set. Sample Values: BAG, BAL, BBL, BDL	M	ID	3/3	2	170	O	1	120	2	L0	L009	211	C ID 3/3
24-11		Weight Unit Code This code value qualifies L004. ELEMENT CONDITION: Required if L004 is used. E - Metric Ton G - Grams K - Kilograms L - Pounds M - Measurement Ton O - Ounces S - Short Ton T - Long Ton	C	ID	1/1	2	170	O	1	120	2	L0	L011	188	O ID 1/1
25		MEA SEGMENT - Net Explosive Weight (English) SEGMENT CONDITION: Net Explosive Weight required for ammunition shipment.	C			2	171	O	10	120	2	L0			See X12 Standards for explanation of syntax notes. R03050608C0504C0604L07030506E0803
25-01		Net Explosive Weight Qualifier NX - Net Explosive Weight	M	ID	2/2	2	171	O	10	120	2	L0	MEA01	737	O ID 2/2
25-03		Net Explosive Weight If Net Explosive Weight is available for an individual line item, carry that weight in this data element. Entry may contain a decimal; if not, decimal is assumed at right-most point of the field.	M	R	1/8	2	171	O	10	120	2	L0	MEA03	739	C R 1/20
25-04		Composite Unit of Measurement Code C00101 calls for an identifier from the DE 355 code list. The element separator is not used in this template. Its elements are concatenated together without using a delimiter.	M	CE		2	171	O	10	120	2	L0	MEA04	C001	C CE
25-04-01		Net Explosive Weight Qualifier (English) Both metric and English units are required to comply with 49 CFR 171.10. If explosive is dry, use code value 'PN'; if wet, use code value 'GA'. By placing these code values (DE 355 unit qualifier) in the C00101, you are satisfying X12 syntax requirements for the composite data element. See Section 6 for list of data values.	M	ID	2/2	2	171	C	10	120	2	L0	C00101	355	M ID 2/2

DEPARTMENT OF DEFENSE
TRANSPORTATION EDI CONVENTION

VERIFIED SHIPPING INSTRUCTIONS (VSI) NOTIFICATION
304.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		
26		MEA SEGMENT - Round Count SEGMENT CONDITION: Round Count required for ammunition shipment to comply with 49 CFR 171.10.	C		2	171	O	10	120	2	L0					
					See X12 Standards for explanation of syntax notes. R03050608C0504C0604L07030506E0803											
26-01		Round Count Qualifier CT - Counts <i>Use 'CT' to denote Round Count Value.</i>	M	ID 2/2	2	171	O	10	120	2	L0	MEA01	737	O	ID 2/2	
26-03		Round Count No decimal allowed for Round Count.	M	N0 1/8	2	171	O	10	120	2	L0	MEA03	739	C	R 1/20	
27		L4 SEGMENT - Shipping Dimensions for Oversized Cargo SEGMENT CONDITION: Shipping Dimensions for Oversized Cargo required for oversized (usually flat rack or open top) cargo. Not required if shipping a standard 40-foot container.	C		2	177	O	1	120	2	L0					
27-01		Oversized Cargo Length	M	R 1/8	2	177	O	1	120	2	L0	L401	82	M	R 1/8	
27-02		Oversized Cargo Width	M	R 1/8	2	177	O	1	120	2	L0	L402	189	M	R 1/8	
27-03		Oversized Cargo Height	M	R 1/8	2	177	O	1	120	2	L0	L403	65	M	R 1/8	
27-04		Measurement Unit Qualifier N - Inches	M	ID 1/1	2	177	O	1	120	2	L0	L404	90	M	ID 1/1	
27-05		Oversized Cargo Quantity	C	R 1/15	2	177	O	1	120	2	L0	L405	380	O	R 1/15	
28		L5 SEGMENT - Description of Articles	M		2	185	O	999	120	2	L0					
					See X12 Standards for explanation of syntax notes. P0304C0706P0809											
28-01		Lading Line Item Number	M	N0 1/3	2	185	O	999	120	2	L0	L501	213	O	N0 1/3	
28-02		Lading Description Clear text description of the unit of sale being shipped.	M	AN 1/50	2	185	O	999	120	2	L0	L502	79	O	AN 1/50	
28-03		Commodity Code	M	AN 1/30	2	185	O	999	120	2	L0	L503	22	C	AN 1/30	

