Department
of
Defense

DoD Transportation Electronic Business (DTEB) Convention

ASC X12 Transaction Set 858 Shipment Information (Version 004010) – Freight Bill of Lading Shipment Information

VERSION 7

November 2015

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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 IC ELEMENTS IN EDI FORMAT

6.0 IC CODE LISTS

7.0 RESERVED

8.0 RESERVED

9.0 ADDITIONAL INFORMATION FOR THE DEVELOPER

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Section 1.0

INTRODUCTION

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

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

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

https://its.ustranscom.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. This section can be used to map an existing application database into the transaction set.
- Section 5.0 , when present, contains an example of the EDI transactions.
- Section 6.0, Application Code Lists, when present, identifies the DoD codes that trading partners need to exchange. This section augments the matrix presented in Section 4.0.
- Other sections contain examples of hard copy documents, examples of EDI transaction sets, segment looping logic tables, and other items that serve as references for software developers.

What's New In Version 7

Added in Version 7

DM Number	DM Description	Approval Date
1207	In the L103, DE 122 at index 185-03 and in Section 6 add the approved X12 code 'LB - Per Pound'	11/19/2015
1206	In the H301, DE 152 at index 32-01 and in Section 6 for the Accessorial/Protective Service for Air Shipments table add the following X12 codes and associated DOD definitions (* denotes borrowed code from DE 150): Code == X12 Definition == DOD Definition * 003 == Account Number Correction Charge * 020 == Address Correction *015 == Add on - Origin == Denote to mean BAHRAIN Certificate of Origin Fee * 535 == Pickup - Out of Area == Denote to mean Pickup Beyond Service Area Charge * 593 == Re-Bill Charge * AAT == Handling Charge Tax == Denote to mean DJIBOUTI Harmonized System Code * DOC == Documentation Charge == Denote to mean DJIBOUTI Documentation Fee HMA == Accessible Hazardous Material HMI == Inaccessible Hazardous Material * MSG == Miscellaneous Charge * PDY == Pickup and Delivery Beyond Service Area Charge == Denote to mean Delivery Beyond Service Area Charge	11/13/2015

Added in Version 6

DM Number	DM Description	Approval Date
1189	For the BX02 at index 2-02 we need codes added to the section 6 listing for Transportation Method Code (Mode Code). The codes to be added are: D Parcel Post 6 Military Official Mail AE Air Express A Air L Contract Carrier	8/31/2015

Added in Version 5

DM Number	DM Description	Approval Date
1184	At index 193 insert new L1 segment as 'Conditional' in data group 600 with DoD segment name "Transportation Working Capital Fund (TWCF) Recovery Fee". Add segment condition note that reads: "SEGMENT CONDITION: Required if and only if L0 SEGMENT - Transportation Working Capital Fund (TWCF) Recovery Fee Loop Identifier is used." At index 193-02 add new L102, DE 60 with DoD attributes of Conditional, R, 1/7 and DoD definition of "TWCF Recovery Fee Rate". Add element condition note that reads: "Used to pass the TWCF Recovery Fee rate applied per the DFTS contract." At index 193-03 add new L103, DE 122 with DoD attributes of Conditional, ID, 2/2 and DoD definition of "TWCF Recovery Fee Qualifier". Add code value 'PS – Per Shipment'. At index 193-04 add new L104, DE 58 with DoD attributes Mandatory, N2, 1/8 and DoD definition of "TWCF Recovery Fee". Add element usage note that reads: "The charge allowed for TWCF recovery fee." At index 193-08 add new L108, DE 150 with DoD attributes Mandatory, ID, 3/3 and DoD definition of "TWCF Recovery Fee Service Identifier". Add code value '615 – Recovery Fee' with DoD definition of "Use '615' to denote Transportation Working Capital Fund (TWCF) Recovery Fee".	6/18/2015
1183	At index 192 insert new L0 segment as 'Conditional' in data group 600 with DoD segment name "Transportation Working Capital Fund (TWCF) Recovery Fee Loop Identifier". Add loop condition note that reads: "LOOP CONDITION: Required if and only if HL SEGMENT - Transportation Working Capital Fund (TWCF) Recovery Fee Loop is used." At index 192-01 add new L001, DE 213 with DoD attributes of Mandatory, N0, 3/3 and DoD definition of "TWCF Recovery Fee Loop Identifier". Add element usage note that reads: "Use value '600' to indicate TWCF Recovery Fee loop."	6/18/2015

1182	At index 191 insert new HL segment as ‘Conditional’ in data group 600 with DoD segment name “HL SEGMENT - Transportation Working Capital Fund (TWCF) Recovery Fee Loop”. Add loop condition note that reads: “LOOP CONDITION: Required for all Defense Freight Transportation Services (DFTS) shipments.” At index 191-01 add new HL01, DE 628 with DoD attributes of Mandatory, N0, 1/12 and DoD definition of “Detail – TWCF Recovery Fee Loop”. Add element usage note that reads: “Use the value '1' for the first HL loop and increment by 1 for each successive HL loop regardless of usage of the HL loop. This segment begins the loop used to describe the TWCF recovery fee associated to DFTS shipments.” At index 191-03 add new HL03, DE 735 with DoD attributes of Mandatory, ID, 2/2. Add element usage note that reads: “This code identifies the TWCF Recovery Fee Loop.” Add code value ‘CT – Cost Type’ with DoD definition of “Use ‘CT’ to denote Transportation Working Capital Fund (TWCF) Recovery Fee”.	6/18/2015
1181	Change the NTE02, DE352, at index [112-02] DoD element name from “DTCI Offer Record Number” to “3PL Offer Record Number”.	6/18/2015
1180	Change the NTE01, DE363, at index [112-01] DoD element name from “DTCI Offer Record Number Qualifier” to “3PL Offer Record Number Qualifier”. Change code value ‘UPI’ DoD definition to read “Use ‘UPI’ to denote 3PL Offer Record Number Qualifier.”	6/18/2015
1179	Change the NTE at index [112] DoD segment name from: “DTCI Offer Record Number” to “3PL Offer Record Number”. Change segment usage note to read: “SEGMENT CONDITION: Use for 3PL coordinated shipments (DTCI or DFTS) only. Required for 3PL coordinated shipments. Matches the shipper's offer record numbers that appear in corresponding 219 Transportation Service Request and a 220 Transportation Service Response.”	6/18/2015
1178	Change the R202, DE133, at index [29-02] element usage note to read: “Use 'B' for 3PL shipments (DTCI or DFTS) to indicate the carrier the 3PL coordinator assigned to the shipment.”	6/18/2015
1177	Change the R201, DE140, at index [29-01] element usage note to read: “For non-3PL coordinated shipments (DTCI or DFTS) enter SCAC of interline and destination carrier(s) in sequence after origin carrier. The origin carrier should not be included in an interline list. For 3PL coordinated shipments (DTCI or DFTS), enter the SCAC of the carrier to whom the 3PL coordinator assigned the shipment.”	6/18/2015

1176	Change the R2 at index [29] DoD segment name from: “Interline or DTCI Carrier” to “Interline or 3PL Carrier”. Change segment usage note to read: “SEGMENT CONDITION: For non-3PL coordinated shipments (Defense Transportation Coordination Initiative (DTCI) or Defense Freight Transportation Services (DFTS)) use this segment if interline carriers are used during shipment. However, shipper systems are not required to provide Interline Carrier Routing information for rail movements. For 3PL shipments (DTCI or DFTS), use this segment to identify the carrier to whom the 3PL coordinator has assigned the shipment.”	6/18/2015
1175	Change the G6201, DE432, at index [19-01] element usage note to read: “This qualifier must appear if desired/required delivery date is used. Under applicable ocean contracts, the Contract Delivery Date will take precedence over the Required Delivery Date. Code '67' used only for 3rd Party Logistics (Defense Transportation Coordination Initiative (DTCI) or Defense Freight Transportation Services (DFTS)) shipments.”	6/18/2015
1174	Change the N902, DE127, at index [15-02] DoD element name from: "DTCI Coordinator Internal Order Number" to "3rd Party Logistics (DTCI or DFTS) Internal Order Number". Change element usage note to read: "Enter the internal order number assigned by the 3rd Party Logistics (DTCI or DFTS) coordinator's transportation management system and provided in the EDI Transportation Service Response transaction to the shipper."	6/18/2015
1173	In the N901, DE128, at index [15-01] add code “RE - Release Number” with DoD usage note that reads: “Use ‘RE’ to denote Defense Freight Transportation Services (DFTS) Internal Order Number”	6/18/2015
1172	Change the N9 at index [15] DoD segment name from: “DTCI Coordinator Internal Order Number" to "3rd Party Logistics Coordinator Internal Order Number". Change segment usage note to read: "SEGMENT CONDITION: Use for shipments with an internal order number assigned by a 3rd Party Logistics (DTCI or DFTS) coordinator's transportation management system and provided in the EDI Transportation Service Response transaction to the shipper."	6/18/2015
1171	In the BX05, DE140, at index [2-05] change forth sentence of the element usage note to read: "For Defense Transportation Coordination Initiative (DTCI) or Defense Freight Transportation Services (DFTS) shipments, enter the DTCI or DFTS coordinator's SCAC."	6/18/2015

Added in Version 4

DM Number	DM Description	Approval Date
1142	Ref Index 109-04 and Index 183-04, L504, Commodity Code Qualifier: remove Code Qualifier 'L - Last Contained Contents STCC' from the list of acceptable codes.	7/31/2014

Added in Version 3

DM Number	DM Description	Approval Date
1127	At index 188-02 add new usage note that reads: "Code that identifies the 'Reason Not Lowest Cost' service provided as defined by the "Freight Lading Bill Reason Code" table found in USTranscom Reference Data Management (TRDM), mirrored at http://www.transcom.mil/dteb/files/refdata/V_D_FRGHT_LDNG_BL4_CD.htm. Remove existing element usage note that reads: "Reference Section 6.0 of this IC for code values using applicable Reason (Not Lowest Cost) table. Common code values associated with multiple definitions prevents documentation of the entire sub-set." and note that reads "See Section 6 for list of data values". Remove table [188-02] - Reason (Not Lowest Cost) from Section 6.	12/13/2013

Added in Version 2

DM Number	DM Description	Approval Date
1105	At Section 3.0, L103; add code VT with description " Per mile per vehicle". At Section 4.0, Ref L103 Fuel Surcharge Rate Qualifier, Data Element 122 Index 180-03; add code VT with description "Per mile per vehicle".	5/9/2013
1104	At index 117-05, L005 - Freight Weight Qualifier, DE 187, change DoD Recommended Attributes min/max length from 2/2 to 1/2.	4/18/2013
1101	At index 132-05, in the LH105 - HAZMAT - US Standard Net Explosive Weight Code, DE 355, remove the code values 'KG - Kilogram' and 'LT - Liter'.	4/18/2013
1100	1. At index 126-06, in the LH106, HAZMAT - English Measurement Code, DE 355, add the code values '2R - Kilocurie', '4D - Curie', 'G2 - U.S. Gallons per Minute', 'M5 - Microcurie', 'MU - Millicurie', and 'PN - Pounds Net' and remove the code value 'H4 - Hectoliter'. Modify the ELEMENT CONDITION note to read: Required if LH107 is used. At least one LH106/LH107 or LFH05/LFH06 are required to pass the HAZMAT unit of measure and quantity. If an English and Metric unit of measure are available, both are required. 2. At index 131-05, in the LFH05 - HAZMAT - Metric Measurement Code, DE 355, modify the code list referenced in Section 6 to add the code 'H4 - Hectoliter' and remove the codes '2R - Kilocurie', '40 - Curie' (note: this code value is incorrect in the current version of the DTEB IC; the correct value for Curie is '4D' by ASC X12 standards), 'G2 - U.S. Gallons per Minute', 'GA - Gallon', 'M5 - Microcurie', 'MU - Millicurie', and 'PN - Pounds Net'. 3. At index 131-06 modify the ELEMENT CONDITION note to read: Required if LFH05 is used. At least one LH106/LH107 or LFH05/LFH06 are required to pass the HAZMAT unit of measure and quantity. If an English and Metric unit of measure are available, both are required.	4/18/2013
1099	At Section 3.0, L103; add code PM with description "Per Mile". At Section 4.0, Ref L103 Fuel Surcharge Rate Qualifier, Data Element 122 Index 180-03; add code PM with description "Per Mile".	4/11/2013
1093	Delete Type of Service Code 'DR- Door to Ramp' from L012 (Index 176-12).	3/7/2013

Added in Version 1

DM Number	DM Description	Approval Date
1043	At index 118 change segment condition note to read: "SEGMENT CONDITION: Declared value is required for all shipments that will be processed through a foreign host nation's customs and border clearance program."	3/22/2012
1028	At index 118 (DG120) add DE 58 at index 118-04 with the following DoD attributes: M(andatory), N2, 1/8. Add usage note that reads: "Use value '00' to meet X12 syntax requirements."	12/5/2011
1026	At index 109-03 change the L503 DOD Recommended Attributes min/max length from 6/8 to 1/8. Replace the DIC reference T_0 18/18 with T_0 15/19 and add usage note that reads: "DIC reference is applicable only when qualified with the value 'I' in the L504."	11/15/2011

Section 2.0

CONTROL SEGMENTS

Instruction

For detailed description of DoD data conventions for formatting Interchange Control and Functional Group segments for use among Defense Transportation Electronic Business (DTEB) trading partners refer to the DoD Transportation Electronic Business (DTEB) Convention, ASC X12 Control Segments (Version 004010), located at:

https://its.ustranscom.mil/cris/dteb/ic/trans_ics.cfm

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

Commercial Trading Partners and DoD personnel that do not hold an ITS account may view the Convention at:

http://www.transcom.mil/cmd/associated/dteb/

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Section 3.0

STANDARD IMPLEMENTATION CONVENTION

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

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

[*blank*] - Segment or data element may be used optionally

M - X12 standards designate mandatory use of segment or data element

>> - Segment or data element is mandatory for DTEB use

X - Segment or data element is not used

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

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858 Shipment Information

Functional Group ID=SI

Introduction:

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

Heading:

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

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

Detail:

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

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

Summary:

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

Transaction Set Notes

1. BX05 contains the Standard Carrier Alpha Code (SCAC) of the original roadhaul carrier receiving the shipment.

2. If the hazardous endorsement (LH204) is "NONE", then use of LH204 is mandatory. However, the receiver must consider it to be blanks when printing a paper document.

3. All receivers of the EDI transactions covering empty tank cars which last contained hazardous commodities must be able to add the constant words: RESIDUE: LAST CONTAINED ahead of the contents of LHE01 and add the constant: RESIDUE following the contents of the LHE02 when printing paper documents.

4. When used in the hazardous material loop, the segment will identify the various certification, exemption or shipper-related numbers that relate to the specific line item of the shipment that are in addition to the UN/UA number reference in the LH1 segment.

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

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
M	**ST01**	**143**	**Transaction Set Identifier Code** Code uniquely identifying a Transaction Set [1-01] Transaction Set Identifier Code (DG 10) 858 Shipment Information [1-01] Shipment Information	**M ID 3/3**
M	**ST02**	**329**	**Transaction Set Control Number** Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set [1-02] Transaction Set Control Number (DG 10) 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**

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

Data Element Summary

	Ref. Des.	Data Element	Name		Attributes
M	**BX01**	**353**	**Transaction Set Purpose Code**		**M ID 2/2**
			Code identifying purpose of transaction set		
			[2-01] Transaction Set Purpose Code (DG 10)		
			00	Original	
				[2-01] Original	
			01	Cancellation	
				[2-01] Cancellation	
			04	Change	
				[2-01] Change	
			14	Advance Notification	
				[2-01] Advance Notification	
			20	Final Transmission	
				[2-01] Final Transmission	
M	**BX02**	**91**	**Transportation Method/Type Code**		**M ID 1/2**
			Code specifying the method or type of transportation for the shipment		
			[2-02] Transportation Method Code (Mode Code) (DG 10)		
			6	Military Official Mail	
				[2-02] Military Official Mail	
			A	Air	
				[2-02] Air	
			AE	Air Express	
				[2-02] Air Express	
			AF	Air Freight	
				[2-02] Air Freight	
			AH	Air Taxi	
				FAA approved carrier utilizing a 1 or 2 engine aircraft for on demand service	
				[2-02] Air Taxi	
			B	Barge	
				[2-02] Barge	
			BU	Bus	
				[2-02] Bus	
			D	Parcel Post	
				[2-02] Parcel Post	

DA	Driveaway Service
	Movement of wheeled vehicle, wheeled equipment, or wheeled chassis of which is powered by a self-contained power unit (includes tractor/trailer combination)
	[2-02] Driveaway Service
DW	Driveaway, Truckaway, Towaway
	DoD policy includes all three terms in one. They mean collectively, a transportation method whereby a vehicle is moved under its own power by a driver, or loaded into or upon a carrier's equipment, or towed by carrier's equipment
	[2-02] Driveaway, Truckaway, Towaway
ED	European or Pacific Distribution System
	Military operated logistic distribution system within the indicated theaters of operation
	[2-02] European or Pacific Distribution System Use 'ED' to denote Air Mobility Command (AMC) Transportation Method/Type Code
FA	Air Freight Forwarder
	A firm other than a railroad, motor, or water carrier, which represents itself as a common carrier and undertakes to assemble and consolidate shipments or provide for same and assumes responsibility for the air transportation of such property from point of receipt to its destination. Delivery is "Held in Bond"
	[2-02] Air Freight Forwarder
IP	New Code Added by IC
	[2-02] Intermodal (Personal Property)
J	Motor
	[2-02] Motor Use 'J' to denote Motor, Truckload
L	Contract Carrier
	[2-02] Contract Carrier
LA	Logair
	Air Force long-term contract airlift service within the continental United States for the movement of cargo in support of the logistics systems of the Military Services and Defense Agencies
	[2-02] Logair Use 'LA' to denote Military Air
LD	New Code Added by IC
	[2-02] Local Delivery
LT	Less Than Trailer Load (LTL)
	[2-02] Less Than Trailer Load (LTL) Use 'LT' to denote Motor, Less than Truckload
MP	Motor (Package Carrier)
	[2-02] Motor (Package Carrier)
MS	New Code Added by IC
	[2-02] Military Sealift Command (MSC), Controlled, Contract, or Arranged Space
PL	Pipeline
	[2-02] Pipeline
R	Rail
	[2-02] Rail

			RO	New Code Added by IC	
				[2-02] Ocean (Roll on - Roll off)	
			SB	Shipper Agent	
				Agent for piggyback code consolidation	
				[2-02] Shipper Agent	
			SC	Shipper Agent (Truck)	
				Motor carrier agent for piggyback trailer consolidators	
				[2-02] Shipper Agent (Truck)	
			SD	Shipper Association	
				Non-profit cooperative consolidator or distributors of shipments by member firms	
				[2-02] Shipper Association	
			SF	New Code Added by IC	
				[2-02] Surface Freight Forwarder	
			TA	Towaway Service	
				Movement of shipper owned trailers or semi-trailers loaded and/or pulled by carrier furnished power unit	
				[2-02] Towaway Service	
			U	Private Parcel Service	
				[2-02] Private Parcel Service Use 'U' to denote Package Express	
			W	Inland Waterway	
				[2-02] Inland Waterway	
			WP	Water or Pipeline Intermodal Movement	
				A water move by barge or tanker followed by a pipeline move to the destination	
				[2-02] Water or Pipeline Intermodal Movement	
			X	Intermodal (Piggyback)	
				[2-02] Intermodal (Piggyback) Use 'X' to denote Rail Intermodal Piggyback(TOFC/COFC)	
M	**BX03**	**146**	**Shipment Method of Payment**	**M**	**ID 2/2**
			Code identifying payment terms for transportation charges		
			[2-03] Method of Payment (DG 10) Use only 'TP' for ocean shipments only.		
			CC	Collect	
				[2-03] Collect	
			CD	Collect on Delivery	
				[2-03] Collect on Delivery	
			PP	Prepaid (by Seller)	
				[2-03] Prepaid (by Seller)	
			TP	Third Party Pay	
				[2-03] Third Party Pay	
>>	**BX04**	**145**	**Shipment Identification Number**	**O**	**AN 1/30**
			Identification number assigned to the shipment by the shipper that uniquely identifies the shipment from origin to ultimate destination and is not subject to modification; (Does not contain blanks or special characters)		
			[2-04] Bill of Lading/Shipment ID Number (DG 10) Carry either original or most recent bill of lading number or shipment identification number here. For ocean shipments, use TCN as shipment identifier. Do not use any punctuation or special characters.		

>>	**BX05**	**140**	**Standard Carrier Alpha Code**	**O**	**ID 2/4**
			Standard Carrier Alpha Code [2-05] Transportation Company Tendered To (SCAC) (DG 10) Use SCAC of origin carrier. SCAC should be validated against the National Motor Freight Traffic Association (NMFTA) SCAC reference file. For ocean shipments, enter 'NONE' if carrier is unknown. This entry represents the booked carrier for ocean shipments, not the carrier that actually transports the shipment. For Defense Transportation Coordination Initiative (DTCI) or Defense Freight Transportation Services (DFTS) shipments, enter the DTCI or DFTS coordinator's SCAC. SOURCE: Directory of Standard Multi-Model Carriers and Tariff Agents Codes (SCAC-STAC), NMF 101 Series available from National Motor Freight Association, Inc.		
X	**BX06**	**188**	**Weight Unit Code**	**O**	**ID 1/1**
			Refer to 004010 Data Element Dictionary for acceptable code values.		
>>	**BX07**	**147**	**Shipment Qualifier**	**O**	**ID 1/1**
			Code defining relationship of this shipment with respect to other shipments given to the carrier at the same time [2-07] Bill Purpose/Application Type Code (DG 10)		
			A — Sub for Assembly [2-07] Sub for Assembly Use 'A' to denote OCEAN CARGO SHIPPING INSTRUCTIONS Break-Bulk		
			B — Bill of Lading for Individual Shipment [2-07] Bill of Lading for Individual Shipment		
			C — Consolidated Shipment [2-07] Consolidated Shipment Use 'C' to denote OCEAN CARGO SHIPPING INSTRUCTIONS Consolidation Header (Stand-Alone)		
			E — Empty Equipment Billing (Non-Revenue) [2-07] Empty Equipment Billing (Non-Revenue) Use 'E' to denote OCEAN CARGO SHIPPING INSTRUCTIONS Container (Skeleton SI)		
			F — Stop-off Shipment Shipment with sub-shipments to be loaded or unloaded enroute to final destination [2-07] Stop-off Shipment Use 'F' to denote Negotiated Rates for Foreign Military Sales Bills of Lading		
			G — Switch Waybill [2-07] Switch Waybill Use 'G' to denote Negotiated Rates for Tailored Transportation Contract Traffic Bill of Lading		
			M — Master Bill of Lading for Assembly, Distribution and Volume Shipment A bill of lading with multiple delivery locations [2-07] Master Bill of Lading for Assembly, Distribution and Volume Shipment Use 'M' to denote Commercial Rates for Foreign Military Sales Bills of Lading		
			Z — Commercial Zone Pick-up [2-07] Commercial Zone Pick-up Use 'Z' to denote OCEAN CARGO SHIPPING INSTRUCTIONS Container.		
X	**BX08**	**226**	**Section Seven Code**	**O**	**ID 1/1**
			Refer to 004010 Data Element Dictionary for acceptable code values.		

	BX09	**195**	**Capacity Load Code**	**O**	**ID 1/1**
			Code specifying type of capacity load		
			[2-09] Vehicle Fully Loaded (Capacity Load Status) (DG 10) ELEMENT CONDITION: Include if shipment is tendered as truckload.		
			F Full Capacity		
			[2-09] Full Capacity		
	BX10	**160**	**Status Report Request Code**	**O**	**ID 1/1**
			Code used by the shipper to specify that an automatic status report is requested when the shipment is delivered		
			[2-10] Defense Transportation Tracking System Reporting Qualifier (DG 10) Use of this element results in immediate Military Surface Deployment and Distribution Command (SDDC) processing for DTTS shipments. ELEMENT CONDITION: Include if the Defense Transportation Tracking System (DTTS) is required.		
			R Automatic Status Report Requested		
			[2-10] Automatic Status Report Requested		
X	**BX11**	**501**	**Customs Documentation Handling Code**	**O**	**ID 2/2**
			Refer to 004010 Data Element Dictionary for acceptable code values.		
X	**BX12**	**199**	**Confidential Billing Request Code**	**O**	**ID 1/1**
			Refer to 004010 Data Element Dictionary for acceptable code values.		
X	**BX13**	**714**	**Goods and Services Tax Reason Code**	**O**	**ID 1/1**
			Refer to 004010 Data Element Dictionary for acceptable code values.		
	BX14	**346**	**Application Type**	**O**	**ID 2/2**
			Code identifying an application		
			[2-14] Application Type (DG 10) Use the following migration code value to denote the DoD definition as indicated: ELEMENT CONDITION: Use when broker.		
			21 Vessel Import Manifest (Canadian)		
			22 Vessel Export Manifest (Canadian)		
			23 Vessel In-Transit Manifest (Canadian)		
			24 Vessel Consignment Import Manifest (Canadian)		
			25 Vessel Consignment Export Manifest (Canadian)		
			26 Vessel Consignment In-Transit Manifest (Canadian)		
			27 Rail Import Manifest (Canadian)		
			28 Rail Export Manifest (Canadian)		
			29 Rail In-Transit Manifest (Canadian)		
			30 House Bill of Lading (Canada)		
			31 Re-Manifest Manifest (Canadian)		
			32 Abstract Bill of Lading (Canada)		
			33 Rail Consignment Import		
			34 Rail Consignment Export		
			35 Rail Consignment In-Transit		
			36 Rail Manifest		
			37 Highway Import		
			38 Highway Export		
			39 Highway In-Transit		
			40 Highway Consignment Import		
			41 Highway Consignment Export		
			42 Highway Consignment In-Transit		
			43 Air Import		
			44 Air Export		
			45 Air In-Transit		

46	Air Consignment Import
47	Air Consignment Export
48	Air Consignment In-Transit
AN	Arrival Notice
AT	Appointment
BD	Financial Institution Account Statement
BF	New Code Added by IC
	[2-14] [Migration Code] Broker Files
BG	Government Bill of Lading
BH	Privately Owned Personal Property Bill of Lading
	A Government bill of lading used to request movement and storage services for Government sponsored personal property shipments
BL	Bill of Lading
BN	Booking
BR	Accounts Reconciliation
BT	Balance and Transaction Reporting
CD	Consolidator's Invoice
CF	Controlled Disbursement Funding
CI	Commercial Invoice
CL	Cash Letter
CO	Consolidation
DL	Deposit List
DO	Delivery Order
DT	Depository Transfer
EP	Electronic Presentments
FA	Full Account Reconciliation
FR	Freight Tender
	A tender of rates for services provided by a commercial carrier to move all classifications of Government freight other than personal property shipments
HR	Personal Property Tender
	A tender of rates offered by a carrier for the movement and/or storage of Government sponsored personal property shipments
IS	Transportation Control Movement Document (TCMD)
LB	Lockbox Summary
LS	Load Summary
LT	Load Tender - Truckload (TL) Carrier Only
	Used by a shipper to inform carrier that a particular load is available or becoming available for movement; also signifies an advance pick-up notification
MF	Manifest
PC	Partial Load Tender, Carrier Consolidate
PI	Pro Forma Invoice
PL	Paid List (All Debits)
PP	Point to Point Rate Application
PS	Partial Load Tender, Shipper Consolidate
R1	Simulation of Single Shipment Less Release Units (U.S. Department of Defense)
R2	Simulation of Consolidation of Vans, Trailers, or Pallets (U.S. Department of Defense)
R3	Simulation of Consolidation of Packaging Containers (U.S. Department of Defense)

R4	Simulation of Multiple Level Consolidation (U.S. Department of Defense)
RD	Deposit Reconciliation
RO	Reassociation Report
RP	Partial Account Reconciliation
RQ	Simulation Single Shipment Release Unit (U.S. Department of Defense)
RR	Range Reconciliation
RS	Scale Rate Application
S1	Single Package Shipment Status
S2	Multiple Package Shipment Status
SI	Single Shipment Invoice
SL	Shipper's Letter of Instruction
	Used by a shipper to inform recipient of documentation requirements (completion, preparation, and distribution of paperwork) required for the movement of goods
SP	Multiple Shipment Invoice
SS	Single Shipment Status
T1	Single Shipment Less Release Units (U.S. Department of Defense)
T2	Consolidation of Vans, Trailers, or Pallets (U.S. Department of Defense)
T3	Consolidation of Packaging Containers (U.S. Department of Defense)
T4	Multiple Level Consolidation (U.S. Department of Defense)
TF	Trailer Forecast
TG	Government Guaranteed Traffic Tender
TM	Trailer Manifest
TQ	Single Shipment Release Unit (U.S. Department of Defense)
ZZ	Mutually Defined

Segment: **BNX** **Rail Shipment Information**
Position: 040
Loop:
Level: Heading
Usage: Optional
Max Use: 1
Purpose: To transmit rail-specific shipment data
Syntax Notes:
Semantic Notes:
Comments:
Notes: [3] BNX SEGMENT - Shipment Weight and Billing (DG 10)
SEGMENT CONDITION: Use when weight and billing data are required.

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
>>	**BNX01**	**460**	**Shipment Weight Code** Code indicating the way by which weights are obtained for a particular shipment [3-01] Shipment Weight Code (DG 10) A Shipper's Weight Agreement [3-01] Shipper's Weight Agreement	**O**	**ID 1/1**
X	**BNX02**	**129**	**Referenced Pattern Identifier**	**O**	**AN 1/13**
>>	**BNX03**	**11**	**Billing Code** Code indicating type of Bill [3-03] Billing Code (DG 10) S Single Shipment Billing [3-03] Single Shipment Billing	**O**	**ID 1/1**
X	**BNX04**	**223**	**Repetitive Pattern Number**	**O**	**N0 5/5**

Segment: **N9** **Reference Identification**
Position: 060
Loop:
Level: Heading
Usage: Optional
Max Use: 30
Purpose: To transmit identifying information as specified by the Reference Identification Qualifier
Syntax Notes:
1 At least one of N902 or N903 is required.
2 If N906 is present, then N905 is required.
3 If either C04003 or C04004 is present, then the other is required.
4 If either C04005 or C04006 is present, then the other is required.
Semantic Notes:
1 N906 reflects the time zone which the time reflects.
2 N907 contains data relating to the value cited in N902.
Comments:
Notes:
[4] N9 SEGMENT - Transaction Content ID (DG 10)
SEGMENT CONDITION: Required for all shipments except by ocean.
[5] N9 SEGMENT - Route Order/Release No/Emergency Routings (DG 10)
SEGMENT CONDITION: Include this segment when moving a Tailored Transportation Contract (TTC) Traffic or SDDC routed shipment.
[6] N9 SEGMENT - Carrier Way/Freight Bill Number (DG 10)
SEGMENT CONDITION: Include this segment if the freight bill number is available.
[7] N9 SEGMENT - Authority Number (Contract/PO) (DG 10)
SEGMENT CONDITION: Use this segment if an authority number applies to the shipment.
[8] N9 SEGMENT - Service Agency Code (DG 10)
SEGMENT CONDITION: Use for Tailored Transportation Contract (TTC) Traffic only; not used for DLA. GFM will not cost DLA TTC shipments.
[9] N9 SEGMENT - Container TCN (DG 10)
SEGMENT CONDITION: Required for OCEAN CARGO SHIPPING INSTRUCTIONS. Not used otherwise.
[10] N9 SEGMENT - Container Transportation Tracking Number (TTN) (DG 10)
SEGMENT CONDITION: Required for OCEAN CARGO SHIPPING INSTRUCTIONS when moving unit move cargo and Transportation Tracking Number is applicable.
[11] N9 SEGMENT - Carrier Booking Number (DG 10)
SEGMENT CONDITION: Required for OCEAN CARGO SHIPPING INSTRUCTIONS - Direct Booking. Not used otherwise.
[12] N9 SEGMENT - Trade Route Number (DG 10)
SEGMENT CONDITION: Required for ocean shipments. Identifies the trade route a shipment was booked/moved on.
[13] N9 SEGMENT - Vessel Name (DG 10)
SEGMENT CONDITION: Required for OCEAN CARGO SHIPPING INSTRUCTIONS - Direct Booking. Not used otherwise.
[14] N9 SEGMENT - Carrier Voyage Number (DG 10)
SEGMENT CONDITION: Required for OCEAN CARGO SHIPPING INSTRUCTIONS.
[15] N9 SEGMENT - 3rd Party Logistics Coordinator Internal Order Number (DG 10)
SEGMENT CONDITION: Use for shipments with an internal order number assigned by a 3rd Party Logistics (DTCI or DFTS) coordinator's transportation management system and provided in the EDI Transportation Service Response transaction to the shipper.

Data Element Summary

	Ref. Des.	Data Element	Name		Attributes
M	**N901**	**128**	**Reference Identification Qualifier**		**M ID 2/3**
			Code qualifying the Reference Identification		
			[4-01] Transaction Content ID Qualifier (DG 10) [5-01] Route Order/Release No/Emergency Routings Qualifier (DG 10) [6-01] Carrier Way/Freight Bill Number Qualifier (DG 10) [7-01] Authority Number (Contract/PO) Qualifier (DG 10) [8-01] Service Agency Code Qualifier (DG 10) [9-01] TCN for Each Container Qualifier (DG 10) [10-01] Container Transportation Tracking Number (TTN) Qualifier (DG 10) [11-01] Carrier Booking Number Qualifier (DG 10) [12-01] Trade Route Number Qualifier (DG 10) [13-01] Vessel Name Qualifier (DG 10) [14-01] Carrier Voyage Number Qualifier (DG 10) [15-01] 3rd Party Logistics (DTCI or DFTS) Internal Order Number Qualifier (DG 10)		
			18	Plan Number	
				The unique identification number assigned for a defined contribution plan	
				[10-01] Plan Number Use '18' to denote Container Transportation Tracking Number (TTN) Qualifier	
			ABS	Vessel Name	
				[13-01] Vessel Name	
			BN	Booking Number	
				[11-01] Booking Number	
			CB	Combined Shipment	
				[15-01] Combined Shipment Use 'CB' to denote DTCI Coordinator Internal Order Number	
			CN	Carrier's Reference Number (PRO/Invoice)	
				[6-01] Carrier's Reference Number (PRO/Invoice)	
			CT	Contract Number	
				[7-01] Contract Number	
			FI	File Identifier	
				[4-01] File Identifier	
			PO	Purchase Order Number	
				[7-01] Purchase Order Number	
			RE	Release Number	
				[15-01] Release Number Use 'RE' to denote Defense Freight Transportation Services (DFTS) Internal Order Number	
			RG	Route Order Number-Domestic	
				[5-01] Route Order Number-Domestic	
			RH	Route Order Number-Export	
				[5-01] Route Order Number-Export	
			RJ	Route Order Number-Emergency	
				[5-01] Route Order Number-Emergency	
			RU	Route Number	
				[12-01] Route Number	
			SV	Service Charge Number	
				[8-01] Service Charge Number	