DEPARTMENT OF DEFENSE
TRANSPORTATION EDI CONVENTION

VERIFIED SHIPPING INSTRUCTIONS (VSI) NOTIFICATION
304.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		
28-04		Commodity Code Qualifier F - National Stock Number I - Milstamp AITC or Water Commodity Code N - National Motor Freight Classification (NMFC) U - Uniform Freight Classification (UFC) Z - Mutually defined	M	ID	1/1	2	185	O	999	120	2	L0	L504	23	C ID	1/1
28-06		Marks and Numbers	C	AN	1/48	2	185	O	999	120	2	L0	L506	87	C AN	1/48
29		L5 SEGMENT - Privately Owned Vehicle SEGMENT CONDITION: Required if shipping a Privately Owned Vehicle.	C			2	185	O	999	120	2	L0				
						See X12 Standards for explanation of syntax notes. P0304C0706P0809										
29-02		Privately Owned Vehicle Make	M	AN	1/50	2	185	O	999	120	2	L0	L502	79	O AN	1/50
29-06		Privately Owned Vehicle Color	C	AN	1/48	2	185	O	999	120	2	L0	L506	87	C AN	1/48
30		L12 SEGMENT - Additional Remarks SEGMENT CONDITION: Two occurrences of this segment are allowed if needed for providing Additional Remarks on a line item.	C			2	190	O	20	120	2	L0				
30-02		Additional Remarks Free-form text for additional line item remarks or handling instructions.	M	AN	1/80	2	190	O	20	120	2	L0	L1202	352	O AN	1/80
31		N9 SEGMENT - Content Level TCN	M			2	195	O	100	120	2	L0				
						See X12 Standards for explanation of syntax notes. R0203C0605										
31-01		TCN Qualifier TG - Transportation Control Number (TCN)	M	ID	2/2	2	195	O	100	120	2	L0	N901	128	M ID	2/3
31-02		Content Level TCN Enter Content Level TCN. Container TCN is in Table 1 N9 segment.	M	AN	17/17	2	195	O	100	120	2	L0	N902	127	C AN	1/30
32		N9 SEGMENT - Transportation Tracking Number (TTN)	M			2	195	O	100	120	2	L0				
						See X12 Standards for explanation of syntax notes. R0203C0605										
32-01		Transportation Tracking Number (TTN) Qualifier 18 - Plan Number <i>Use '18' to denote Transportation Tracking Number (TTN).</i>	M	Identifier	2/2	2	195	O	100	120	2	L0	N901	128	M ID	2/3

DEPARTMENT OF DEFENSE
TRANSPORTATION EDI CONVENTION

VERIFIED SHIPPING INSTRUCTIONS (VSI) NOTIFICATION
304.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		
32-02		Transportation Tracking Number (TTN)	M	AN	17/17	2	195	O	100	120	2	L0	N902	127	C AN	1/30
33		N9 SEGMENT - DoD Identification Code (DoDIC) SEGMENT CONDITION: DoDIC is required for all ammunition and explosives. (Also called Navy Ammunition Logistics Code (NALC).) Required for DTTS if the hazardous shipment contains ammunition.	C			2	195	O	100	120	2	L0	See X12 Standards for explanation of syntax notes. R0203C0605			
33-01		DoDIC Qualifier 11 - Department of Defense Identification Code (DoDIC)	M	ID	2/2	2	195	O	100	120	2	L0	N901	128	M ID	2/3
33-02		DoDIC	M	AN	4/4	2	195	O	100	120	2	L0	N902	127	C AN	1/30
34		H1 SEGMENT - HAZMAT Information LOOP CONDITION: This segment begins the HAZMAT loop, which is required only if the shipment contains hazardous material. The loop may occur only once per line item.	C			2	270	O	1	10	3	H1	See X12 Standards for explanation of syntax notes. P0708			
34-01		HAZMAT - UN/NA Identification Code Contains the United Nations/North America (UN/NA) code. Value 'UN' appears in the first two positions for UN codes. Value 'NA' appears in the first two positions for 'NA' codes. SOURCE: Hazardous Material Code (49 Level) available from Tariff Publishing Officer; Tariff 6D - Official Regulations on Restricted Articles available from Airline Tariff Publishing Co.; Code of Federal Regulations CFR Title 46 available from Superintendent of Documents U.S. Government Printing Office; U.S. Government Printing Office available from Intergovernmental Maritime Consultative Organization (IMCO); IATA Restricted Articles Regulations available from International Air Transport Association; Code of Federal Regulations, Transportation. Title 49, parts 100 to 177, pages 75-170 available from Superintendent of Documents U.S. Government Printing Office; "Transportation of Dangerous Goods", Recommendations of the Committee of Experts of the Transport of Dangerous Goods available from Sales No: 200 89.10.E International Maritime Organization	M	AN	6/6	2	270	O	1	10	3	H1	H101	62	M AN	4/10
34-04		HAZMAT - Description Use the UN/NA description. SOURCE: Hazardous Material Code (49 Level) available from Tariff Publishing Officer; Tariff 6D - Official Regulations on Restricted Articles available from Airline Tariff Publishing Co.; Code of Federal Regulations CFR Title 46 available from Superintendent of Documents U.S. Government Printing Office; U.S. Government Printing Office available from Intergovernmental Maritime Consultative Organization (IMCO); IATA Restricted Articles Regulations available from International Air Transport Association; Code of Federal Regulations, Transportation. Title 49, parts 100 to 177, pages 75-170 available from Superintendent of Documents U.S. Government Printing Office; "Transportation of Dangerous Goods", Recommendations of the Committee of Experts of the Transport of Dangerous Goods available from Sales No: 200 89.10.E International Maritime Organization	C	AN	4/25	2	270	O	1	10	3	H1	H104	64	O AN	2/30
34-05		HAZMAT - Hazardous Material Contact Phone number and name of person or activity to contact in case of emergency.	C	AN	1/24	2	270	O	1	10	3	H1	H105	63	O AN	1/24

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			
34-07		HAZMAT - Flashpoint Temperature (Fahrenheit only.)	C	N0	1/3	2	270	O	1	10	3	H1	H107	77	C	N0	1/3
34-08		HAZMAT - Flashpoint Qualifier ELEMENT CONDITION: Required if H107 is used. FA - Fahrenheit	C	ID	2/2	2	270	O	1	10	3	H1	H108	355	C	ID	2/2
35		H2 SEGMENT - HAZMAT Class/Division & Description SEGMENT CONDITION: Segment required for HAZMAT shipment.	C			2	280	O	10	10	3	H1					
35-01		HAZMAT - Description Use this element for clear text description for mandatory hazmat reporting, such as English and metric net explosive weights, ammunition round count, or number of hazardous pieces. SOURCE: Hazardous Material Code (49 Level) available from Tariff Publishing Officer; Tariff 6D - Official Regulations on Restricted Articles available from Airline Tariff Publishing Co.; Code of Federal Regulations CFR Title 46 available from Superintendent of Documents U.S. Government Printing Office; U.S. Government Printing Office available from Intergovernmental Maritime Consultative Organization (IMCO); IATA Restricted Articles Regulations available from International Air Transport Association; Code of Federal Regulations, Transportation. Title 49, parts 100 to 177, pages 75-170 available from Superintendent of Documents U.S. Government Printing Office; "Transportation of Dangerous Goods", Recommendations of the Committee of Experts of the Transport of Dangerous Goods available from Sales No: 200 89.10.E International Maritime Organization	M	AN	2/30	2	280	O	10	10	3	H1	H201	64	M	AN	2/30
35-02		HAZMAT - Class/Division Clear text. Include additional required information such as DOT explosive approval number (EX number), competent authority approval number, DOT exemption (DOT-E) number, International Maritime Dangerous Good Code (IMDG), or whether NOS regulatory requirements apply.	C	AN	1/30	2	280	O	10	10	3	H1	H202	274	O	AN	1/30
36		N1 SEGMENT - Stop-off Loop LOOP CONDITION: This loop contains stop-off information and is required for direct booking transactions The loop may repeat up to nine times to represent up to nine stop-offs. When stop-offs occur: 1. If the consignee changes, a new 304 transaction must be generated. 2. Each stop-off requires a separate N1 stop-off loop.	C			2	380	O	1	10	3	N1					See X12 Standards for explanation of syntax notes. R0203P0304
36-01		Stop-off Code 45 - Drop-off Location <i>Use '45' to denote Stop-off.</i>	M	ID	2/2	2	380	O	1	10	3	N1	N101	98	M	ID	2/3
36-02		Stop-off Name Name of party responsible for receiving stop-off delivery of shipment. ELEMENT CONDITION: If DoDAAC is not available, this data element is mandatory.	C	AN	1/60	2	380	O	1	10	3	N1	N102	93	C	AN	1/60

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	
36-03		Stop-off Code Qualifier ELEMENT CONDITION: Required if N104 is used. 10 - Department of Defense Activity Address Code (DODAAC)	C ID 2/2	2	380	O	1	10	3	N1	N103	66	C ID	1/2
36-04		Stop-off DoDAAC Code that identifies the activity responsible for receiving stop-off delivery of shipment.	C AN 2/80	2	380	O	1	10	3	N1	N104	67	C AN	2/80

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		
36-05		Stop-off Sequence Code ELEMENT CONDITION: Required if N104 is used. 01 - Parent <i>Use '01' to denote Stop-off Loop Sequence for which this instance of the N1 Stop-off Loop Occurs.</i> 02 - Child <i>Use '02' to denote Stop-off Loop Sequence for which this instance of the N1 Stop-off Loop Occurs.</i> 03 - Corporation <i>Use '03' to denote Stop-off Loop Sequence for which this instance of the N1 Stop-off Loop Occurs.</i> 04 - Subsidiary <i>Use '04' to denote Stop-off Loop Sequence for which this instance of the N1 Stop-off Loop Occurs.</i> 05 - Wholly-Owned Subsidiary <i>Use '05' to denote Stop-off Loop Sequence for which this instance of the N1 Stop-off Loop Occurs.</i> 06 - Division <i>Use '06' to denote Stop-off Loop Sequence for which this instance of the N1 Stop-off Loop Occurs.</i> 07 - Company <i>Use '07' to denote Stop-off Loop Sequence for which this instance of the N1 Stop-off Loop Occurs.</i> 08 - Doing Business As <i>Use '08' to denote Stop-off Loop Sequence for which this instance of the N1 Stop-off Loop Occurs.</i> 09 - Component <i>Use '09' to denote Stop-off Loop Sequence for which this instance of the N1 Stop-off Loop Occurs.</i> 38 - Owner <i>Use '38' to denote Ultimate Consignee.</i>	C ID 2/2	2	380	O	1	10	3	N1	N105	706	O	ID	2/2
37		N2 SEGMENT - Additional Stop-off Name SEGMENT CONDITION: Provide if Additional Stop-off Name applies.	C	2	390	O	2	10	3	N1					
37-01		Additional Stop-off Name	M AN 1/60	2	390	O	2	10	3	N1	N201	93	M	AN 1/60	

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		N3 SEGMENT - Stop-off Street SEGMENT CONDITION: Provide if Stop-off Street applies.	C		2	400	O	2	10	3	N1				
38-01		Stop-off Street	M	AN	1/55	2	400	O	2	10	3	N1	N301	166	M AN 1/55
38-02		Additional Stop-off Street	C	AN	1/55	2	400	O	2	10	3	N1	N302	166	O AN 1/55
39		N4 SEGMENT - Stop-off City/State/Postal/Country Code	M			2	410	O	1	10	3	N1			
See X12 Standards for explanation of syntax notes. C0605															
39-01		Stop-off City ELEMENT CONDITION: Provide if Stop-off City applies.	C	AN	2/30	2	410	O	1	10	3	N1	N401	19	O AN 2/30
39-02		Stop-off State or Province Code SOURCE: National Zip Code and Post Office Directory available from U.S. Postal Service National Information Data Center	C	ID	2/2	2	410	O	1	10	3	N1	N402	156	O ID 2/2
39-03		Stop-off ZIP/Postal 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	C	ID	3/15	2	410	O	1	10	3	N1	N403	116	O ID 3/15
39-04		Stop-off Country Code SOURCE: Codes for Representation of Names of Countries, ISO 3166 available from American National Standards Institute; Codes for Representation of Currencies and Funds, ISO 4217 available from American National Standards Institute	C	ID	2/3	2	410	O	1	10	3	N1	N404	26	O ID 2/3
40		L3 SEGMENT - Total Measurements	M			3	010	O	1	1	1	L3			
See X12 Standards for explanation of syntax notes. P0102P0304P0910C1201P1415															
40-01		Total Actual Weight of Shipment Totals of certified weights for all commodities on bill of lading (combined actual net weight: contents, goods and dunnage); does not include chassis and container.	M	R	1/10	3	010	O	1	1	1	L3	L301	81	C R 1/10
40-02		Total Actual Weight Qualifier G - Gross Weight <i>Use 'G' to denote Weight for All Goods in Shipment.</i>	M	ID	1/1	3	010	O	1	1	1	L3	L302	187	C ID 1/2
40-09		Total Actual Volume Enter total cube of shipment (cargo + dunnage).	C	R	1/8	3	010	O	1	1	1	L3	L309	183	C R 1/8