			TG	Transportation Control Number (TCN)		
				[9-01] Transportation Control Number (TCN)		
			V3	Voyage Number		
				[14-01] Voyage Number		
>>	**N902**	**127**	**Reference Identification**		**X**	**AN 1/30**
			Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier			
			[4-02] Transaction Content ID (DG 10) This data element identifies the application contents of the 858. The following DoD-unique codes should be used by all trading partners to identify the data content in the transaction set: [5-02] Route Order/Release No/Emergency Routings (DG 10) [6-02] Carrier Way/Freight Bill Number (DG 10) [7-02] Authority Number (Contract/PO) (DG 10) Movements under contracts need to reflect the subcontract number for ocean shipments. [8-02] Service Agency Code (DG 10) [9-02] TCN for Each Container (DG 10) [10-02] Container Transportation Tracking Number (TTN) (DG 10) [11-02] Carrier Booking Number (DG 10) [12-02] Trade Route Number (DG 10) [13-02] Vessel Name (DG 10) Shippers should take great care in spelling vessel name correctly. [14-02] Carrier Voyage Number (DG 10) [15-02] 3rd Party Logistics (DTCI or DFTS) Internal Order Number (DG 10) Enter the internal order number assigned by the 3rd Party Logistics (DTCI or DFTS) coordinator's transportation management system and provided in the EDI Transportation Service Response transaction to the shipper.			
			A	New Code Added by IC		
				[8-02] Army		
			B	New Code Added by IC		
				[8-02] Defense Mapping Agency		
			CI	New Code Added by IC		
				[4-02] Cost Information		
			CR	New Code Added by IC		
				[4-02] Cost Request		
			DC	New Code Added by IC		
				[4-02] Doubtful Claim		
			F	New Code Added by IC		
				[8-02] Air Force		
			M	New Code Added by IC		
				[8-02] Marine Corps		
			N	New Code Added by IC		
				[8-02] Navy		
			P	New Code Added by IC		
				[8-02] Coast Guard		
			S	New Code Added by IC		
				[8-02] Defense Logistics Agency		
			SC	New Code Added by IC		
				[4-02] Shipment and Cost Information		
			SI	New Code Added by IC		
				[4-02] Shipment Information		

			SM New Code Added by IC		
			[4-02] Supplemental Claim		
			SP New Code Added by IC		
			[4-02] Supplemental Bill		
			U New Code Added by IC		
			[8-02] GSA		
			W New Code Added by IC		
			[8-02] Army and AF Exchange		
			X New Code Added by IC		
			[8-02] Multi-Service		
			Y New Code Added by IC		
			[8-02] Non DoD - except Coast Guard		
X	**N903**	**369**	**Free-form Description**	**X**	**AN 1/45**
	N904	**373**	**Date**	**O**	**DT 8/8**
			Date expressed as CCYYMMDD		
			[6-04] Carrier Way/Freight Bill Date (DG 10) [7-04] Authority Number (Contract/PO) Date (DG 10)		
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**	**M**	**ID 2/3**
			Code qualifying the Reference Identification		
			Refer to 004010 Data Element Dictionary for acceptable code values.		
X	**C04002**	**127**	**Reference Identification**	**M**	**AN 1/30**
			Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier		
X	**C04003**	**128**	**Reference Identification Qualifier**	**X**	**ID 2/3**
			Code qualifying the Reference Identification		
			Refer to 004010 Data Element Dictionary for acceptable code values.		
X	**C04004**	**127**	**Reference Identification**	**X**	**AN 1/30**
			Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier		
X	**C04005**	**128**	**Reference Identification Qualifier**	**X**	**ID 2/3**
			Code qualifying the Reference Identification		
			Refer to 004010 Data Element Dictionary for acceptable code values.		
X	**C04006**	**127**	**Reference Identification**	**X**	**AN 1/30**
			Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier		

Segment: **Y7** **Priority**
Position: 080
Loop:
Level: Heading
Usage: Optional
Max Use: 1
Purpose: To assign a priority to a booking which would increase the possibility that this cargo would be booked on said voyage and not be shut out
Syntax Notes: **1** If either Y702 or Y703 is present, then the other is required.
Semantic Notes: **1** Y705 is the date specified by the shipper indicating when the shipment is required at the consignee's location.
Comments:
Notes: [16] Y7 SEGMENT - Transportation Priority Code (DG 10)
SEGMENT CONDITION: Use this segment if Military Standard Requisitioning and Issue Procedures (MILSTRIP) apply.

Data Element Summary

	Ref. Des.	Data Element	Name		Attributes	
>>	**Y701**	**467**	**Priority**		**O**	**N0 1/1**
			Number indicating importance			
			[16-01] Transportation Priority Code (DG 10)			
			1	New Code Added by IC		
				[16-01] Level 1		
			2	New Code Added by IC		
				[16-01] Level 2		
			3	New Code Added by IC		
				[16-01] Level 3		
X	**Y702**	**470**	**Priority Code**		**X**	**N0 1/1**
X	**Y703**	**471**	**Priority Code Qualifier**		**X**	**AN 1/1**
X	**Y704**	**468**	**Port Call File Number**		**O**	**N0 4/4**
X	**Y705**	**373**	**Date**		**O**	**DT 8/8**

Segment: **C3** **Currency**
Position: 090
Loop:
Level: Heading
Usage: Optional
Max Use: 1
Purpose: To specify the currency being used in the transaction set
Syntax Notes:
Semantic Notes:
1 C301 is the billing currency.
2 C303 is the payment currency.
3 C304 is the rated currency.
Comments:
1 Currency is implied by the code for the country in whose currency the monetary amounts are specified.
Notes: [17] C3 SEGMENT - Currency Code (DG 10)
SEGMENT CONDITION: This segment indicates the currency used for the bill of lading. The segment is not required and will not be used when currency is in U.S. Dollars.

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
M	**C301**	**100**	**Currency Code** Code (Standard ISO) for country in whose currency the charges are specified [17-01] Currency Code (DG 10) SOURCE: Code for Representation of Names of Countries, Geopolitical Entities, Names, and Codes (GENC), is represented in the National System for Geospatial Intelligence (NSG) GENC Registry and mirrored at http://www.transcom.mil/dteb/files/refdata/V_CTRY_DOD.htm. Codes for Representation of Currencies and Funds, ISO 4217, is available from American National Standards Institute.	**M**	**ID 3/3**
X	**C302**	**280**	**Exchange Rate**	**O**	**R 4/10**
X	**C303**	**100**	**Currency Code**	**O**	**ID 3/3**
X	**C304**	**100**	**Currency Code**	**O**	**ID 3/3**

Segment: **G62** **Date/Time**
Position: 110
Loop:
Level: Heading
Usage: Optional (Must Use)
Max Use: 10
Purpose: To specify pertinent dates and times
Syntax Notes:
1 At least one of G6201 or G6203 is required.
2 If either G6201 or G6202 is present, then the other is required.
3 If either G6203 or G6204 is present, then the other is required.
Semantic Notes:
Comments:
Notes:
[18] G62 SEGMENT - Bill of Lading/Shipping Instruction Prepared Date (DG 10)
[19] G62 SEGMENT - Desired/Required Delivery (DG 10)
[20] G62 SEGMENT - Carrier's Pickup (DG 10)
SEGMENT CONDITION: Not required for ocean shipments. Required for all other shipment information transactions except advanced shipment notification.
[21] G62 SEGMENT - Date Shipped to POE (DG 10)
SEGMENT CONDITION: Use only for ocean shipments.
[22] G62 SEGMENT - Adjusted Date Shipped to POE (DG 10)
SEGMENT CONDITION: Use only for ocean shipment.
[23] G62 SEGMENT - Delivery (DG 10)
SEGMENT CONDITION: Use segment when date of delivery is available.
[24] G62 SEGMENT - Sailing Date (DG 10)
SEGMENT CONDITION: Required for OCEAN CARGO SHIPPING INSTRUCTIONS. Not used otherwise.

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
>>	**G6201**	**432**	**Date Qualifier** Code specifying type of date [18-01] Date Bill of Lading/Shipping Instruction Prepared Date Qualifier (DG 10) [19-01] Desired/Required Delivery Date Qualifier (DG 10) This qualifier must appear if desired/required delivery date is used. Under applicable ocean contracts, the Contract Delivery Date will take precedence over the Required Delivery Date. Code '67' used only for 3rd Party Logistics (Defense Transportation Coordination Initiative (DTCI) or Defense Freight Transportation Services (DFTS)) shipments. [20-01] Carrier's Pickup Date Qualifier (DG 10) SDDC will accept only code value '86' from shippers. [21-01] Date Shipped to POE Qualifier (DG 10) [22-01] Adjusted Date Shipped to POE Qualifier (DG 10) [23-01] Date of Delivery Qualifier (DG 10) [24-01] Sailing Date Qualifier (DG 10)	**X ID 2/2**
			05 Sailing Date [24-01] Sailing Date	
			10 Requested Ship Date/Pick-up Date [21-01] Requested Ship Date/Pick-up Date	
			35 Delivered on This Date [23-01] Delivered on This Date	
			54 Deliver No Later Than Date [19-01] Deliver No Later Than Date Use '54' to denote Required Delivery Date	
			67 Delivered By This Date [19-01] Delivered By This Date Use '67' to denote Mandatory Delivery Date	

			68	Requested Delivery Date		
				[19-01] Requested Delivery Date Use '68' to denote Desired Delivery Date		
			76	Bill of Lading		
				[18-01] Bill of Lading		
			86	Actual Pickup Date		
				[20-01] Actual Pickup Date		
			BB	Transaction Control Date		
				The date when a transaction was prepared		
				[22-01] Transaction Control Date		
>>	**G6202**	**373**	**Date**		**X**	**DT 8/8**
			Date expressed as CCYYMMDD			
			[18-02] Date Bill of Lading/Shipping Instruction Prepared Date (DG 10) The date on which the bill of lading was printed at the origin installation. [19-02] Desired/Required Delivery Date (DG 10) [20-02] Carrier's Pickup Date (DG 10) [21-02] Date Shipped to POE (DG 10) [22-02] Adjusted Date Shipped to POE (DG 10) [23-02] Date of Delivery (DG 10) [24-02] Sailing Date (DG 10)			
>>	**G6203**	**176**	**Time Qualifier**		**X**	**ID 1/2**
			Code specifying the reported time			
			[20-03] Carrier's Pickup Time Qualifier (DG 10) ELEMENT CONDITION: This element is required for Defense Transportation Tracking System (DTTS) shipments. [22-03] Adjusted Time Shipped to POE Qualifier (DG 10)			
			8	Actual Pickup Time		
				[20-03] Actual Pickup Time		
			W	Effective Time		
				[22-03] Effective Time		
>>	**G6204**	**337**	**Time**		**X**	**TM 4/8**
			Time expressed in 24-hour clock time as follows: HHMM, or HHMMSS, or HHMMSSD, or HHMMSSDD, where H = hours (00-23), M = minutes (00-59), S = integer seconds (00-59) and DD = decimal seconds; decimal seconds are expressed as follows: D = tenths (0-9) and DD = hundredths (00-99)			
			[20-04] Carrier's Pickup Time (DG 10) Use format HHMM. ELEMENT CONDITION: This element is required for DTTS shipments. [22-04] Adjusted Time Shipped to POE (DG 10) Use format HHMMSS.			

>>	**G6205**	**623**	**Time Code**	**O**	**ID 2/2**

Code identifying the time. In accordance with International Standards Organization standard 8601, time can be specified by a + or - and an indication in hours in relation to Universal Time Coordinate (UTC) time; since + is a restricted character, + and - are substituted by P and M in the codes that follow
[20-05] Time Zone Indicator (DG 10)
If DTTS shipment, this segment occurs twice; once with code value 'LT' for local time and once with 'GM' for Greenwich time. If shipment is other than DTTS, use 'LT' local time only. Repeat G6201 and G6202 for both occurrences of the segment.
SOURCE: ISO 8601 available from American National Standards Institute
[22-05] Adjusted Time Code (DG 10)
SOURCE: ISO 8601 available from American National Standards Institute

GM	Greenwich Mean Time
	[20-05] Greenwich Mean Time
LT	Local Time
	[20-05] Local Time [22-05] Local Time

Segment: **PER** **Administrative Communications Contact**
Position: 120
Loop:
Level: Heading
Usage: Optional
Max Use: 3
Purpose: To identify a person or office to whom administrative communications should be directed
Syntax Notes:
1 If either PER03 or PER04 is present, then the other is required.
2 If either PER05 or PER06 is present, then the other is required.
3 If either PER07 or PER08 is present, then the other is required.
Semantic Notes:
Comments:
Notes: [25] PER SEGMENT - Shipment Contact (DG 10)
SEGMENT CONDITION: Use segment when telephone contact may be required with person receiving shipment.
[26] PER SEGMENT - Emergency Response Telephone No. (DG 10)
SEGMENT CONDITION: Use segment when shipment requires an emergency telephone contact.

Data Element Summary

	Ref. Des.	Data Element	Name		Attributes	
M	**PER01**	**366**	**Contact Function Code**		**M**	**ID 2/2**
			Code identifying the major duty or responsibility of the person or group named			
			[25-01] Shipment Contact Qualifier (DG 10) [26-01] Emergency Response Telephone No. Function Code (DG 10)			
			EF	Emergency Contact-Military Traffic Management Command (MTMC)		
				[26-01] Emergency Contact-Military Traffic Management Command (MTMC) Use 'EF' to denote Emergency Contact - Military Surface Deployment and Distribution Command (SDDC)		
			IC	Information Contact		
				[25-01] Information Contact		
X	**PER02**	**93**	**Name**		**O**	**AN 1/60**
>>	**PER03**	**365**	**Communication Number Qualifier**		**X**	**ID 2/2**
			Code identifying the type of communication number			
			[25-03] Shipment Contact Qualifier (DG 10) [26-03] Emergency Response Telephone No. Qualifier (DG 10)			
			AU	Defense Switched Network		
				Department of Defense telecommunications system and successor of the Automatic Voice Network (AUTOVON)		
				[25-03] Defense Switched Network [26-03] Defense Switched Network		
			FT	Federal Telecommunications System (FTS)		
				[25-03] Federal Telecommunications System (FTS)		
			IT	International Telephone		
				[26-03] International Telephone		
			TE	Telephone		
				[25-03] Telephone [26-03] Telephone		

>>	**PER04**	**364**	**Communication Number**	**X**	**AN 1/80**
			Complete communications number including country or area code when applicable [25-04] Shipment Contact Telephone No. (DG 10) Telephone number of shipment POC. [26-04] Emergency Response Telephone No. (DG 10)		
X	**PER05**	**365**	**Communication Number Qualifier**	**X**	**ID 2/2**
			Refer to 004010 Data Element Dictionary for acceptable code values.		
X	**PER06**	**364**	**Communication Number**	**X**	**AN 1/80**
X	**PER07**	**365**	**Communication Number Qualifier**	**X**	**ID 2/2**
			Refer to 004010 Data Element Dictionary for acceptable code values.		
X	**PER08**	**364**	**Communication Number**	**X**	**AN 1/80**
X	**PER09**	**443**	**Contact Inquiry Reference**	**O**	**AN 1/20**

Segment: **F9** **Origin Station**
Position: 140
Loop:
Level: Heading
Usage: Optional
Max Use: 1
Purpose: To identify the rail origin of the shipment
Syntax Notes:
Semantic Notes:
1 F902 is the origin station for movement.
2 F904 is the country code for the city named in the F902.
3 F905 is the freight station accounting code of the origin junction settlement carrier.
4 F908 is the Standard Point Location Code (SPLC) for the city named in the F902.
5 F909 is the postal code for the city named in the F902.
6 F910 is the Standard Point Location Code (SPLC) for the city named in the F906.
7 F911 is the postal code for the city named in the F906.
8 F912 is the country code for the city named in the F906.
Comments:
1 F905 is the freight station accounting code of the city named in F906.
Notes: [27] F9 SEGMENT - Originating Railroad Station (DG 72)
SEGMENT CONDITION: Use to designate origination railroad station as applicable.

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
X	**F901**	**573**	**Freight Station Accounting Code**	**O**	**ID 1/5**
M	**F902**	**19**	**City Name**	**M**	**AN 2/30**
			Free-form text for city name		
			[27-02] Originating Railroad Station (DG 72) Name of railroad station where shipment originated.		
M	**F903**	**156**	**State or Province Code**	**M**	**ID 2/2**
			Code (Standard State/Province) as defined by appropriate government agency		
			[27-03] State of Originating Railroad Station (DG 72) SOURCE: National Zip Code and Post Office Directory available from U.S. Postal Service National Information Data Center		
X	**F904**	**26**	**Country Code**	**O**	**ID 2/3**
X	**F905**	**573**	**Freight Station Accounting Code**	**O**	**ID 1/5**
X	**F906**	**19**	**City Name**	**O**	**AN 2/30**
X	**F907**	**156**	**State or Province Code**	**O**	**ID 2/2**
	F908	**154**	**Standard Point Location Code**	**O**	**ID 6/9**
			Code (Standard Point Location) defined by NMFTA point development group as the official code assigned to a city or point (for ratemaking purposes) within a city		
			[27-08] SPLC of Originating Railroad Station (DG 72) SOURCE: Continental Directory of Standard Point Location Codes (SPLC) available from National Motor Freight Traffic Association, Inc.		
X	**F909**	**116**	**Postal Code**	**O**	**ID 3/15**
X	**F910**	**154**	**Standard Point Location Code**	**O**	**ID 6/9**
X	**F911**	**116**	**Postal Code**	**O**	**ID 3/15**
X	**F912**	**26**	**Country Code**	**O**	**ID 2/3**

Segment: **D9** **Destination Station**
Position: 150
Loop:
Level: Heading
Usage: Optional
Max Use: 1
Purpose: To identify the rail destination of the shipment
Syntax Notes:
Semantic Notes:
1 D902 is the destination station of movement.
2 D904 is the country code for the city named in the D902.
3 D905 is the freight station accounting code of the destination junction settlement carrier.
4 D908 is the Standard Point Location Code (SPLC) for the city named in the D902.
5 D909 is the postal code for the city names in the D902.
6 D910 is the Standard Point Location Code (SPLC) for the city named in the D906.
7 D911 is the postal code for the city named in the D906.
8 D912 is the country code for the city named in the D906.
Comments:
1 D905 is the freight station accounting code of the city name in D906.
Notes: [28] D9 SEGMENT - Destination Railroad Station (DG 71)
SEGMENT CONDITION: Use to designate destination railroad station as applicable.