DEPARTMENT OF DEFENSE
TRANSPORTATION EDI CONVENTION

VERIFIED SHIPPING INSTRUCTIONS (VSI) NOTIFICATION
304.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	
40-10		Total Actual Volume Qualifier ELEMENT CONDITION: Required if L309 is used. E - Cubic Feet X - Cubic Meters	C	ID	1/1	3	010	O	1	1	1	L3	L310	184	C ID 1/1
40-11		Total Actual Lading Quantity Total of all pieces for bill of lading.	C	N0	1/7	3	010	O	1	1	1	L3	L311	80	O N0 1/7
40-12		Total Actual Weight Unit Code ELEMENT CONDITION: Required if L301 is used. E - Metric Ton G - Grams K - Kilograms L - Pounds M - Measurement Ton O - Ounces S - Short Ton T - Long Ton	C	ID	1/1	3	010	O	1	1	1	L3	L312	188	O ID 1/1
41		SE SEGMENT - Verified Shipping Instructions (VSI) Notification Trailer	M			3	080	M	1						
41-01		Number of Included Segments Total segments in this transaction set including the ST and SE segments.	M	N0	1/10	3	080	M	1			SE01	96	M N0	1/10
41-02		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	080	M	1			SE02	329	M AN	4/9

Section 6.0

APPLICATION CODE LISTS

19-11 -- Equipment Description Code

Data Value - Definition

AC - Closed Container
AT - Closed Container (Controlled Temperature)
BC - Covered Barge
BK - Container, Bulk
*** Use 'BK' to denote Container.*
BO - Barge Open
BR - Barge
CC - Container resting on a Chassis
CG - Container, Tank (Gas)
CH - Chassis
CI - Container, Insulated
CJ - Container, Insulated/Ventilated
CL - Container (Closed Top - Length Unspecified)
CM - Container, Open-Sided
CN - Container
CQ - Container, Tank (Food Grade-Liquid)
CS - Container-Low Side Open Top
CU - Container (Open Top - Length Unspecified)
CV - Closed Van
CW - Container, Tank (Chemicals)
CX - Container, Tank
CZ - Refrigerated Container
DD - Double-Drop Trailer
DT - Drop Back Trailer
FH - Flat Bed Trailer with Headboards
FN - Flat Bed Trailer with No Headboards
FR - Flat Bed Trailer - Removable Sides
FT - Flat Bed Trailer
HB - Container with Hangar Bars
HV - High Cube Van
IX - Boxcar (Insulated)
LS - Half Height Flat Rack
*** Use 'LS' to denote Flat-Rack.*
OT - Open-top/flatbed trailer
OV - Open Top Van
PL - Container, Platform
PT - Protected Trailer
RA - Fixed-Rack, Flat-Bed Trailer
RC - Refrigerated (Reefer) Car
RD - Fixed-Rack, Double Drop Trailer
*** Use 'RD' to denote Fixed-Rack, Double Top Trailer.*
RE - Flat Car (End Bulkheads)
RF - Flat Car
RR - Rail Car
SD - Single-Drop Trailer
SL - Container, Steel
SS - Container with Smooth Sides
ST - Removable Side Trailer
TA - Trailer, Heated/Insulated/Ventilated
TC - Trailer, Car
TF - Trailer, Dry Freight
TI - Trailer, Insulated
TL - Trailer (not otherwise specified)
TM - Trailer, Insulated/Ventilated
TN - Tank Car
TW - Trailer, Refrigerated
VA - Container, Vented

25-04-01 -- Net Explosive Weight Qualifier (English)