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
X	**D901**	**573**	**Freight Station Accounting Code**	**O**	**ID 1/5**
M	**D902**	**19**	**City Name**	**M**	**AN 2/30**
			Free-form text for city name		
			[28-02] Destination Railroad Station (DG 71) Name of railroad station where shipment will terminate.		
M	**D903**	**156**	**State or Province Code**	**M**	**ID 2/2**
			Code (Standard State/Province) as defined by appropriate government agency		
			[28-03] State of Destination Railroad Station (DG 71) SOURCE: National Zip Code and Post Office Directory available from U.S. Postal Service National Information Data Center		
X	**D904**	**26**	**Country Code**	**O**	**ID 2/3**
X	**D905**	**573**	**Freight Station Accounting Code**	**O**	**ID 1/5**
X	**D906**	**19**	**City Name**	**O**	**AN 2/30**
X	**D907**	**156**	**State or Province Code**	**O**	**ID 2/2**
	D908	**154**	**Standard Point Location Code**	**O**	**ID 6/9**
			Code (Standard Point Location) defined by NMFTA point development group as the official code assigned to a city or point (for ratemaking purposes) within a city		
			[28-08] SPLC of Destination Railroad Station (DG 71) SOURCE: Continental Directory of Standard Point Location Codes (SPLC) available from National Motor Freight Traffic Association, Inc.		
X	**D909**	**116**	**Postal Code**	**O**	**ID 3/15**
X	**D910**	**154**	**Standard Point Location Code**	**O**	**ID 6/9**
X	**D911**	**116**	**Postal Code**	**O**	**ID 3/15**
X	**D912**	**26**	**Country Code**	**O**	**ID 2/3**

Segment: **R2** **Route Information**
Position: 170
Loop:
Level: Heading
Usage: Optional
Max Use: 13
Purpose: To specify carrier and routing sequences and details
Syntax Notes: **1** If R208 is present, then R207 is required.
Semantic Notes: **1** R203 is the station or city name at which carriers interchange shipments.
2 R210 is the billing date.
Comments:
Notes: [29] R2 SEGMENT - Interline or 3PL Carrier (DG 10)
SEGMENT CONDITION: For non-3PL coordinated shipments (Defense Transportation Coordination Initiative (DTCI) or Defense Freight Transportation Services (DFTS)) use this segment if interline carriers are used during shipment. However, shipper systems are not required to provide Interline Carrier Routing information for rail movements. For 3PL shipments (DTCI or DFTS), use this segment to identify the carrier to whom the 3PL coordinator has assigned the shipment.

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
M	**R201**	**140**	**Standard Carrier Alpha Code** Standard Carrier Alpha Code [29-01] Via (Routing) SCAC (DG 10) For non-3PL coordinated shipments (DTCI or DFTS) enter SCAC of interline and destination carrier(s) in sequence after origin carrier. The origin carrier should not be included in an interline list. For 3PL coordinated shipments (DTCI or DFTS), enter the SCAC of the carrier to whom the 3PL coordinator assigned the shipment. SOURCE: Directory of Standard Multi-Model Carriers and Tariff Agents Codes (SCAC-STAC), NMF 101 Series available from National Motor Freight Association, Inc.	**M ID 2/4**
M	**R202**	**133**	**Routing Sequence Code** Code describing the relationship of a carrier to a specific shipment movement [29-02] Via (Routing) SCAC Qualifier (DG 10) Use 'B' for 3PL shipments (DTCI or DFTS) to indicate the carrier the 3PL coordinator assigned to the shipment.	**M ID 1/2**

1	1st Carrier after Origin Carrier
	[29-02] 1st Carrier after Origin Carrier
2	2nd Carrier after Origin Carrier
	[29-02] 2nd Carrier after Origin Carrier
3	3rd Carrier after Origin Carrier
	[29-02] 3rd Carrier after Origin Carrier
4	4th Carrier after Origin Carrier
	[29-02] 4th Carrier after Origin Carrier
5	5th Carrier after Origin Carrier
	[29-02] 5th Carrier after Origin Carrier
A	Origin Carrier, Agent's Routing (Rail)
	[29-02] Origin Carrier, Agent's Routing (Rail)
B	Origin/Delivery Carrier (Any Mode)
	[29-02] Origin/Delivery Carrier (Any Mode)
D	DELY (Delivery Switch Carrier)
	[29-02] DELY (Delivery Switch Carrier)
H	Haulage Rights Carrier and Junction
	[29-02] Haulage Rights Carrier and Junction

			I	Origin Switch Carrier	
				[29-02] Origin Switch Carrier	
			M	Haulage Movement Carrier and Junction	
				[29-02] Haulage Movement Carrier and Junction	
			O	Origin Carrier (Air, Motor, or Ocean)	
				[29-02] Origin Carrier (Air, Motor, or Ocean)	
			R	Origin Carrier, Rule 11 Shipment	
				[29-02] Origin Carrier, Rule 11 Shipment	
			S	Origin Carrier, Shipper's Routing (Rail)	
				[29-02] Origin Carrier, Shipper's Routing (Rail)	
			V	Intermediate Switch Carrier	
				[29-02] Intermediate Switch Carrier	
			Z	Mutually Defined	
				[29-02] Mutually Defined	
	R203	**19**	**City Name**	**O**	**AN 2/30**
			Free-form text for city name		
			[29-03] Via (Routing) Location (DG 10)		
	R204	**154**	**Standard Point Location Code**	**O**	**ID 6/9**
			Code (Standard Point Location) defined by NMFTA point development group as the official code assigned to a city or point (for ratemaking purposes) within a city		
			[29-04] Via (Routing) SPLC (DG 10) SOURCE: Continental Directory of Standard Point Location Codes (SPLC) available from National Motor Freight Traffic Association, Inc.		
X	**R205**	**177**	**Intermodal Service Code**	**O**	**ID 1/2**
X	**R206**	**91**	**Transportation Method/Type Code**	**O**	**ID 1/2**
			Refer to 004010 Data Element Dictionary for acceptable code values.		
X	**R207**	**296**	**Intermediate Switch Carrier**	**X**	**ID 2/4**
X	**R208**	**296**	**Intermediate Switch Carrier**	**O**	**ID 2/4**
X	**R209**	**76**	**Invoice Number**	**O**	**AN 1/22**
X	**R210**	**373**	**Date**	**O**	**DT 8/8**
X	**R211**	**369**	**Free-form Description**	**O**	**AN 1/45**
X	**R212**	**56**	**Type of Service Code**	**O**	**ID 2/2**
			Refer to 004010 Data Element Dictionary for acceptable code values.		
X	**R213**	**742**	**Route Description**	**O**	**AN 1/35**

Segment: **R4** **Port or Terminal**
Position: 180
Loop:
Level: Heading
Usage: Optional
Max Use: 5
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: [30] R4 SEGMENT - POE (DG 10)
SEGMENT CONDITION: Required for OCEAN CARGO SHIPPING INSTRUCTIONS. Not used otherwise.
[31] R4 SEGMENT - POD (DG 10)
SEGMENT CONDITION: Required for OCEAN CARGO SHIPPING INSTRUCTIONS. Not used otherwise.

Data Element Summary

	Ref. Des.	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		
			[30-01] Port or Terminal Function Code (DG 10) [31-01] Port or Terminal Function Code (DG 10)		
			D Port of Discharge (Operational) Port at which cargo is unloaded from vessel [31-01] Port of Discharge (Operational)		
			L Port of Loading (Operational) Port at which cargo is loaded on vessel [30-01] Port of Loading (Operational)		
>>	**R402**	**309**	**Location Qualifier**	**X**	**ID 1/2**
			Code identifying type of location		
			[30-02] Location Qualifier (DG 10) SOURCE: Defense Traffic Management Regulation (DTMR), Appendix I - Government Bill of Lading Codes available from Military Traffic Management Command (MTMC) [31-02] Location Qualifier (DG 10) SOURCE: Defense Traffic Management Regulation (DTMR), Appendix I - Government Bill of Lading Codes available from Military Traffic Management Command (MTMC)		
			IM Military Standard Movement Procedures (MILSTAMP) [30-02] Military Standard Movement Procedures (MILSTAMP) [31-02] Military Standard Movement Procedures (MILSTAMP)		
	R403	**310**	**Location Identifier**	**X**	**AN 1/30**
			Code which identifies a specific location		
			[30-03] POE (DG 10) [31-03] POD (DG 10)		
X	**R404**	**114**	**Port Name**	**O**	**AN 2/24**
X	**R405**	**26**	**Country Code**	**O**	**ID 2/3**
X	**R406**	**174**	**Terminal Name**	**O**	**AN 2/30**
X	**R407**	**113**	**Pier Number**	**O**	**AN 1/4**
X	**R408**	**156**	**State or Province Code**	**O**	**ID 2/2**

Segment: **H3** **Special Handling Instructions**
Position: 200
Loop:
Level: Heading
Usage: Optional
Max Use: 20
Purpose: To specify special handling instructions in coded or free-form format
Syntax Notes: **1** Only one of H301 or H302 may be present.
Semantic Notes:
Comments:
Notes: [32] H3 SEGMENT - Accessorial/Protective Service (DG 10)
SEGMENT CONDITION: Use if shipper orders accessorial services from the carrier. Use also if the Defense Transportation Tracking System (DTTS) is required.
[33] H3 SEGMENT - Actual Surveillance Service and Requesting Party (DG 10)
SEGMENT CONDITION: Use this segment when ordering surveillance services.

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
>>	**H301**	**152**	**Special Handling Code** Code specifying special transportation handling instructions [32-01] Accessorial/Protective Service Ordered Identifier (DG 10) Order accessorial services with this data element. To order accessorial services, the carrier industry requires the use of the H3 segment. This code also appears in the HL Accessorial/Protective Service (formerly LX 300) loop which is used to cost accessorial services. Do not use this element to order surveillance services; use the next occurrence of the H3 segment. See Section 6.0 for valid code list. SOURCE: Reference Section 6.0 of this IC beginning at page 6.14 for code values using applicable Accessorial Services for Rail Shipments, Accessorial Services for Tailored Transportation Contract Traffic Shipments, Accessorial/Protective Service For Air Shipments, Accessorial/Protective Service For Motor Shipments,Bulk Fuel Shipments, Miscellaneous Services, and Pipeline Shipments tables. Common code values associated with multiple definitions prevents documentation of the entire sub-set. Sample Values: 003,015,020,045,495,500,535,593,AAM,AAS,AAT,DOC,HMA,HMI,MSG,PDY Refer to 004010 Data Element Dictionary for acceptable code values.	**X**	**ID 2/3**
>>	**H302**	**153**	**Special Handling Description** Free-form additional description of special handling instructions to appear on printed bill if special handling code is not adequate [33-02] Actual Surveillance Service and Requesting Party (DG 10) Use this data element for requesting Surveillance Services only. See H301 for the applicable code values to enter in this data element. Do not use this data element to order accessorial services. Rather, use the H301 data element in a separate occurrence of the H3 segment for non-surveillance services. Provide the military service code to indicate the requesting party. Military service codes are: A = Army, N = Navy, F = Air Force, M = Marine Corps, P = Coast guard, and S = Defense Logistics Agency. Use a comma for the sub element delimiter between the actual service code and the requesting party.	**X**	**AN 2/30**
X	**H303**	**241**	**Protective Service Code** Refer to 004010 Data Element Dictionary for acceptable code values.	**O**	**ID 1/4**
X	**H304**	**242**	**Vent Instruction Code** Refer to 004010 Data Element Dictionary for acceptable code values.	**O**	**ID 1/7**
X	**H305**	**257**	**Tariff Application Code** Refer to 004010 Data Element Dictionary for acceptable code values.	**O**	**ID 1/1**

Segment: **E1** **Empty Car Disposition - Pended Destination Consignee**
Position: 220
Loop: E1 Optional
Level: Heading
Usage: Optional
Max Use: 1
Purpose: To identify the party receiving the empty car
Syntax Notes: **1** If either E102 or E103 is present, then the other is required.
Semantic Notes:
Comments:
Notes: [34] E1 SEGMENT - Receiving Party For Empty Railcar (DG 10)
LOOP CONDITION: Use when shipment employs an empty railcar.

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
M	**E101**	**459**	**Name (30 Character Format)**	**M**	**AN 2/30**
			Free-form organization name or official title as it should appear for mailing address		
			[34-01] Name of Receiving Party For Empty Railcar (DG 10) From the bill of lading continuation page.		
X	**E102**	**66**	**Identification Code Qualifier**	**X**	**ID 1/2**
			Refer to 004010 Data Element Dictionary for acceptable code values.		
X	**E103**	**67**	**Identification Code**	**X**	**AN 2/80**

Segment: **E4** **Empty Car Disposition - Pended Destination City**
Position: 230
Loop: E1 Optional
Level: Heading
Usage: Optional
Max Use: 1
Purpose: To specify the geographic place of named party receiving the empty car
Syntax Notes:
Semantic Notes:
Comments:
Notes: [35] E4 SEGMENT - City for Receiving Empty Railcar (DG 10)
SEGMENT CONDITION: Use when shipment employs an empty railcar.

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
M	**E401**	**19**	**City Name**	**M**	**AN 2/30**
			Free-form text for city name		
			[35-01] City for Receiving Empty Railcar (DG 10) From the bill of lading continuation page.		
M	**E402**	**156**	**State or Province Code**	**M**	**ID 2/2**
			Code (Standard State/Province) as defined by appropriate government agency		
			[35-02] State for Receiving Empty Railcar (DG 10) From the bill of lading continuation page. SOURCE: National Zip Code and Post Office Directory available from U.S. Postal Service National Information Data Center		
X	**E403**	**116**	**Postal Code**	**O**	**ID 3/15**
X	**E404**	**26**	**Country Code**	**O**	**ID 2/3**

Segment: **E5** **Empty Car Disposition - Pended Destination Route**
Position: 240
Loop: E1 Optional
Level: Heading
Usage: Optional
Max Use: 13
Purpose: To specify the routing of the empty car
Syntax Notes:
Semantic Notes:
Comments:
Notes: [36] E5 SEGMENT - Routing SCAC (DG 10)
SEGMENT CONDITION: Use if SCAC is applicable.

Data Element Summary

	Ref. Des.	Data Element	Name		Attributes	
M	**E501**	**140**	**Standard Carrier Alpha Code**		**M**	**ID 2/4**
			Standard Carrier Alpha Code			
			[36-01] Routing SCAC for Empty Railcar (DG 10) From the bill of lading continuation page. SOURCE: Directory of Standard Multi-Model Carriers and Tariff Agents Codes (SCAC-STAC), NMF 101 Series available from National Motor Freight Association, Inc.			
M	**E502**	**133**	**Routing Sequence Code**		**M**	**ID 1/2**
			Code describing the relationship of a carrier to a specific shipment movement			
			[36-02] Routing SCAC Sequence Number (DG 10) From the bill of lading continuation page.			
			1	1st Carrier after Origin Carrier		
				[36-02] 1st Carrier after Origin Carrier		
			2	2nd Carrier after Origin Carrier		
				[36-02] 2nd Carrier after Origin Carrier		
			3	3rd Carrier after Origin Carrier		
				[36-02] 3rd Carrier after Origin Carrier		
			4	4th Carrier after Origin Carrier		
				[36-02] 4th Carrier after Origin Carrier		
			5	5th Carrier after Origin Carrier		
				[36-02] 5th Carrier after Origin Carrier		
X	**E503**	**19**	**City Name**		**O**	**AN 2/30**
X	**E504**	**154**	**Standard Point Location Code**		**O**	**ID 6/9**

Segment: **L7** **Tariff Reference**
Position: 270
Loop:
Level: Heading
Usage: Optional
Max Use: 30
Purpose: To reference details of the tariff used to arrive at applicable rates or charge
Syntax Notes:
Semantic Notes: **1** L710 is the effective date.
2 In L715 and L716, "City" and "State" are used for rate combination city and state.
Comments:
Notes: [37] L7 SEGMENT - Tariff Distance (DG 10)
SEGMENT CONDITION: Required for all modes except ocean. When used, there are different rules for CONUS and OCONUS mileages. This segment may be repeated up to two times (one for CONUS, the other for OCONUS).

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
X	**L701**	**213**	**Lading Line Item Number**	**O**	**N0 1/3**
X	**L702**	**168**	**Tariff Agency Code**	**O**	**ID 1/4**
X	**L703**	**171**	**Tariff Number**	**O**	**AN 1/7**
X	**L704**	**172**	**Tariff Section**	**O**	**AN 1/2**
X	**L705**	**169**	**Tariff Item Number**	**O**	**AN 1/16**
X	**L706**	**170**	**Tariff Item Part**	**O**	**N0 1/2**
X	**L707**	**59**	**Freight Class Code**	**O**	**AN 2/5**
X	**L708**	**173**	**Tariff Supplement Identifier**	**O**	**AN 1/4**
X	**L709**	**46**	**Ex Parte**	**O**	**AN 4/4**
X	**L710**	**373**	**Date**	**O**	**DT 8/8**
X	**L711**	**119**	**Rate Basis Number**	**O**	**AN 1/6**
X	**L712**	**227**	**Tariff Column**	**O**	**AN 1/2**
>>	**L713**	**294**	**Tariff Distance**	**O**	**N0 1/5**
			Distance on which the rate for a shipment is based		
			[37-13] Tariff Distance (mileage) (DG 10) Mileage used for rating shipment.		
>>	**L714**	**295**	**Distance Qualifier**	**O**	**ID 1/1**
			Code identifying the distance unit		
			[37-14] Distance (mileage) Qualifier (DG 10)		
			M Miles (Actual)		
			[37-14] Miles (Actual) Use 'M' to denote CONUS mileage (used for ocean shipments only)		
			T Tariff Miles		
			[37-14] Tariff Miles Use 'T' to denote OCONUS mileage		
X	**L715**	**19**	**City Name**	**O**	**AN 2/30**
X	**L716**	**156**	**State or Province Code**	**O**	**ID 2/2**

Segment: **NTE** **Note/Special Instruction**
Position: 280
Loop:
Level: Heading
Usage: Optional
Max Use: 50
Purpose: To transmit information in a free-form format, if necessary, for comment or special instruction
Syntax Notes:
Semantic Notes:
Comments: **1** The NTE segment permits free-form information/data which, under ANSI X12 standard implementations, is not machine processable. The use of the NTE segment should therefore be avoided, if at all possible, in an automated environment.
Notes: [38] NTE SEGMENT - Change Notice (DG 10)
SEGMENT CONDITION: Use when Change Notice applies.
[39] NTE SEGMENT - Routing Instruction Note (DG 10)
SEGMENT CONDITION: Use when routing instruction note applies.
[40] NTE SEGMENT - Load Use (DG 10)
SEGMENT CONDITION: Use for Defense Transportation Tracking System (DTTS) shipments.
[41] NTE SEGMENT - DoD Classification Instructions (DG 10)
SEGMENT CONDITION: Use for Defense Transportation Tracking System (DTTS) shipments.
[42] NTE SEGMENT - Shipper Instructions (DG 10)
SEGMENT CONDITION: Use when additional shipper instructions apply for ocean shipments.

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
>>	**NTE01**	**363**	**Note Reference Code** Code identifying the functional area or purpose for which the note applies [38-01] Change Notice Qualifier (DG 10) [39-01] Routing Instruction Note (RIN) Code Qualifier (DG 10) [40-01] Load Use Qualifier (DG 10) [41-01] DoD Classification Instructions Qualifier (DG 10) Use to denote the highest security classification of an item within the shipment (i.e. the highest classified Controlled Inventory Item Code (CIIC) within the shipment). [42-01] Shipper Instructions Code (DG 10)	**O ID 3/3**
			ADD — Additional Information [42-01] Additional Information Use 'ADD' to denote Shipper Instructions to the Consignee or to the Carrier	
			CHG — Change [38-01] Change	
			CLR — Security Clearance Instructions Used to describe the level of security clearance required for individuals viewing information [41-01] Security Clearance Instructions Use 'CLR' to denote Emergency Contact - Military Surface Deployment and Distribution Command (SDDC)	
			INT — General Order Instructions [39-01] General Order Instructions	
			LOI — Loading Instructions [40-01] Loading Instructions	

M	**NTE02**	**352**	**Description**	**M**	**AN 1/80**

A free-form description to clarify the related data elements and their content

[38-02] Change Notice (DG 10)
Identifies the kind of change (correction) to the bill of lading.
SOURCE: Reference Section 5.0 (DTEB Freight Bill of Lading Shipment Information Implementation Convention) for a description of the indicator code positions and an example of a populated indicator string.
[39-02] Routing Instruction Note (RIN) Code (DG 10)
SOURCE: USTRANSCOM J5-PT
[40-02] Load Use Instructions (DG 10)
[41-02] DoD Classification Instructions (DG 10)
[42-02] Shipper Instructions (DG 10)
Enter text information from the paper bill of lading.

C	New Code Added by IC
	[41-02] Confidential
EXCLUSIVE	New Code Added by IC
	[40-02]
NONEXCLUSIVE	
	New Code Added by IC
	[40-02]
S	New Code Added by IC
	[41-02] Secret
U	New Code Added by IC
	[41-02] Unclassified

Segment: **N7** **Equipment Details**
Position: 330
Loop: N7 Optional
Level: Heading
Usage: Optional
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: [43] N7 SEGMENT - Primary Equipment Furnished (DG 60) Use as many N7 loops as required to identify equipment furnished.
LOOP CONDITION: For ocean shipments, this information is needed to facilitate Customs clearance. If the bill of lading is for movements using motor, rail, or bulk fuel conveyances, DG 60 must appear.

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
	N701	**206**	**Equipment Initial** Prefix or alphabetic part of an equipment unit's identifying number [43-01] Primary Equipment Initials (DG 60) For rail shipments, this data element is MANDATORY; it carries the equipment prefix used to describe railcars, trailers, and containers. For motor and air shipments, if the value in N702 is other than 'NONE', or the equipment initials are not available, use the SCAC. Primary equipment is that equipment ordered by the shipper from the carrier. That equipment type ordered, or its equivalent, is furnished by the carrier and used in the transportation of the shipment. The shipper pays only for the primary equipment ordered. For ocean shipments, use the initials on the container (never the carrier SCAC). ELEMENT CONDITION: For rail shipments, this data element is MANDATORY; it carries the equipment prefix used to describe railcars, trailers, and containers. SOURCE: IATA Unit Load Devices Manual available from International Air Transport Association	**O**	**AN 1/4**
M	**N702**	**207**	**Equipment Number** Sequencing or serial part of an equipment unit's identifying number (pure numeric form for equipment number is preferred) [43-02] Primary Equipment Numbers (DG 60) For rail shipments, this data element carries the serial number of the railcars, trailers, and containers. For motor and air shipments, if specific equipment is not ordered, carry the word 'NONE' in this data element.	**M**	**AN 1/10**
	N703	**81**	**Weight** Numeric value of weight [43-03] Weight Capacity Primary Equipment Furnished (DG 60) Express in 1000 LB units. Entry may contain a decimal; if not, decimal is assumed at right-most point of the field.	**X**	**R 1/10**

	N704	**187**	**Weight Qualifier**	**X**	**ID 1/2**
			Code defining the type of weight		
			[43-04] Weight Capacity Primary Equipment Furnished Qualifier (DG 60) ELEMENT CONDITION: Required if N705 is used.		
			N Actual Net Weight		
			[43-04] Actual Net Weight		
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		
			[43-08] Cube Capacity Primary Equipment Furnished (DG 60) ELEMENT CONDITION: Include if the carrier provides equipment different than that which was ordered, or if reporting the internal cube of a container.		
	N709	**184**	**Volume Unit Qualifier**	**X**	**ID 1/1**
			Code identifying the volume unit		
			[43-09] Cube Capacity Primary Equipment Furnished Qualifier (DG 60) ELEMENT CONDITION: This qualifier must appear if cube capacity carrier equipment furnished is used.		
			E Cubic Feet		
			[43-09] Cubic Feet		
X	**N710**	**102**	**Ownership Code**	**O**	**ID 1/1**
			Refer to 004010 Data Element Dictionary for acceptable code values.		
X	**N711**	**40**	**Equipment Description Code**	**O**	**ID 2/2**
			Refer to 004010 Data Element Dictionary for acceptable code values.		
X	**N712**	**140**	**Standard Carrier Alpha Code**	**O**	**ID 2/4**
	N713	**319**	**Temperature Control**	**O**	**AN 3/6**
			Free-form abbreviation of temperature range or flash-point temperature		
			[43-13] Temperature Control (DG 60) Use to specify temperature setting for reefer shipments. For ocean shipments indicate minimum and maximum temperature.		
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)		
			[43-15] Length Capacity Primary Equipment Furnished (DG 60) ELEMENT CONDITION: Include if the carrier provides equipment different than that which was ordered.		
X	**N716**	**571**	**Tare Qualifier Code**	**X**	**ID 1/1**
			Refer to 004010 Data Element Dictionary for acceptable code values.		
X	**N717**	**188**	**Weight Unit Code**	**O**	**ID 1/1**
			Refer to 004010 Data Element Dictionary for acceptable code values.		
X	**N718**	**761**	**Equipment Number Check Digit**	**O**	**N0 1/1**
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** Code identifying equipment type [43-22] Type of Equipment Furnished (DG 60) SOURCE: Reference Section 6.0 of this IC for code values using applicable Air, Containers, Motor and TOFC (Dimensions are Outside Dimensions), Other Methods, Rail, and Water tables. Sample Values: QQ,QU,SS,TT	**O**	**ID 4/4**
X	**N723**	**140**	**Standard Carrier Alpha Code**	**O**	**ID 2/4**
X	**N724**	**301**	**Car Type Code**	**O**	**ID 1/4**

Segment: **EM** **Equipment Characteristics**
Position: 331
Loop: N7 Optional
Level: Heading
Usage: Optional
Max Use: 1
Purpose: To send additional information regarding a specific piece of equipment
Syntax Notes:
1 If EM02 is present, then EM01 is required.
2 If EM04 is present, then EM03 is required.
Semantic Notes:
1 EM02 is the maximum load weight.
2 EM04 is the maximum load volume.
3 EM05 is the country of manufacture.
4 EM07 is the last inspection date for convention of safe container.
Comments:
Notes: [44] EM SEGMENT - Date Primary Equipment Furnished (DG 60)
SEGMENT CONDITION: Use if equipment was furnished (for the current N7 loop).

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
X	**EM01**	**188**	**Weight Unit Code**	**X**	**ID 1/1**
			Refer to 004010 Data Element Dictionary for acceptable code values.		
X	**EM02**	**81**	**Weight**	**O**	**R 1/10**
X	**EM03**	**184**	**Volume Unit Qualifier**	**X**	**ID 1/1**
			Refer to 004010 Data Element Dictionary for acceptable code values.		
X	**EM04**	**183**	**Volume**	**O**	**R 1/8**
X	**EM05**	**26**	**Country Code**	**O**	**ID 2/3**
X	**EM06**	**1429**	**Construction Type**	**O**	**ID 1/2**
			Refer to 004010 Data Element Dictionary for acceptable code values.		
>>	**EM07**	**373**	**Date**	**O**	**DT 8/8**
			Date expressed as CCYYMMDD		
			[44-07] Date (DG 60) Enter date that equipment was furnished for the current N7 loop.		

Segment: **NA** **Cross-Reference Equipment**
Position: 335
Loop: N7 Optional
Level: Heading
Usage: Optional
Max Use: 30
Purpose: To cross-reference additional equipment to a primary piece of equipment
Syntax Notes:
1 If NA01 is present, then NA02 is required.
Semantic Notes:
1 NA07 is the owner's Standard Carrier Alpha Code (SCAC) code.
2 NA11 indicates the equipment damage status. A "Y" indicates equipment is damaged; an "N" indicates equipment is not damaged.
Comments:
1 NA03 contains the equipment initial of an associated shipment and is required by rail. If unknown, use NONZ for van or NONU for container.
2 NA04 contains the equipment number of an associated shipment.
3 NA09 is the Standard Carrier Alpha Code (SCAC) code of the operator of the equipment.
Notes: [45] NA SEGMENT - Secondary Equipment Furnished (DG 60)
SEGMENT CONDITION: Required if use of secondary equipment applies.

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
X	**NA01**	**128**	**Reference Identification Qualifier**	**O**	**ID 2/3**
			Refer to 004010 Data Element Dictionary for acceptable code values.		
X	**NA02**	**127**	**Reference Identification**	**X**	**AN 1/30**
M	**NA03**	**206**	**Equipment Initial**	**M**	**AN 1/4**
			Prefix or alphabetic part of an equipment unit's identifying number		
			[45-03] Secondary Equipment Initials (DG 60) For rail Trailer on Flatcar/Container on Flatcar (TOFC/COFC) shipments, this data element carries the equipment initials of the flatcar used to convey the trailer/container (primary equipment ordered). When the shipper orders a trailer/container, the carrier supplies a flatcar to convey the trailer/container (primary equipment). The trailer is considered secondary equipment. The shipper incurs no cost for the use of secondary equipment. SOURCE: IATA Unit Load Devices Manual available from International Air Transport Association		
M	**NA04**	**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)		
			[45-04] Secondary Equipment Numbers (DG 60) For rail Trailer on Flatcar/Container on Flatcar (TOFC/COFC) shipments, this data element carries the equipment serial number of the flatcar used to convey the trailer/container (primary equipment ordered). When the shipper orders a trailer/container, the carrier supplies a flatcar to convey the trailer/container (primary equipment). The trailer is considered secondary equipment. The shipper incurs no cost for the use of secondary equipment. If a number is not available, send value 'xxxx' per shipper's instructions.		
	NA05	**231**	**Cross Reference Type Code**	**O**	**ID 1/1**
			Code defining relationship of equipment to equipment cross-referenced		
			[45-05] Cross Reference Type Code (DG 60) ELEMENT CONDITION: Use to further identify secondary equipment when shipment is by rail.		
			F Conveying Flat Car		
			[45-05] Conveying Flat Car		
X	**NA06**	**219**	**Position**	**O**	**AN 1/3**
X	**NA07**	**140**	**Standard Carrier Alpha Code**	**O**	**ID 2/4**
X	**NA08**	**567**	**Equipment Length**	**O**	**N0 4/5**

X	**NA09**	**140**	**Standard Carrier Alpha Code**	**O**	**ID 2/4**
X	**NA10**	**845**	**Chassis Type**	**O**	**ID 2/2**
			Refer to 004010 Data Element Dictionary for acceptable code values.		
X	**NA11**	**1073**	**Yes/No Condition or Response Code**	**O**	**ID 1/1**
			Refer to 004010 Data Element Dictionary for acceptable code values.		

Segment: **M7** **Seal Numbers**
Position: 340
Loop: N7 Optional
Level: Heading
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: [46] M7 SEGMENT - Seals (DG 60)
SEGMENT CONDITION: Required if seals are applied to the primary equipment.

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
M	**M701**	**225**	**Seal Number** Unique number on seal used to close a shipment [46-01] Seal Number (DG 60) Additional seal numbers should be carried in M702, M703, and M704.	**M**	**AN 2/15**
	M702	**225**	**Seal Number** Unique number on seal used to close a shipment [46-02] Additional Seal Number (DG 60)	**O**	**AN 2/15**
	M703	**225**	**Seal Number** Unique number on seal used to close a shipment [46-03] Additional Seal Number (DG 60)	**O**	**AN 2/15**
	M704	**225**	**Seal Number** Unique number on seal used to close a shipment [46-04] Additional Seal Number (DG 60)	**O**	**AN 2/15**
>>	**M705**	**98**	**Entity Identifier Code** Code identifying an organizational entity, a physical location, property or an individual [46-05] Seal Numbers Applied By Qualifier (DG 60) CA Carrier [46-05] Carrier SH Shipper [46-05] Shipper	**O**	**ID 2/3**

Segment: **N5** **Equipment Ordered**
Position: 350
Loop: N7 Optional
Level: Heading
Usage: Optional
Max Use: 1
Purpose: To specify carrier equipment
Syntax Notes: **1** If either N507 or N508 is present, then the other is required.
Semantic Notes:
Comments: **1** N506 is expressed in inches.
Notes: [47] N5 SEGMENT - Primary Equipment Ordered (DG 60)
SEGMENT CONDITION: Required if primary equipment was ordered.

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
	N501	**567**	**Equipment Length** 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) [47-01] Length Capacity Primary Equipment Ordered (DG 60) Format is FFFII where 8000 is 80 ft.	**O**	**N0 4/5**
	N502	**233**	**Weight Capacity** Capacity of car ordered (stated in 1000 pound units or 1000 kilogram units) [47-02] Weight Capacity Primary Equipment Ordered (DG 60)	**O**	**N0 2/3**
	N503	**203**	**Cubic Capacity** Capacity of car ordered (cubic feet unless otherwise specified) [47-03] Cubic Capacity Primary Equipment Ordered (DG 60)	**O**	**N0 2/4**
>>	**N504**	**301**	**Car Type Code** Code specifying type of rail car or intermodal equipment type and its general characteristics [47-04] Type of Equipment Ordered (DG 60) SOURCE: Reference Section 6.0 of this IC for code values using applicable Air, Containers, Motor and TOFC (Dimensions are Outside Dimensions), Other Methods, Rail, and Water tables. Sample Values: QQ,QU,SS,TT	**O**	**ID 1/4**
X	**N505**	**216**	**Metric Qualifier** Refer to 004010 Data Element Dictionary for acceptable code values.	**O**	**ID 1/1**
X	**N506**	**65**	**Height**	**O**	**R 1/8**
X	**N507**	**643**	**Lading Percentage**	**X**	**N2 2/4**
X	**N508**	**644**	**Lading Percent Qualifier** Refer to 004010 Data Element Dictionary for acceptable code values.	**X**	**ID 1/1**
X	**N509**	**40**	**Equipment Description Code** Refer to 004010 Data Element Dictionary for acceptable code values.	**O**	**ID 2/2**

Segment: **REF** **Reference Identification**
Position: 360
Loop: N7 Optional
Level: Heading
Usage: Optional
Max Use: 5
Purpose: To specify identifying information
Syntax Notes:
1 At least one of REF02 or REF03 is required.
2 If either C04003 or C04004 is present, then the other is required.
3 If either C04005 or C04006 is present, then the other is required.
Semantic Notes:
1 REF04 contains data relating to the value cited in REF02.
Comments:
Notes: [48] REF SEGMENT - Tractor Number (DG 60)
SEGMENT CONDITION: Required if the Defense Transportation Tracking System (DTTS) is required.

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
M	**REF01**	**128**	**Reference Identification Qualifier** Code qualifying the Reference Identification [48-01] Tractor Number Qualifier (DG 60) EQ Equipment Number [48-01] Equipment Number	**M**	**ID 2/3**
>>	**REF02**	**127**	**Reference Identification** Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier [48-02] Tractor Number (DG 60) The tractor number carried in this data element is the power unit for the trailer described in the N7 segment of the same equipment loop. This data element is required only for tracking shipments monitored by DTTS.	**X**	**AN 1/30**
X	**REF03**	**352**	**Description**	**X**	**AN 1/80**
X	**REF04**	**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: **N1** **Name**
Position: 390
Loop: N1 Optional (Must Use)
Level: Heading
Usage: Optional (Must Use)
Max Use: 1
Purpose: To identify a party by type of organization, name, and code
Syntax Notes:
1 At least one of N102 or N103 is required.
2 If either N103 or N104 is present, then the other is required.
Semantic Notes:
Comments:
1 This segment, used alone, provides the most efficient method of providing organizational identification. To obtain this efficiency the "ID Code" (N104) must provide a key to the table maintained by the transaction processing party.
2 N105 and N106 further define the type of entity in N101.
Notes: [49] N1 SEGMENT - Transportation Company Tendered To (CA) (DG 70)
LOOP CONDITION: DG 70 is required if the Defense Transportation Tracking System (DTTS) is required.
[51] N1 SEGMENT - Destination (ST) (DG 71)
[56] N1 SEGMENT - Origin (SF) (DG 72)
[61] N1 SEGMENT - Consignee (CN) (DG 73)
[65] N1 SEGMENT - Shipper (SH) (DG 74)
[69] N1 SEGMENT - Diversion/Reconsignment To (TT) (DG 75)
LOOP CONDITION: Required if shipment requires diversion/reconsignment destination.
[71] N1 SEGMENT - Diversion/Reconsignment From (T4) (DG 76)
LOOP CONDITION: DG 76 required if shipment requires diversion/reconsignment destination.
[73] N1 SEGMENT - Bill Charges To (PO) (DG 77)
[77] N1 SEGMENT - Issuing Office (IU) (DG 78)
[82] N1 SEGMENT - FOB Point (KX) (DG 79)
LOOP CONDITION: Use if FOB point applies.