Data Value - Definition
01 - Actual Pounds
02 - Statute Mile
03 - Seconds
04 - Small Spray
05 - Lifts
06 - Digits
07 - Strand
08 - Heat Lots
09 - Tire
10 - Group
11 - Outfit
12 - Packet
13 - Ration
14 - Shot
15 - Stick
16 - 115 Kilogram Drum
17 - 100 Pound Drum
18 - 55 Gallon Drum
19 - Tank Truck
1A - Car Mile
1B - Car Count
1C - Locomotive Count
1D - Caboose Count
1E - Empty Car
1F - Train Mile
1G - Fuel Usage (Gallons)
1H - Caboose Mile
1I - Fixed Rate
1J - Ton Miles
1K - Locomotive Mile
1L - Total Car Count
1M - Total Car Mile
1N - Count
1O - Season
1P - Tank Car
1Q - Frames
1R - Transactions
1X - Quarter Mile
20 - 20 Foot Container
21 - 40 Foot Container
22 - Deciliter per Gram
23 - Grams per Cubic Centimeter
24 - Theoretical Pounds
25 - Grams per Square Centimeter
26 - Actual Tons
27 - Theoretical Tons
28 - Kilograms per Square Meter
29 - Pounds per 1000 Square Feet
2A - Radians Per Second
2B - Radians Per Second Squared
2C - Roentgen
2F - Volts Per Meter
2G - Volts (Alternating Current)
2H - Volts (Direct Current)
2I - British Thermal Units (BTUs) Per Hour
2J - Cubic Centimeters Per Second
2K - Cubic Feet Per Hour
2L - Cubic Feet Per Minute
2M - Centimeters Per Second
2N - Decibels
2P - Kilobyte
2Q - Kilobecquerel
2R - Kilocurie
2U - Megagram
2V - Megagrams Per Hour
2W - Bin
2X - Meters Per Minute
2Y - Milliroentgen
2Z - Millivolts
30 - Horsepower Days per Air Dry Metric Tons
31 - Catchweight
32 - Kilograms per Air Dry Metric Tons
33 - Kilopascal Square Meters per Gram
34 - Kilopascals per Millimeter
35 - Milliliters per Square Centimeter Second
36 - Cubic Feet per Minute per Square Foot
37 - Ounces per Square Foot
38 - Ounces per Square Foot per 0.01 Inch

25-04-01 -- Net Explosive Weight Qualifier (English) (CONT)

Data Value - Definition
39 - Basis Points
3B - Megajoule
3C - Manmonth
3E - Pounds Per Pound of Product
3F - Kilograms Per Liter of Product
3G - Pounds Per Piece of Product
3H - Kilograms Per Kilogram of Product
3I - Kilograms Per Piece of Product
40 - Milliliter per Second
41 - Milliliter per Minute
43 - Super Bulk Bag
44 - 500 Kilogram Bulk Bag
45 - 300 Kilogram Bulk Bag
46 - 25 Kilogram Bulk Bag
47 - 50 Pound Bag
48 - Bulk Car Load
4A - Bobbin
4B - Cap
4C - Centistokes
4D - Curie
4E - 20-Pack
4F - 100-Pack
4G - Microliter
4H - Micrometer
4I - Meters Per Second
4J - Meters Per Second Per Second
4K - Milliampere
4L - Megabyte
4M - Milligrams Per Hour
4N - Megabecquerel
4O - Microfarad
4P - Newtons Per Meter
4Q - Ounce Inch
4R - Ounce Foot
4S - Pascal
4T - Picofarad
4U - Pounds Per Hour
4V - Cubic Meter Per Hour
4W - Ton Per Hour
4X - Kiloliter Per Hour
50 - Actual Kilograms
51 - Actual Tonnes
52 - Credits
53 - Theoretical Kilograms
54 - Theoretical Tonnes
56 - Sitas
57 - Mesh
58 - Net Kilograms
59 - Parts Per Million
5A - Barrels per Minute
5B - Batch
5C - Gallons per Thousand
5E - MMSCF/Day
5F - Pounds per Thousand
5G - Pump
5H - Stage
5I - Standard Cubic Foot
5J - Hydraulic Horse Power
5K - Count per Minute
5P - Seismic Level
5Q - Seismic Line
60 - Percent Weight
61 - Parts Per Billion
62 - Percent Per 1000 Hours
63 - Failure Rate In Time
64 - Pounds Per Square Inch Gauge
65 - Coulomb
66 - Oersteds
67 - Siemens
68 - Ampere
69 - Test Specific Scale
70 - Volt
71 - Volt-Ampere Per Pound
72 - Watts Per Pound
73 - Ampere Turn Per Centimeter
74 - Milli Pascals
76 - Gauss
77 - Mil

25-04-01 -- Net Explosive Weight Qualifier (English) (CONT)

Data Value - Definition
78 - Kilogauss
79 - Electron Volt
80 - Pounds Per Square Inch Absolute
81 - Henry
82 - Ohm
83 - Farad
84 - Kilo Pounds Per Square Inch (KSI)
85 - Foot Pounds
86 - Joules
87 - Pounds per Cubic Foot
89 - Poise
8C - Cord
8D - Duty
8P - Project
8R - Program
8S - Session
8U - Square Kilometer
90 - Saybold Universal Second
91 - Stokes
92 - Calories per Cubic Centimeter
93 - Calories per Gram
94 - Curl Units
95 - 20,000 Gallon Tankcar
96 - 10,000 Gallon Tankcar
97 - 10 Kilogram Drum
98 - 15 Kilogram Drum
99 - Watt
A8 - Dollars per Hours
AA - Ball
AB - Bulk Pack
AC - Acre
AD - Bytes
AE - Amperes per Meter
AF - Centigram
AG - Angstrom
AH - Additional Minutes
AI - Average Minutes Per Call
AJ - Cop
AK - Fathom
AL - Access Lines
AM - Ampoule
AN - Minutes or Messages
AO - Ampere-turn
AP - Aluminum Pounds Only
AQ - Anti-hemophilic Factor (AHF) Units
AR - Suppository
AS - Assortment
AT - Atmosphere
AU - Ocular Insert System
AV - Capsule
AW - Powder-Filled Vials
AX - Twenty
AY - Assembly
AZ - British Thermal Units (BTUs) per Pound
B0 - British Thermal Units (BTUs) per Cubic Foot
B1 - Barrels per Day
B2 - Bunks
B3 - Batting Pound
B4 - Barrel, Imperial
B5 - Billet
B6 - Bun
B7 - Cycles
B8 - Board
B9 - Batt
BA - Bale
BB - Base Box
BC - Bucket
BD - Bundle
BE - Beam
BF - Board Feet
BG - Bag
BH - Brush
BI - Bar
BJ - Band
BK - Book
BL - Block
BM - Bolt
BN - Bulk

25-04-01 -- Net Explosive Weight Qualifier (English) (CONT)

Data Value - Definition
BO - Bottle
BP - 100 Board Feet
BQ - Brake horse power
BR - Barrel
BS - Basket
BT - Belt
BU - Bushel
BV - Bushel, Dry Imperial
BW - Base Weight
BX - Box
BY - British Thermal Unit (BTU)
BZ - Million BTU's
C0 - Calls
C1 - Composite Product Pounds (Total Weight)
C2 - Carset
C3 - Centiliter
C4 - Carload
C5 - Cost
C6 - Cell
C7 - Centipoise (CPS)
C8 - Cubic Decimeter
C9 - Coil Group
CA - Case
CB - Carboy
CC - Cubic Centimeter
CD - Carat
CE - Centigrade, Celsius
CF - Cubic Feet
CG - Card
CH - Container
CI - Cubic Inches
CJ - Cone
CK - Connector
CL - Cylinder
CM - Centimeter
CN - Can
CO - Cubic Meters (Net)
CP - Crate
CQ - Cartridge
CR - Cubic Meter
CS - Cassette
CT - Carton
CU - Cup
CV - Cover
CW - Hundred Pounds (CWT)
CX - Coil
CY - Cubic Yard
CZ - Combo
D2 - Shares
D3 - Square Decimeter
D5 - Kilogram Per Square Centimeter
D8 - Draize Score
D9 - Dyne per Square Centimeter
DA - Days
DB - Dry Pounds
DC - Disk (Disc)
DD - Degree
DE - Deal
DF - Dram
DG - Decigram
DH - Miles
DI - Dispenser
DJ - Decagram
DK - Kilometers
DL - Deciliter
DM - Decimeter
DN - Deci Newton-Meter
DO - Dollars, U.S.
DP - Dozen Pair
DQ - Data Records
DR - Drum
DS - Display
DT - Dry Ton
DU - Dyne
DW - Calendar Days
DX - Dynes per Centimeter
DY - Directory Books
DZ - Dozen

25-04-01 -- Net Explosive Weight Qualifier (English) (CONT)

Data Value - Definition
E1 - Hectometer
E3 - Inches, Fraction--Average
E4 - Inches, Fraction--Minimum
E5 - Inches, Fraction--Actual
E7 - Inches, Decimal--Average
E8 - Inches, Decimal--Actual
E9 - English, (Feet, Inches)
EA - Each
EB - Electronic Mail Boxes
EC - Each per Month
ED - Inches, Decimal--Nominal
EE - Employees
EF - Inches, Fraction-Nominal
EG - Double-time Hours
EH - Knots
EJ - Locations
EM - Inches, Decimal-Minimum
EP - Eleven pack
EQ - Equivalent Gallons
EV - Envelope
EX - Feet, Inches and Fraction
EY - Feet, Inches and Decimal
EZ - Feet and Decimal
F1 - Thousand Cubic Feet Per Day
F2 - International Unit
F3 - Equivalent
F4 - Minim
F5 - MOL
F6 - Price Per Share
F9 - Fibers per Cubic Centimeter of Air
FA - Fahrenheit
FB - Fields
FC - 1000 Cubic Feet
FD - Million Particles per Cubic Foot
FE - Track Foot
FF - Hundred Cubic Meters
FG - Transdermal Patch
FH - Micromolar
FJ - Sizing Factor
FK - Fibers
FL - Flake Ton
FM - Million Cubic Feet
FO - Fluid Ounce
FP - Pounds per Sq. Ft.
FR - Feet Per Minute
FS - Feet Per Second
FT - Foot
FZ - Fluid Ounce (Imperial)
G2 - U.S. Gallons Per Minute
G3 - Imperial Gallons Per Minute
G4 - Gigabecquerel
G5 - Gill (Imperial)
G7 - Microfiche Sheet
GA - Gallon
GB - Gallons/Day
GC - Grams per 100 Grams
GD - Gross Barrels
GE - Pounds per Gallon
GF - Grams per 100 Centimeters
GG - Great Gross (Dozen Gross)
GH - Half Gallon
GI - Imperial Gallons
GJ - Grams per Milliliter
GK - Grams per Kilogram
GL - Grams per Liter
GM - Grams per Sq. Meter
GN - Gross Gallons
GO - Milligrams per Square Meter
GP - Milligrams per Cubic Meter
GQ - Micrograms per Cubic Meter
GR - Gram
GS - Gross
GT - Gross Kilogram
GU - Gauss per Oersteds
GV - Gigajoules
GW - Gallons Per Thousand Cubic Feet
GX - Grain
GY - Gross Yard

25-04-01 -- Net Explosive Weight Qualifier (English) (CONT)