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
M	**N101**	**98**	**Entity Identifier Code** Code identifying an organizational entity, a physical location, property or an individual [49-01] Transportation Company Tendered To (CA) Qualifier (DG 70) [51-01] Destination Name (ST) Qualifier (DG 71) This qualifier identifies name and address information of the carrier's delivery location. [56-01] Origin Name (SF) Qualifier (DG 72) This qualifier identifies the name and address information of the carrier's pickup location. [61-01] Consignee (CN) Name Qualifier (DG 73) This qualifier identifies the installation transportation office responsible for the shipment at the final destination. [65-01] Shipper Name (SH) Qualifier (DG 74) This qualifier identifies the installation transportation office responsible for the shipment at origin. [69-01] Diversion/Reconsignment (TT) To Qualifier (DG 75) Location that shipment is diverted/reconsigned to. [71-01] Diversion/Reconsignment (T4) From Qualifier (DG 76) [73-01] Bill Charges To (PO) Qualifier (DG 77) [77-01] Issuing Office (IU) Name Qualifier (DG 78) [82-01] FOB Point (KX) Qualifier (DG 79) CA Carrier [49-01] Carrier	**M ID 2/3**

			CN	Consignee		
				[61-01] Consignee		
			IU	Issuer		
				[77-01] Issuer		
			KX	Free on Board Point		
				[82-01] Free on Board Point		
			PO	Party to Receive Invoice for Goods or Services		
				[73-01] Party to Receive Invoice for Goods or Services		
			SF	Ship From		
				[56-01] Ship From		
			SH	Shipper		
				[65-01] Shipper		
			ST	Ship To		
				[51-01] Ship To		
			T4	Transfer Point		
				A geographic location where a shipment is transferred or diverted to a new destination		
				[71-01] Transfer Point		
			TT	Transfer To		
				[69-01] Transfer To		
>>	**N102**	**93**	**Name**		**X**	**AN 1/60**
			Free-form name			
			[49-02] Transportation Company Tendered To Name (CA) (DG 70) [51-02] Destination Name (ST) (DG 71) [56-02] Origin Name (SF) (DG 72) ELEMENT CONDITION: If issuing GBLOC is unavailable (N406='IOOI') or origin DoDAAC/CAGE/MAPAC is unavailable (N104='XXXXXX'), then the clear text name of the origin is required. [61-02] Consignee Name (CN) (DG 73) ELEMENT CONDITION: If consignee GBLOC is unavailable (N406='IOOI') or consignee DoDAAC/CAGE/MAPAC is unavailable (N104='XXXXXX'), then the clear text name of the consignee is required. [65-02] Shipper Name (SH) (DG 74) ELEMENT CONDITION: If shipper DoDAAC/CAGE/MAPAC is unavailable (N104='XXXXXX'), then the clear text name of the shipper is required. [69-02] Diversion/Reconsignment (TT) To City (DG 75) Carry the city name that pertains to the SPLC. [71-02] Diversion/Reconsignment (T4) From (DG 76) Location that shipment was diverted/reconsigned from. Carry the city name that pertains to the SPLC. [73-02] Bill Charges To (PO) (DG 77) [77-02] Issuing Office (IU) Name (DG 78) [82-02] FOB Point (KX) (DG 79) Carry actual FOB point name in this data element.		

>>	**N103**	**66**	**Identification Code Qualifier**	**X**	**ID 1/2**

Code designating the system/method of code structure used for Identification Code (67)

[51-03] Destination DoDAAC/CAGE/MAPAC Qualifier (DG 71)
Do not use CAGE code for ocean shipments.
[56-03] Origin DoDAAC/CAGE/MAPAC Qualifier (DG 72)
Do not use CAGE code for ocean shipments.
[61-03] Consignee DoDAAC/CAGE/MAPAC Qualifier (DG 73)
Do not use CAGE code for ocean shipments.
[65-03] Shipper DoDAAC/CAGE/MAPAC Qualifier (SH) (DG 74)
Do not use CAGE code for ocean shipments.
[73-03] Bill Charges To (PO) DoDAAC/CAGE/MAPAC Qualifier (DG 77)
Do not use CAGE code for ocean shipments.
ELEMENT CONDITION: Required if N104 is used.

10	Department of Defense Activity Address Code (DODAAC) [51-03] Department of Defense Activity Address Code (DODAAC) [56-03] Department of Defense Activity Address Code (DODAAC) [61-03] Department of Defense Activity Address Code (DODAAC) [65-03] Department of Defense Activity Address Code (DODAAC) [73-03] Department of Defense Activity Address Code (DODAAC)
33	Commercial and Government Entity (CAGE) [51-03] Commercial and Government Entity (CAGE) [56-03] Commercial and Government Entity (CAGE) [61-03] Commercial and Government Entity (CAGE) [65-03] Commercial and Government Entity (CAGE) [73-03] Commercial and Government Entity (CAGE)
A2	Military Assistance Program Address Code (MAPAC) Contained in the Military Assistance Program Address Directory (MAPAD); represents the location of an entity [51-03] Military Assistance Program Address Code (MAPAC) [56-03] Military Assistance Program Address Code (MAPAC) [61-03] Military Assistance Program Address Code (MAPAC) [65-03] Military Assistance Program Address Code (MAPAC) [73-03] Military Assistance Program Address Code (MAPAC)

>>	**N104**	**67**	**Identification Code** Code identifying a party or other code [51-04] Destination DoDAAC/CAGE/MAPAC (DG 71) If DoDAAC/CAGE/MAPAC is unavailable, then N104 = 'XXXXXX' and the complete clear text name and address of the destination is required. [56-04] Origin DoDAAC/CAGE/MAPAC (DG 72) If origin DoDAAC/CAGE/MAPAC is unavailable, then N104 = 'XXXXXX' and the complete clear text name and address of the origin is required in N102. [61-04] Consignee DoDAAC/CAGE/MAPAC (DG 73) If DoDAAC/CAGE/MAPAC is unavailable, then N104 = 'XXXXXX' and the complete clear text name and address of the consignee is required in N102. [65-04] Shipper DoDAAC/CAGE/MAPAC (SH) (DG 74) If shipper DoDAAC/CAGE/MAPAC is unavailable, then N104 = 'XXXXXX' and the complete clear text name and address of the shipper is required. [73-04] Bill Charges To (PO) DoDAAC/CAGE/MAPAC (DG 77)	**X**	**AN 2/80**
X	**N105**	**706**	**Entity Relationship Code** Refer to 004010 Data Element Dictionary for acceptable code values.	**O**	**ID 2/2**
X	**N106**	**98**	**Entity Identifier Code** Refer to 004010 Data Element Dictionary for acceptable code values.	**O**	**ID 2/3**

Segment: **N2** **Additional Name Information**
Position: 400
Loop: N1 Optional (Must Use)
Level: Heading
Usage: Optional
Max Use: 2
Purpose: To specify additional names or those longer than 35 characters in length
Syntax Notes:
Semantic Notes:
Comments:
Notes: [52] N2 SEGMENT - Destination (ST) (DG 71)
SEGMENT CONDITION: Use if additional destination name applies.
[57] N2 SEGMENT - Origin (SF) (DG 72)
SEGMENT CONDITION: Use if origin additional name applies.
[62] N2 SEGMENT - Consignee (CN) (DG 73)
SEGMENT CONDITION: Use if consignee additional name applies.
[66] N2 SEGMENT - Shipper (SH) (DG 74)
SEGMENT CONDITION: Use if shipper additional name applies.
[74] N2 SEGMENT - Bill Charges To (PO) (DG 77)
SEGMENT CONDITION: Use if additional name is required for party to whom charges are billed. If available provide additional name to accommodate trading partners that cannot identify activities by DoDAAC/CAGE/MAPAC.
[78] N2 SEGMENT - Issuing Office (IU) (DG 78)
SEGMENT CONDITION: Use if additional name is required for issuing office.

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
M	**N201**	**93**	**Name** Free-form name [52-01] Additional Name (ST) (DG 71) [57-01] Additional Name (SF) (DG 72) [62-01] Additional Name (CN) (DG 73) [66-01] Additional Name (SH) (DG 74) [74-01] Additional Name (PO) (DG 77) [78-01] Additional Name (IU) (DG 78)	**M**	**AN 1/60**
X	**N202**	**93**	**Name**	**O**	**AN 1/60**

Segment: **N3** **Address Information**
Position: 410
Loop: N1 Optional (Must Use)
Level: Heading
Usage: Optional
Max Use: 2
Purpose: To specify the location of the named party
Syntax Notes:
Semantic Notes:
Comments:
Notes: [53] N3 SEGMENT - Destination (ST) (DG 71)
SEGMENT CONDITION: Use if destination street address applies.
[58] N3 SEGMENT - Origin (SF) (DG 72)
SEGMENT CONDITION: Use if origin street address applies.
[63] N3 SEGMENT - Consignee (CN) (DG 73)
SEGMENT CONDITION: Use if consignee street address applies.
[67] N3 SEGMENT - Shipper (SH) (DG 74)
SEGMENT CONDITION: Use if shipper street address applies.
[75] N3 SEGMENT - Bill Charges To (PO) (DG 77)
SEGMENT CONDITION: Use if street address is required for party to whom charges are billed. f available provide street address to accommodate trading partners that cannot identify activities by DoDAAC/CAGE/MAPAC.
[79] N3 SEGMENT - Issuing Office (IU) (DG 78)
SEGMENT CONDITION: Use if street address is required for issuing office.

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
M	**N301**	**166**	**Address Information** Address information [53-01] Street (ST) (DG 71) [58-01] Street (SF) (DG 72) [63-01] Street (CN) (DG 73) [67-01] Street (SH) (DG 74) [75-01] Street (PO) (DG 77) [79-01] Street (IU) (DG 78)	**M**	**AN 1/55**
	N302	**166**	**Address Information** Address information [53-02] Additional Addressing Information (DG 71) [58-02] Additional Addressing Information (DG 72) [63-02] Additional Addressing Information (DG 73) [67-02] Additional Addressing Information (DG 74) [75-02] Additional Addressing Information (DG 77) [79-02] Additional Addressing Information (DG 78)	**O**	**AN 1/55**

Segment: **N4** **Geographic Location**
Position: 420
Loop: N1 Optional (Must Use)
Level: Heading
Usage: Optional
Max Use: 1
Purpose: To specify the geographic place of the named party
Syntax Notes: **1** If N406 is present, then N405 is required.
Semantic Notes:
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: [54] N4 SEGMENT - Destination (ST) (DG 71)
SEGMENT CONDITION: Use if destination city, state, and ZIP Code apply.
[59] N4 SEGMENT - Origin (SF) (DG 72)
SEGMENT CONDITION: Use if origin city, state, and ZIP Code apply.
[64] N4 SEGMENT - Consignee (CN) (DG 73)
Provides required data when shipment is by rail or when consignee is OCONUS. May be used also when consignee city, state, and ZIP Code apply.
SEGMENT CONDITION: Required for all shipments except ocean.
[68] N4 SEGMENT - Shipper (SH) (DG 74)
SEGMENT CONDITION: Use if shipper city, state, and ZIP Code apply.
[70] N4 SEGMENT - Diversion/Reconsignment To Country Code (TT) (DG 75)
SEGMENT CONDITION: If shipment is CONUS, SPLC is required. If OCONUS, country code is required.
[72] N4 SEGMENT - Diversion/Reconsignment (T4) (DG 76)
SEGMENT CONDITION: Required if diversion/reconsignment SPLC applies.
[76] N4 SEGMENT - Bill Charges To (PO) (DG 77)
SEGMENT CONDITION: Use if city is required for party to whom charges are billed. If available provide city, state, and ZIP to accommodate trading partners that cannot identify activities by DoDAAC/CAGE/MAPAC.
[80] N4 SEGMENT - Issuing Office (IU) (DG 78)
SEGMENT CONDITION: Use if Issuing Office (IU) city, state, and ZIP Code apply.
[83] N4 SEGMENT - FOB Point (DG 79)
SEGMENT CONDITION: Use if FOB point applies.

Data Element Summary

Ref. Des.	Data Element	Name	Attributes
N401	**19**	**City Name** Free-form text for city name [54-01] City (ST) (DG 71) ELEMENT CONDITION: Field is MANDATORY if rail shipment. [59-01] City (SF) (DG 72) ELEMENT CONDITION: Field is MANDATORY if rail shipment. [64-01] City (CN) (DG 73) ELEMENT CONDITION: Field is MANDATORY if rail shipment. [68-01] City (SH) (DG 74) ELEMENT CONDITION: Field is required for rail shipments. [76-01] City (PO) (DG 77) [80-01] City (IU) (DG 78) [83-01] FOB Point (City) Named In Contract (DG 79)	**O AN 2/30**

N402	**156**	**State or Province Code**	**O**	**ID 2/2**

Code (Standard State/Province) as defined by appropriate government agency

[54-02] State Code (ST) (DG 71)
ELEMENT CONDITION: Field is MANDATORY if rail shipment.
SOURCE: National Zip Code and Post Office Directory available from U.S. Postal Service National Information Data Center
[59-02] State (SF) (DG 72)
ELEMENT CONDITION: Field is MANDATORY if rail shipment. Also use for province if shipment is Canadian.
SOURCE: National Zip Code and Post Office Directory available from U.S. Postal Service National Information Data Center
[64-02] State (CN) (DG 73)
ELEMENT CONDITION: Field is MANDATORY if rail shipment. Also use for province if shipment is Canadian.
SOURCE: National Zip Code and Post Office Directory available from U.S. Postal Service National Information Data Center
[68-02] State (SH) (DG 74)
ELEMENT CONDITION: Field is required for if rail shipments. Also use for province if shipment is Canadian.
SOURCE: National Zip Code and Post Office Directory available from U.S. Postal Service National Information Data Center
[76-02] State (PO) (DG 77)
SOURCE: National Zip Code and Post Office Directory available from U.S. Postal Service National Information Data Center
[80-02] State (IU) (DG 78)
SOURCE: National Zip Code and Post Office Directory available from U.S. Postal Service National Information Data Center
[83-02] FOB Point (State) Named In Contract (DG 79)
SOURCE: National Zip Code and Post Office Directory available from U.S. Postal Service National Information Data Center

N403	**116**	**Postal Code**	**O**	**ID 3/15**

Code defining international postal zone code excluding punctuation and blanks (zip code for United States)

[54-03] ZIP/Postal Code (ST) (DG 71)
There should be no special characters, punctuation, or blanks.
ELEMENT CONDITION: Field is MANDATORY if rail shipment.
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
[59-03] ZIP/Postal Code (SF) (DG 72)
Field is MANDATORY if rail shipment. There should be no special characters, punctuation, or blanks.
ELEMENT CONDITION: Field is MANDATORY if rail shipment.
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
[64-03] ZIP Code/Postal Code (CN) (DG 73)
There should be no special characters, punctuation, or blanks.
ELEMENT CONDITION: Field is MANDATORY if rail shipment.
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
[68-03] ZIP Code/Postal Code (SH) (DG 74)
There should be no special characters, punctuation, or blanks.
ELEMENT CONDITION: Field is required for rail shipments.
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

[76-03] ZIP Code/Postal Code (PO) (DG 77)
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
[80-03] ZIP Code/Postal Code (IU) (DG 78)
SOURCE: National ZIP Code and Post Office Directory, Publication 65 available from U.S Postal Service; The USPS Domestic Mail Manual available from New Orders Superintendent of Documents

	N404	**26**	**Country Code** Code identifying the country	**O**	**ID 2/3**

[54-04] Country Code (DG 71)
ELEMENT CONDITION: If destination is OCONUS, country code is required.
SOURCE: Code for Representation of Names of Countries, Geopolitical Entities, Names, and Codes (GENC), is represented in the National System for Geospatial Intelligence (NSG) GENC Registry and mirrored at http://www.transcom.mil/dteb/files/refdata/V_CTRY_DOD.htm. Codes for Representation of Currencies and Funds, ISO 4217, is available from American National Standards Institute.
[59-04] Country Code (SF) (DG 72)
ELEMENT CONDITION: If origin is OCONUS, country code is required.
SOURCE: Code for Representation of Names of Countries, Geopolitical Entities, Names, and Codes (GENC), is represented in the National System for Geospatial Intelligence (NSG) GENC Registry and mirrored at http://www.transcom.mil/dteb/files/refdata/V_CTRY_DOD.htm. Codes for Representation of Currencies and Funds, ISO 4217, is available from American National Standards Institute.
[64-04] Country Code (CN) (DG 73)
ELEMENT CONDITION: If consignee is OCONUS, country code is required.
SOURCE: Code for Representation of Names of Countries, Geopolitical Entities, Names, and Codes (GENC), is represented in the National System for Geospatial Intelligence (NSG) GENC Registry and mirrored at http://www.transcom.mil/dteb/files/refdata/V_CTRY_DOD.htm. Codes for Representation of Currencies and Funds, ISO 4217, is available from American National Standards Institute.
[68-04] Country Code (SH) (DG 74)
ELEMENT CONDITION: If shipper is OCONUS, country code is required.
SOURCE: Code for Representation of Names of Countries, Geopolitical Entities, Names, and Codes (GENC), is represented in the National System for Geospatial Intelligence (NSG) GENC Registry and mirrored at http://www.transcom.mil/dteb/files/refdata/V_CTRY_DOD.htm. Codes for Representation of Currencies and Funds, ISO 4217, is available from American National Standards Institute.
[70-04] Country Code (DG 75)
ELEMENT CONDITION: If diversion/reconsignment is OCONUS, country code is required.
SOURCE: Code for Representation of Names of Countries, Geopolitical Entities, Names, and Codes (GENC), is represented in the National System for Geospatial Intelligence (NSG) GENC Registry and mirrored at http://www.transcom.mil/dteb/files/refdata/V_CTRY_DOD.htm. Codes for Representation of Currencies and Funds, ISO 4217, is available from American National Standards Institute.