Data Value - Definition
GZ - Gage Systems
H1 - Half Pages - Electronic
H2 - Half Liter
H4 - Hectoliter
HA - Hank
HB - Hundred Boxes
HC - Hundred Count
HD - Half Dozen
HE - Hundredth of a Carat
HF - Hundred Feet
HG - Hectogram
HH - Hundred Cubic Feet
HI - Hundred Sheets
HJ - Horsepower
HK - Hundred Kilograms
HL - Hundred Feet - Linear
HM - Miles Per Hour
HN - Millimeters of Mercury
HO - Hundred Troy Ounces
HP - Millimeter H2O
HQ - Hectare
HR - Hours
HS - Hundred Square Feet
HT - Half Hour
HU - Hundred
HV - Hundred Weight (Short)
HW - Hundred Weight (Long)
HY - Hundred Yards
HZ - Hertz
IA - Inch Pound
IB - Inches Per Second (Vibration Velocity)
IC - Counts per Inch
IE - Person
IF - Inches of Water
IH - Inhaler
II - Column-Inches
IK - Peaks per Inch (PPI)
IL - Inches per Minute
IM - Impressions
IN - Inch
IP - Insurance Policy
IT - Counts per Centimeter
IU - Inches Per Second (Linear Speed)
IV - Inches Per Second Per Second (Acceleration)
IW - Inches Per Second Per Second (Vibration Acceleration)
J2 - Joule Per Kilogram
JA - Job
JB - Jumbo
JE - Joule Per Kelvin
JG - Joule per Gram
JK - Mega Joule per Kilogram
JM - Megajoule/Cubic Meter
JO - Joint
JR - Jar
JU - Jug
K1 - Kilowatt Demand
K2 - Kilovolt Amperes Reactive Demand
K3 - Kilovolt Amperes Reactive Hour
K4 - Kilovolt Amperes
K5 - Kilovolt Amperes Reactive
K6 - Kiloliter
K7 - Kilowatt
K9 - Kilograms per Millimeter Squared (KG/MM2)
KA - Cake
KB - Kilocharacters
KC - Kilograms per Cubic Meter
KD - Kilograms Decimal
KE - Keg
KF - Kilopackets
KG - Kilogram
KH - Kilowatt Hour
KI - Kilograms/Millimeter Width
KJ - Kilosegments
KK - 100 Kilograms
KL - Kilograms/Meter
KM - Kilograms per Square Meter, Kilograms, Decimal
KO - Millequivalence Caustic Potash per Gram of Product
KP - Kilometers Per Hour

25-04-01 -- Net Explosive Weight Qualifier (English) (CONT)

Data Value - Definition
KQ - Kilopascal
KR - Kiloerontgen
KS - 1000 Pounds per Square Inch
KT - Kit
KU - Task
KV - Kelvin
KW - Kilograms per Millimeter
KX - Milliliters per Kilogram
L2 - Liters Per Minute
LA - Pounds Per Cubic Inch
LB - Pound
LC - Linear Centimeter
LE - Lite
LF - Linear Foot
LG - Long Ton
LH - Labor Hours
LI - Linear Inch
LJ - Large Spray
LK - Link
LL - Lifetime
LM - Linear Meter
LN - Length
LO - Lot
LP - Liquid Pounds
LQ - Liters Per Day
LR - Layer(s)
LS - Lump Sum
LT - Liter
LX - Linear Yards Per Pound
LY - Linear Yard
M0 - Magnetic Tapes
M1 - Milligrams per Liter
M2 - Millimeter-Actual
M3 - Mat
M4 - Monetary Value
M5 - Microcurie
M6 - Millibar
M7 - Micro Inch
M8 - Mega Pascals
M9 - Million British Thermal Units per One Thousand Cubic Feet
MA - Machine/Unit
MB - Millimeter-Nominal
MC - Microgram
MD - Air Dry Metric Ton
ME - Milligram
MF - Milligram per Sq. Ft. per Side
MG - Metric Gross Ton
MH - Microns (Micrometers)
MI - Metric
MJ - Minutes
MK - Milligrams Per Square Inch
ML - Milliliter
MM - Millimeter
MN - Metric Net Ton
MO - Months
MP - Metric Ton
MQ - 1000 Meters
MR - Meter
MS - Square Millimeter
MT - Metric Long Ton
MU - Millicurie
MV - Number of Mults
MW - Metric Ton Kilograms
MX - Mixed
MY - Millimeter-Average
MZ - Millimeter-minimum
N1 - Pen Calories
N2 - Number of Lines
N3 - Print Point
N4 - Pen Grams (Protein)
N6 - Megahertz
N7 - Parts
N9 - Cartridge Needle
NA - Milligrams per Kilogram
NB - Barge
NC - Car
ND - Net Barrels
NE - Net Liters

25-04-01 -- Net Explosive Weight Qualifier (English) (CONT)

Data Value - Definition
NF - Messages
NG - Net Gallons
NH - Message Hours
NI - Net Imperial Gallons
NJ - Number of Screens
NL - Load
NM - Nautical Mile
NN - Train
NQ - Mho
NR - Micro Mho
NS - Short Ton
NT - Trailer
NU - Newton-Meter
NV - Vehicle
NW - Newton
NX - Parts Per Thousand
NY - Pounds Per Air-Dry Metric Ton
OA - Panel
OC - Billboard
ON - Ounces per Square Yard
OP - Two pack
OT - Overtime Hours
OZ - Ounce - Av
P0 - Pages - Electronic
P1 - Percent
P2 - Pounds per Foot
P3 - Three pack
P4 - Four-pack
P5 - Five-pack
P6 - Six pack
P7 - Seven pack
P8 - Eight-pack
P9 - Nine pack
PA - Pail
PB - Pair Inches
PC - Piece
PD - Pad
PE - Pounds Equivalent
PF - Pallet (Lift)
PG - Pounds Gross
PH - Pack (PAK)
PI - Pitch
PJ - Pounds, Decimal - Pounds per Square Foot - Pound Gage
PK - Package
PL - Pallet/Unit Load
PM - Pounds-Percentage
PN - Pounds Net
PO - Pounds per Inch of Length
PP - Plate
PQ - Pages per Inch
PR - Pair
PS - Pounds per Sq. Inch
PT - Pint
PU - Mass Pounds
PV - Half Pint
PW - Pounds per Inch of Width
PX - Pint, Imperial
PY - Peck, Dry U.S.
PZ - Peck, Dry Imperial
Q1 - Quarter (Time)
Q2 - Pint U.S. Dry
Q3 - Meal
Q4 - Fifty
Q5 - Twenty-Five
Q6 - Thirty-Six
Q7 - Twenty-Four
QA - Pages - Facsimile
QB - Pages - Hardcopy
QC - Channel
QD - Quarter Dozen
QE - Photographs
QH - Quarter Hours
QK - Quarter Kilogram
QR - Quire
QS - Quart, Dry U.S.
QT - Quart
QU - Quart, Imperial
R1 - Pica