>>	**N405**	**309**	**Location Qualifier** Code identifying type of location	**X**	**ID 1/2**

[54-05] Destination SPLC (ST) Qualifier (DG 71)
ELEMENT CONDITION: SPLC is required for CONUS, but not OCONUS, shipments.
SOURCE: Defense Traffic Management Regulation (DTMR), Appendix I - Government Bill of Lading Codes available from Military Traffic Management Command (MTMC)

[59-05] Shipping Point SPLC (SF) Qualifier (DG 72)
ELEMENT CONDITION: Required if N406 is used.
SOURCE: Defense Traffic Management Regulation (DTMR), Appendix I - Government Bill of Lading Codes available from Military Traffic Management Command (MTMC)
[64-05] Consignee (CN) GBLOC Qualifier (DG 73)
ELEMENT CONDITION: Required for all shipments except by ocean.
SOURCE: Defense Traffic Management Regulation (DTMR), Appendix I - Government Bill of Lading Codes available from Military Traffic Management Command (MTMC)
[70-05] Diversion/Reconsignment (TT) To SPLC Qualifier (DG 75)
Required if N406 is used.
[72-05] Diversion/Reconsignment (T4) From SPLC Qualifier (DG 76)
SOURCE: Defense Traffic Management Regulation (DTMR), Appendix I - Government Bill of Lading Codes available from Military Traffic Management Command (MTMC)
[80-05] Issuing Office (IU) GBLOC Qualifier (DG 78)
SOURCE: Defense Traffic Management Regulation (DTMR), Appendix I - Government Bill of Lading Codes available from Military Traffic Management Command (MTMC)
[83-05] FOB SPLC Qualifier (DG 79)
ELEMENT CONDITION: Required if N406 is used.
SOURCE: Defense Traffic Management Regulation (DTMR), Appendix I - Government Bill of Lading Codes available from Military Traffic Management Command (MTMC)

BL	Government Bill of Lading Office Code (GBLOC)
	Qualifies a code that identifies the location of a government office authorized to process transportation bills of lading
	[64-05] Government Bill of Lading Office Code (GBLOC) [80-05] Government Bill of Lading Office Code (GBLOC)
SL	U.S. SPLC
	[54-05] U.S. SPLC [59-05] U.S. SPLC [70-05] U.S. SPLC [72-05] U.S. SPLC [83-05] U.S. SPLC

>>	**N406**	**310**	**Location Identifier**	**O**	**AN 1/30**

Code which identifies a specific location

[54-06] Destination SPLC (ST) (DG 71)
ELEMENT CONDITION: Nine-digit SPLCs are required for costing. SPLC is provided for CONUS shipments but not OCONUS.
[59-06] Shipping Point SPLC (SF) (DG 72)
Nine-digit SPLCs are required for costing. SPLC is provided for CONUS shipments but not OCONUS.
[64-06] Consignee (CN) GBLOC (DG 73)
ELEMENT CONDITION: If GBLOC is unavailable enter value 'IOOI'. Then, the clear text name of the consignee is required in N102.
[70-06] Diversion/Reconsignment (TT) To SPLC (DG 75)
[72-06] Diversion/Reconsignment (T4) From SPLC (DG 76)
[80-06] Issuing Office (IU) GBLOC (DG 78)
This element must contain a valid GBLOC. Do not use 'IOOI'.
[83-06] FOB SPLC (DG 79)

Segment: **PER** **Administrative Communications Contact**
Position: 440
Loop: N1 Optional (Must Use)
Level: Heading
Usage: Optional
Max Use: 3
Purpose: To identify a person or office to whom administrative communications should be directed
Syntax Notes:
1 If either PER03 or PER04 is present, then the other is required.
2 If either PER05 or PER06 is present, then the other is required.
3 If either PER07 or PER08 is present, then the other is required.
Semantic Notes:
Comments:
Notes:
[50] PER SEGMENT - Transportation Company Dispatcher Contact (DG 70)
SEGMENT CONDITION: Required if the Defense Transportation Tracking System (DTTS) is required.
[55] PER SEGMENT - DTTS Destination (ST) (DG 71)
SEGMENT CONDITION: Required if the Defense Transportation Tracking System (DTTS) is required.
[60] PER SEGMENT - DTTS Origin (SF) (DG 72)
SEGMENT CONDITION: Required if the Defense Transportation Tracking System (DTTS) is required.
[81] PER SEGMENT - Name of Issuing Officer (IU) (DG 78)
SEGMENT CONDITION: Use if name of issuing officer is required.

Data Element Summary

	Ref. Des.	Data Element	Name		Attributes	
M	**PER01**	**366**	**Contact Function Code**		**M**	**ID 2/2**
			Code identifying the major duty or responsibility of the person or group named			
			[50-01] Transportation Company Dispatcher Contact Qualifier (DG 70) [55-01] Destination (ST) Contact Qualifier (DG 71) [60-01] Origin (SF) Contact Qualifier (DG 72) [81-01] Name of Issuing Officer Qualifier (DG 78)			
			EM	Emergency Contact		
				[50-01] Emergency Contact [55-01] Emergency Contact [60-01] Emergency Contact		
			IO	Issuing Officer		
				[81-01] Issuing Officer		
>>	**PER02**	**93**	**Name**		**O**	**AN 1/60**
			Free-form name			
			[81-02] Name of Issuing Officer (DG 78)			
>>	**PER03**	**365**	**Communication Number Qualifier**		**X**	**ID 2/2**
			Code identifying the type of communication number			
			[50-03] Transportation Company Dispatcher Telephone Number Qualifier (DG 70) [55-03] Destination (ST) Phone Number Qualifier (DG 71) [60-03] Origin (SF) Phone Number Qualifier (DG 72)			
			AU	Defense Switched Network		
				Department of Defense telecommunications system and successor of the Automatic Voice Network (AUTOVON)		
				[55-03] Defense Switched Network [60-03] Defense Switched Network		
			TE	Telephone		
				[50-03] Telephone [55-03] Telephone [60-03] Telephone		

>>	**PER04**	**364**	**Communication Number** Complete communications number including country or area code when applicable [50-04] Transportation Company Dispatcher Telephone Number (DG 70) [55-04] Destination (ST) Contact Phone Number (DG 71) Both commercial and DSN phone numbers are required for ammunition shipments. [60-04] Origin (SF) Contact Phone Number (DG 72) Both commercial and DSN phone numbers are required for ammunition shipments.	**X**	**AN 1/80**
X	**PER05**	**365**	**Communication Number Qualifier** Refer to 004010 Data Element Dictionary for acceptable code values.	**X**	**ID 2/2**
X	**PER06**	**364**	**Communication Number**	**X**	**AN 1/80**
X	**PER07**	**365**	**Communication Number Qualifier** Refer to 004010 Data Element Dictionary for acceptable code values.	**X**	**ID 2/2**
X	**PER08**	**364**	**Communication Number**	**X**	**AN 1/80**
X	**PER09**	**443**	**Contact Inquiry Reference**	**O**	**AN 1/20**

Segment: **S5** **Stop-off Details**
Position: 450
Loop: S5 Optional
Level: Heading
Usage: Optional
Max Use: 1
Purpose: To specify stop-off detail reference numbers and stop reason
Syntax Notes:
1 If either S503 or S504 is present, then the other is required.
2 If either S505 or S506 is present, then the other is required.
3 If either S507 or S508 is present, then the other is required.
Semantic Notes:
1 S509 is the stop reason description.
Comments:
Notes: [84] S5 SEGMENT - Stop Data (DG 80) The S5 loop must occur for each unique action that occurs at an enroute location. If a pickup and delivery action are performed at the same enroute location, the S5 loop must occur once for the pickup, and once for the delivery. The origin address is not included in this loop. The split pickup and split delivery addresses are included in this loop. For example, if a shipment makes a stop location and unloads an item, then moves to an inside address and unloads and loads an item, three actions have affected the shipment at two locations. Consequently, the 858 must contain three S5 loops, one for each action.
LOOP CONDITION: DG 80 required if the shipment requires inside pickup, inside delivery, stops, and objective service supply deliveries.

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
M	**S501**	**165**	**Stop Sequence Number**	**M**	**N0 1/3**
			Identifying number for the specific stop and the sequence in which the stop is to be performed		
			[84-01] Stop Sequence Number (DG 80) If the shipment stops enroute to the final destination, enter the sequence number of the stop location here. This sequence number needs to appear in the 100 Detail - Line Item Header Information Loop with each commodity that is picked up and/or delivered at that stop.		
M	**S502**	**163**	**Stop Reason Code**	**M**	**ID 2/2**
			Code specifying the reason for the stop		
			[84-02] Stop Reason Code (DG 80)		
			LD Load		
			[84-02] Load		
			UL Unload		
			[84-02] Unload		
X	**S503**	**81**	**Weight**	**X**	**R 1/10**
X	**S504**	**188**	**Weight Unit Code**	**X**	**ID 1/1**
			Refer to 004010 Data Element Dictionary for acceptable code values.		
X	**S505**	**382**	**Number of Units Shipped**	**X**	**R 1/10**
X	**S506**	**355**	**Unit or Basis for Measurement Code**	**X**	**ID 2/2**
			Refer to 004010 Data Element Dictionary for acceptable code values.		
X	**S507**	**183**	**Volume**	**X**	**R 1/8**
X	**S508**	**184**	**Volume Unit Qualifier**	**X**	**ID 1/1**
			Refer to 004010 Data Element Dictionary for acceptable code values.		

X	**S509**	**352**	**Description**	**O**	**AN 1/80**
	S510	**154**	**Standard Point Location Code**	**O**	**ID 6/9**
			Code (Standard Point Location) defined by NMFTA point development group as the official code assigned to a city or point (for ratemaking purposes) within a city [84-10] Stop SPLC Code (DG 80) Nine-digit SPLCs are required for costing of all shipments except by ocean. SPLC not used OCONUS. SOURCE: Continental Directory of Standard Point Location Codes (SPLC) available from National Motor Freight Traffic Association, Inc.		
	S511	**190**	**Accomplish Code**	**O**	**ID 1/1**
			Code indicating the status of a specified stop [84-11] Stop Accomplish Code (DG 80)		
			A Accomplished [84-11] Accomplished		
			P Pending [84-11] Pending		

Segment: **G62** **Date/Time**
Position: 460
Loop: S5 Optional
Level: Heading
Usage: Optional
Max Use: 6
Purpose: To specify pertinent dates and times
Syntax Notes:
1 At least one of G6201 or G6203 is required.
2 If either G6201 or G6202 is present, then the other is required.
3 If either G6203 or G6204 is present, then the other is required.
Semantic Notes:
Comments:
Notes: [85] G62 SEGMENT - Stop Arrival/Departure Times (DG 80)
SEGMENT CONDITION: Required if stop/pickup applies.

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
>>	**G6201**	**432**	**Date Qualifier** Code specifying type of date [85-01] Stop Date(s) Qualifier (DG 80) 69 Scheduled Pick-Up Date [85-01] Scheduled Pick-Up Date 70 Scheduled Delivery Date [85-01] Scheduled Delivery Date	**X**	**ID 2/2**
>>	**G6202**	**373**	**Date** Date expressed as CCYYMMDD [85-02] Stop Date(s) (DG 80) Use to satisfy claims and discrepancies. Scheduled date on which stop will occur.	**X**	**DT 8/8**
	G6203	**176**	**Time Qualifier** Code specifying the reported time [85-03] Stop Arrival/Departure Times Qualifier (DG 80) ELEMENT CONDITION: Required if G6204 is used. 8 Actual Pickup Time [85-03] Actual Pickup Time 9 Actual Delivery Time [85-03] Actual Delivery Time A Actual Departure Time [85-03] Actual Departure Time	**X**	**ID 1/2**
	G6204	**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 DD = decimal seconds; decimal seconds are expressed as follows: D = tenths (0-9) and DD = hundredths (00-99) [85-04] Stop Arrival/Departure Times (DG 80) Scheduled time at which stop will occur. Use time format HHMM.	**X**	**TM 4/8**
X	**G6205**	**623**	**Time Code** Refer to 004010 Data Element Dictionary for acceptable code values.	**O**	**ID 2/2**

Segment: **N1** **Name**
Position: 490
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: [86] N1 SEGMENT - Stop Name of Party to Receive Shipment (DG 80)

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
M	**N101**	**98**	**Entity Identifier Code** Code identifying an organizational entity, a physical location, property or an individual [86-01] Stop Name Of Party To Receive Shipment Qualifier (DG 80) LP — Loading Party [86-01] Loading Party UP — Unloading Party [86-01] Unloading Party	**M ID 2/3**
	N102	**93**	**Name** Free-form name [86-02] Stop Name Of Party To Receive Shipment (DG 80) ELEMENT CONDITION: If stop DoDAAC/CAGE/MAPAC is unavailable (N104='XXXXXX'), then the clear text name of the stop is required.	**X AN 1/60**
>>	**N103**	**66**	**Identification Code Qualifier** Code designating the system/method of code structure used for Identification Code (67) [86-03] Stop DoDAAC/CAGE/MAPAC Qualifier (DG 80) Do not use CAGE code for ocean shipments. 10 — Department of Defense Activity Address Code (DODAAC) [86-03] Department of Defense Activity Address Code (DODAAC) 33 — Commercial and Government Entity (CAGE) [86-03] Commercial and Government Entity (CAGE) A2 — Military Assistance Program Address Code (MAPAC) Contained in the Military Assistance Program Address Directory (MAPAD); represents the location of an entity [86-03] Military Assistance Program Address Code (MAPAC)	**X ID 1/2**
>>	**N104**	**67**	**Identification Code** Code identifying a party or other code [86-04] Stop DoDAAC/CAGE/MAPAC (DG 80) If stop DoDAAC/CAGE/MAPAC is unavailable, then N104 = 'XXXXXX' and the complete clear text name and address of the stop is required.	**X AN 2/80**
X	**N105**	**706**	**Entity Relationship Code** Refer to 004010 Data Element Dictionary for acceptable code values.	**O ID 2/2**

X	**N106**	**98**	**Entity Identifier Code** Refer to 004010 Data Element Dictionary for acceptable code values.	**O**	**ID 2/3**

Segment: **N2** **Additional Name Information**
Position: 500
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: [87] N2 SEGMENT - Stop Name of Party to Receive Shipment (DG 80)
SEGMENT CONDITION: Use if stop name of party to receive shipment applies.

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
M	**N201**	**93**	**Name**	**M**	**AN 1/60**
			Free-form name		
			[87-01] Additional Name (DG 80)		
X	**N202**	**93**	**Name**	**O**	**AN 1/60**

Segment: **N3** **Address Information**
Position: 510
Loop: N1 Optional (Must Use)
Level: Heading
Usage: Optional
Max Use: 2
Purpose: To specify the location of the named party
Syntax Notes:
Semantic Notes:
Comments:
Notes: [88] N3 SEGMENT - Stops (DG 80)
SEGMENT CONDITION: Use if stop street address of party to receive shipment applies.

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
M	**N301**	**166**	**Address Information** Address information [88-01] Street (DG 80)	**M**	**AN 1/55**
	N302	**166**	**Address Information** Address information [88-02] Additional Addressing Information (DG 80)	**O**	**AN 1/55**

Segment: **N4** **Geographic Location**
Position: 520
Loop: N1 Optional (Must Use)
Level: Heading
Usage: Optional
Max Use: 1
Purpose: To specify the geographic place of the named party
Syntax Notes: **1** If N406 is present, then N405 is required.
Semantic Notes:
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: [89] N4 SEGMENT - Stops (DG 80)
SEGMENT CONDITION: Use if stop city/state of party to receive shipment applies.

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
	N401	**19**	**City Name** Free-form text for city name [89-01] City (DG 80)	**O**	**AN 2/30**
	N402	**156**	**State or Province Code** Code (Standard State/Province) as defined by appropriate government agency [89-02] State (DG 80) Also use for province if shipment is Canadian. 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) [89-03] Stop ZIP Code/Postal Code (DG 80) 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 [89-04] Country Code (DG 80) ELEMENT CONDITION: If stop is OCONUS, country code is required. SOURCE: Code for Representation of Names of Countries, Geopolitical Entities, Names, and Codes (GENC), is represented in the National System for Geospatial Intelligence (NSG) GENC Registry and mirrored at http://www.transcom.mil/dteb/files/refdata/V_CTRY_DOD.htm. Codes for Representation of Currencies and Funds, ISO 4217, is available from American National Standards Institute.	**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: **PER** **Administrative Communications Contact**
Position: 540
Loop: N1 Optional (Must Use)
Level: Heading
Usage: Optional
Max Use: 3
Purpose: To identify a person or office to whom administrative communications should be directed
Syntax Notes:
1 If either PER03 or PER04 is present, then the other is required.
2 If either PER05 or PER06 is present, then the other is required.
3 If either PER07 or PER08 is present, then the other is required.
Semantic Notes:
Comments:
Notes: [90] PER SEGMENT - Stop Communication Numbers (DG 80)
SEGMENT CONDITION: Use if stop communication numbers apply.