25-04-01 -- Net Explosive Weight Qualifier (English) (CONT)

Data Value - Definition
R2 - Becquerel
R3 - Revolutions Per Minute
R4 - Calorie
R5 - Thousands of Dollars
R6 - Millions of Dollars
R7 - Billions of Dollars
R8 - Roentgen Equivalent in Man (REM)
R9 - Thousand Cubic Meters
RA - Rack
RB - Radian
RC - Rod (area) - 16.25 Square Yards
RD - Rod (length) - 5.5 Yards
RE - Reel
RG - Ring
RH - Running or Operating Hours
RK - Roll-Metric Measure
RL - Roll
RM - Ream
RN - Ream-Metric Measure
RO - Round
RP - Pounds per Ream
RS - Resets
RT - Revenue Ton Miles
RU - Run
S1 - Semester
S2 - Trimester
S3 - Square Feet per Second
S4 - Square Meters per Second
S5 - Sixty-fourths of an Inch
S6 - Sessions
S7 - Storage Units
S8 - Standard Advertising Units (SAUs)
S9 - Slip Sheet
SA - Sandwich
SB - Square Mile
SC - Square Centimeter
SD - Solid Pounds
SE - Section
SF - Square Foot
SG - Segment
SH - Sheet
SI - Square Inch
SJ - Sack
SK - Split Tanktruck
SL - Sleeve
SM - Square Meter
SN - Square Rod
SO - Spool
SP - Shelf Package
SQ - Square
SR - Strip
SS - Sheet-Metric Measure
ST - Set
SV - Skid
SW - Skein
SX - Shipment
SY - Square Yard
SZ - Syringe
T0 - Telecommunications Lines in Service
T1 - Thousand pounds gross
T2 - Thousandths of an Inch
T3 - Thousand Pieces
T4 - Thousand Bags
T5 - Thousand Casings
T6 - Thousand Gallons
T7 - Thousand Impressions
T8 - Thousand Linear Inches
T9 - Thousand Kilowatt Hours
TA - Tenth Cubic Foot
TB - Tube
TC - Truckload
TD - Therms
TE - Tote
TF - Ten Square Yards
TG - Gross Ton
TH - Thousand
TI - Thousand Square Inches
TJ - Thousand Sq. Centimeters

25-04-01 -- Net Explosive Weight Qualifier (English) (CONT)

Data Value - Definition
TK - Tank
TL - Thousand Feet (Linear)
TM - Thousand Feet (Board)
TN - Net Ton (2,000 LB).
TO - Troy Ounce
TP - Ten-pack
TQ - Thousand Feet
TR - Ten Square Feet
TS - Thousand Square Feet
TT - Thousand Linear Meters
TU - Thousand Linear Yards
TV - Thousand Kilograms
TW - Thousand Sheets
TX - Troy Pound
TY - Tray
TZ - Thousand Cubic Feet
U1 - Treatments
U2 - Tablet
U3 - Ten
U5 - Two Hundred Fifty
UA - Torr
UB - Telecommunications Lines in Service - Average
UC - Telecommunications Ports
UD - Tenth Minutes
UE - Tenth Hours
UF - Usage per Telecommunications Line - Average
UH - Ten Thousand Yards
UL - Unitless
UM - Million Units
UN - Unit
UP - Troche
UQ - Wafer
UR - Application
US - Dosage Form
UT - Inhalation
UU - Lozenge
UV - Percent Topical Only
UW - Milliequivalent
UX - Dram (Minim)
UY - Fifty Square Feet
UZ - Fifty Count
V1 - Flat
V2 - Pouch
VA - Volt-ampere per Kilogram
VC - Five Hundred
VI - Vial
VP - Percent Volume
VR - Volt-ampere-reactive
VS - Visit
W2 - Wet Kilo
WA - Watts per Kilogram
WB - Wet Pound
WD - Work Days
WE - Wet Ton
WG - Wine Gallon
WH - Wheel
WI - Weight per Square Inch
WK - Week
WM - Working Months
WP - Pennyweight
WR - Wrap
WW - Milliliters of Water
X1 - Chains (Land Survey)
X2 - Bunch
X3 - Clove
X4 - Drop
X5 - Head
X6 - Heart
X7 - Leaf
X8 - Loaf
X9 - Portion
XP - Base Box per Pound
Y1 - Slice
Y2 - Tablespoon
Y3 - Teaspoon
Y4 - Tub
YD - Yard
YL - 100 Lineal Yards

25-04-01 -- Net Explosive Weight Qualifier (English) (CONT)

Data Value - Definition
YR - Years YT - Ten Yards Z1 - Lift Van Z2 - Chest Z3 - Cask Z4 - Hogshead Z5 - Lug Z6 - Conference Points Z8 - Newspaper Agate Line ZA - Bimonthly ZB - Biweekly ZC - Semiannual ZP - Page ZZ - Mutually Defined