Data Element Summary

	Ref. Des.	Data Element	Name		Attributes	
M	**PER01**	**366**	**Contact Function Code**		**M**	**ID 2/2**
			Code identifying the major duty or responsibility of the person or group named			
			[90-01] Stop Communication Numbers Qualifier (DG 80)			
			IC	Information Contact		
				[90-01] Information Contact		
X	**PER02**	**93**	**Name**		**O**	**AN 1/60**
>>	**PER03**	**365**	**Communication Number Qualifier**		**X**	**ID 2/2**
			Code identifying the type of communication number			
			[90-03] Stop Communication Numbers Contact Qualifier (DG 80)			
			IT	International Telephone		
				[90-03] International Telephone		
			TE	Telephone		
				[90-03] Telephone		
>>	**PER04**	**364**	**Communication Number**		**X**	**AN 1/80**
			Complete communications number including country or area code when applicable			
			[90-04] Stop Communication Numbers Contact (DG 80)			
X	**PER05**	**365**	**Communication Number Qualifier**		**X**	**ID 2/2**
			Refer to 004010 Data Element Dictionary for acceptable code values.			
X	**PER06**	**364**	**Communication Number**		**X**	**AN 1/80**
X	**PER07**	**365**	**Communication Number Qualifier**		**X**	**ID 2/2**
			Refer to 004010 Data Element Dictionary for acceptable code values.			
X	**PER08**	**364**	**Communication Number**		**X**	**AN 1/80**
X	**PER09**	**443**	**Contact Inquiry Reference**		**O**	**AN 1/20**

Segment: **FA1** **Type of Financial Accounting Data**
Position: 550
Loop: FA1 Optional
Level: Heading
Usage: Optional
Max Use: 1
Purpose: To specify the organization controlling the content of the accounting citation, and the purpose associated with the accounting citation
Syntax Notes:
Semantic Notes:
1 FA101 Identifies the organization controlling the assignment of financial accounting information.
2 FA102 Identifies the purpose of the accounting allowance or charge information.
Comments:
Notes: [91] FA1 SEGMENT - Appropriation (DG 10) If there is only one Transportation Accounting Code or Line of Accounting at the header level, then it applies to all shipments in that container. If there is TAC/LOA at the header level, and some of the line items in the container have their own TACs/LOAs and some do not, use the TACs/LOAs at the line item level for those specific shipments and default to the header TAC/LOA for all others. If there is an invalid TAC/LOA on a single line item we will use the header TAC/LOA.
LOOP CONDITION: Carriers do not need to receive appropriation data. This segment begins the appropriation number loop. It calls for both FA1 and FA2 segments. Shipper systems that are capable of receiving, storing, and sending structured DoD appropriation numbers may use this loop to exchange those numbers with trading partners.

Data Element Summary

	Ref. Des.	Data Element	Name		Attributes	
M	**FA101**	**559**	**Agency Qualifier Code**		**M**	**ID 2/2**
			Code identifying the agency assigning the code values			
			[91-01] Agency Qualifier Code (DG 10) Code identifying the agency assigning the code values.			
			DF	Department of Defense (DoD)		
				[91-01] Department of Defense (DoD)		
			DN	Department of the Navy		
				[91-01] Department of the Navy		
			DX	United States Marine Corps		
				[91-01] United States Marine Corps		
			DY	Department of Air Force		
				[91-01] Department of Air Force		
			DZ	Department of Army		
				[91-01] Department of Army		
			HS	Department of Health and Human Services		
				[91-01] Department of Health and Human Services Use 'HS' to denote Department of Homeland Security/US Coast Guard (DHS/USCG)		
X	**FA102**	**1300**	**Service, Promotion, Allowance, or Charge Code**		**O**	**ID 4/4**
X	**FA103**	**248**	**Allowance or Charge Indicator**		**O**	**ID 1/1**
			Refer to 004010 Data Element Dictionary for acceptable code values.			

Segment: **FA2** **Accounting Data**
Position: 560
Loop: FA1 Optional
Level: Heading
Usage: Mandatory
Max Use: >1
Purpose: To specify the detailed accounting data
Syntax Notes:
Semantic Notes:
Comments:
Notes: [92] FA2 SEGMENT - Appropriation Breakdown Structure (DG 10)
This segment is MANDATORY if and only if the FA1 SEGMENT - Appropriation segment is used. Otherwise, this segment may not be used.

Data Element Summary

	Ref. Des.	Data Element	Name		Attributes
M	**FA201**	**1196**	**Breakdown Structure Detail Code**		**M ID 2/2**
			Codes identifying details relating to a reporting breakdown structure tree		
			[92-01] Breakdown Structure Detail Code (DG 10)		
			84	Total Direct Costs	
				[92-01] Total Direct Costs	
			A1	Department Indicator	
				[92-01] Department Indicator	
			A2	Transfer from Department	
				[92-01] Transfer from Department	
			A3	Fiscal Year Indicator	
				[92-01] Fiscal Year Indicator	
			A4	Basic Symbol Number	
				[92-01] Basic Symbol Number	
			A5	Sub-class	
				[92-01] Sub-class	
			A6	Sub-Account Symbol	
				[92-01] Sub-Account Symbol	
			AT	Air Force Transportation Account Code (ATAC)	
				[92-01] Air Force Transportation Account Code (ATAC)	
			B1	Budget Activity Number	
				[92-01] Budget Activity Number	
			B2	Budget Sub-activity Number	
				[92-01] Budget Sub-activity Number	
			B3	Budget Program Activity	
				[92-01] Budget Program Activity	
			C1	Program Element	
				[92-01] Program Element	
			C2	Project Task or Budget Subline	
				[92-01] Project Task or Budget Subline	
			D1	Defense Agency Allocation Recipient	
				[92-01] Defense Agency Allocation Recipient	
			D4	Component Sub-allocation Recipient	
				[92-01] Component Sub-allocation Recipient	
			D6	Sub-allotment Recipient	
				[92-01] Sub-allotment Recipient	

			D7	Work Center Recipient	
				[92-01] Work Center Recipient	
			E1	Major Reimbursement Source Code	
				[92-01] Major Reimbursement Source Code	
			E2	Detail Reimbursement Source Code	
				[92-01] Detail Reimbursement Source Code	
			E3	Customer Indicator	
				[92-01] Customer Indicator	
			F1	Object Class	
				[92-01] Object Class	
			F3	Government or Public Sector Identifier	
				[92-01] Government or Public Sector Identifier	
			G2	Special Interest Code or Special Program Cost Code	
				[92-01] Special Interest Code or Special Program Cost Code	
			I1	Abbreviated Department of Defense (DoD) Budget and Accounting Classification Code (BACC)	
				[92-01] Abbreviated Department of Defense (DoD) Budget and Accounting Classification Code (BACC) Use 'I1' to denote Abbreviated Department of Defense (DoD) Budget and Accounting Classification	
			J1	Document or Record Reference Number	
				[92-01] Document or Record Reference Number	
			K6	Accounting Classification Reference Code	
				[92-01] Accounting Classification Reference Code	
			L1	Accounting Installation Number	
				[92-01] Accounting Installation Number	
			M1	Local Installation Data	
				[92-01] Local Installation Data	
			MD	Movement Designator Code (MDC)	
				[92-01] Movement Designator Code (MDC)	
			N1	Transaction Type	
				[92-01] Transaction Type	
			P5	Foreign Military Sales (FMS) Line Item Number	
				[92-01] Foreign Military Sales (FMS) Line Item Number	
			TA	Transportation Account Code (TAC)	
				[92-01] Transportation Account Code (TAC)	
			ZZ	Mutually Defined	
				[92-01] Mutually Defined	
M	**FA202**	**1195**	**Financial Information Code**	**M**	**AN 1/80**
			Code representing financial accounting information		
			[92-02] Financial Information Code (DG 10) When FA201 contains code value '84', FA202 should be formatted as a dollar amount including a decimal character and two positions after the decimal, representing cents even if the value is a whole dollar amount.		

Segment: **L10** **Weight**
Position: 570
Loop: FA1 Optional
Level: Heading
Usage: Optional (Must Use)
Max Use: 1
Purpose: To transmit weight information
Syntax Notes:
Semantic Notes:
Comments:
Notes: [93] L10 SEGMENT - Appropriation Weight (DG 10)
This segment is MANDATORY if and only if the FA1 SEGMENT - Appropriation segment is used. Otherwise, this segment may not be used.

Data Element Summary

	Ref. Des.	Data Element	Name		Attributes	
M	**L1001**	**81**	**Weight**		**M**	**R 1/10**
			Numeric value of weight			
			[93-01] Weight (DG 10) Entry may contain a decimal; if not, decimal is assumed at right-most point of the field.			
M	**L1002**	**187**	**Weight Qualifier**		**M**	**ID 1/2**
			Code defining the type of weight			
			[93-02] Weight Qualifier (DG 10)			
			N	Actual Net Weight		
				[93-02] Actual Net Weight		
>>	**L1003**	**188**	**Weight Unit Code**		**O**	**ID 1/1**
			Code specifying the weight unit			
			[93-03] Weight Unit Code (DG 10)			
			E	Metric Ton		
				[93-03] Metric Ton		
			G	Grams		
				[93-03] Grams		
			K	Kilograms		
				[93-03] Kilograms		
			L	Pounds		
				[93-03] Pounds		
			M	Measurement Ton		
				[93-03] Measurement Ton		
			O	Ounces		
				[93-03] Ounces		
			S	Short Ton		
				[93-03] Short Ton		
			T	Long Ton		
				[93-03] Long Ton		

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

1 The HL segment is used to identify levels of detail information using a hierarchical structure, such as relating line-item data to shipment data, and packaging data to line-item data.
The HL segment defines a top-down/left-right ordered structure.

2 HL01 shall contain a unique alphanumeric number for each occurrence of the HL segment in the transaction set. For example, HL01 could be used to indicate the number of occurrences of the HL segment, in which case the value of HL01 would be "1" for the initial HL segment and would be incremented by one in each subsequent HL segment within the transaction.

3 HL02 identifies the hierarchical ID number of the HL segment to which the current HL segment is subordinate.

4 HL03 indicates the context of the series of segments following the current HL segment up to the next occurrence of an HL segment in the transaction. For example, HL03 is used to indicate that subsequent segments in the HL loop form a logical grouping of data referring to shipment, order, or item-level information.

5 HL04 indicates whether or not there are subordinate (or child) HL segments related to the current HL segment.

Notes: [94] HL SEGMENT - Line Item Detail (DG 100)
[148] HL SEGMENT - Gross Weight Description Loop (DG 200)
LOOP CONDITION: Use when gross weight description applies.
[150] HL SEGMENT - Detail - Tare Weight Description Loop (DG 200)
LOOP CONDITION: Use when tare weight description is required.
[152] HL SEGMENT - Net Weight Description Loop (DG 200)
The HL Net Weight Description Loop must occur for the shipment net weight. The HL Net Weight Description Loop must occur for the shipment net weight.
[154] HL SEGMENT - Net Explosive Weight Description Loop (English) (DG 200)
LOOP CONDITION: Required if the Defense Transportation Tracking System (DTTS) is required and the shipment is an explosive danger.
[157] HL SEGMENT - Net Explosive Weight Description Loop (Metric) (DG 200)
LOOP CONDITION: Required if the Defense Transportation Tracking System (DTTS) is required and the shipment is an explosive danger.
[160] HL SEGMENT - Dunnage Weight Description Loop (DG 200)
LOOP CONDITION: Required if dunnage weight description Loop is required.
[162] HL SEGMENT - Pallet Weight Description Loop (DG 200)
LOOP CONDITION: Required if pallet weight applies.
[164] HL SEGMENT - Skid Weight Description Loop (DG 200)
LOOP CONDITION: Required if skid weight is required.
[166] HL SEGMENT - Freight Weight Description Loop (DG 200)
[168] HL SEGMENT - Accessorial/Protective Services Loop (DG 300)
LOOP CONDITION: Required if the shipment calls for accessorial or protective service. One HL Accessorial/Protective Services Loop must occur for each service ordered.
[174] HL SEGMENT - Level of Service Loop (DG 300)
LOOP CONDITION: Use for air freight shipments.
[178] HL SEGMENT - Fuel Surcharge Loop (DG 301)
LOOP CONDITION: Required only when Mode is Air (BX02 code values 'AF'. 'AH', 'FA') or Motor, as long as fuel surcharge policy is in effect.
[181] HL SEGMENT - Commodity Classification Summary Loop (DG 400)
LOOP CONDITION: Required except for ocean and SPOT BID shipments.
[187] HL SEGMENT - ITO Quality Management Info Loop Qualifier (DG 500)
LOOP CONDITION: Use if the shipper needs to report quality control information, DG 500 must appear.
[191] HL SEGMENT - Transportation Working Capital Fund (TWCF) Recovery Fee Loop (DG 600)
LOOP CONDITION: Required for all Defense Freight Transportation Services (DFTS) shipments.

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
M	**HL01**	**628**	**Hierarchical ID Number**	**M AN 1/12**
			A unique number assigned by the sender to identify a particular data segment in a hierarchical structure	
			[94-01] Detail - Line Item Description Loop (DG 100) Use the value '1' for the first HL loop and increment by 1 for each successive HL loop, regardless of usage of the HL loop. An HL Line Item Description Loop is generated for each DG 100. A shipment unit is identified by a single Transportation Control Number (TCN). Each commodity description cites the TCN it is grouped under. A shipment unit may cite multiple commodities. DG 100, commodity header information, describes one commodity (NMFC, UFC, DoD unique). The commodity detail information, DG 120, describes the type pack information in the L0 loop. There can be multiple type packs per line item. [148-01] Detail - Gross Weight Description (DG 200) Use the value '1' for the first HL loop and increment by 1 for each successive HL loop regardless of usage of the HL loop. This segment begins the loop used to describe weights that apply to the entire shipment.	

[150-01] Detail - Tare Weight Description Loop (DG 200)
Use the value '1' for the first HL loop and increment by 1 for each successive HL loop regardless of usage of the HL loop. This segment begins the loop used to describe tare weights that apply to the entire shipment.
[152-01] Detail - Net Weight Description Loop (DG 200)
Use the value '1' for the first HL loop and increment by 1 for each successive HL loop regardless of usage of the HL loop. This segment begins the loop used to describe net weights that apply to the entire shipment.
[154-01] Detail - Net Explosive Weight Description Loop (English) (DG 200)
Use the value '1' for the first HL loop and increment by 1 for each successive HL loop regardless of usage of the HL loop. This segment begins the loop used to describe English weights that apply to the entire shipment.
[157-01] Detail - Net Explosive Weight Description Loop (Metric) (DG 200)
Use the value '1' for the first HL loop and increment by 1 for each successive HL loop regardless of usage of the HL loop. This segment begins the loop used to describe Net Explosive Weights (Metric) that apply to the entire shipment.
[160-01] Detail - Dunnage Weight Description Loop (DG 200)
Use the value '1' for the first HL loop and increment by 1 for each successive HL loop regardless of usage of the HL loop. This segment begins the loop used to describe Dunnage Weights that apply to the entire shipment.
[162-01] Detail - Pallet Weight Description Loop (DG 200)
Use the value '1' for the first HL loop and increment by 1 for each successive HL loop regardless of usage of the HL loop. This segment begins the loop used to describe pallet weights that apply to the entire shipment.
[164-01] Detail - Skid Weight Description Loop (DG 200)
Use the value '1' for the first HL loop and increment by 1 for each successive HL loop regardless of usage of the HL loop. This segment begins the loop used to describe skid weights that apply to the entire shipment.
[166-01] Detail - Freight Weight Description Loop (DG 200)
Use the value '1' for the first HL loop and increment by 1 for each successive HL loop regardless of usage of the HL loop. This segment begins the loop used to describe freight weights that apply to the entire shipment.
[168-01] Detail - Accessorial/Protective Services Loop (DG 300)
Use the value '1' for the first HL loop and increment by 1 for each successive HL loop regardless of usage of the HL loop. This segment begins the Accessorial/Protective Services Loop. See Section 5.0 (DTEB Freight Bill of Lading Shipment Information Implementation Convention) for looping logic and examples.
[174-01] Hierarchical ID Number (DG 300)
[178-01] Detail - Fuel Surcharge Loop (DG 301)
Use the value '1' for the first HL loop and increment by 1 for each successive HL loop regardless of usage of the HL loop. This segment begins the loop used to describe a fuel surcharge.
[181-01] Detail - Commodity Classification Summary Loop (DG 400)
Use the value '1' for the first HL loop and increment by 1 for each successive HL loop regardless of usage of the HL loop. This segment begins a loop used to describe each different type of commodity being moved under the bill. Description of each individual commodity type requires an HL Segment.
[187-01] Detail - ITO Quality Management Info Loop Qualifier (DG 500)
Use the value '1' for the first HL loop and increment by 1 for each successive HL loop regardless of usage of the HL loop. This segment begins the loop used to carry ITO Quality Management Information.
[191-01] Detail - TWCF Recovery Fee Loop (DG 600)
Use the value '1' for the first HL loop and increment by 1 for each successive HL loop regardless of usage of the HL loop. This segment begins the loop used to describe the TWCF recovery fee associated to DFTS shipments.

X	**HL02**	**734**	**Hierarchical Parent ID Number**	**O**	**AN 1/12**
M	**HL03**	**735**	**Hierarchical Level Code**	**M**	**ID 1/2**

Code defining the characteristic of a level in a hierarchical structure

[94-03] Hierarchical Level Code (DG 100)
This code identifies the Line Item Description Loop.
[148-03] Hierarchical Level Code (DG 200)
This code identifies the Gross Weight Description Loop.
[150-03] Hierarchical Level Code (DG 200)
This code identifies the Tare Weight Description Loop.
[152-03] Hierarchical Level Code (DG 200)
This code identifies the Net Weight Description Loop.
[154-03] Hierarchical Level Code (DG 200)
This code identifies the Net Explosive Weight Description (English) Loop.
[157-03] Hierarchical Level Code (DG 200)
This code identifies the Net Explosive Weight Description (Metric) Loop.
[160-03] Hierarchical Level Code (DG 200)
This code identifies the Dunnage Weight Description Loop.
[162-03] Hierarchical Level Code (DG 200)
This code identifies the Pallet Weight Description Loop.
[164-03] Hierarchical Level Code (DG 200)
This code identifies the Skid Weight Description Loop.
[166-03] Hierarchical Level Code (DG 200)
This code identifies the Freight Weight Description Loop.
[168-03] Hierarchical Level Code (DG 300)
This code identifies the Accessorial/Protective Services Loop.
[174-03] Hierarchical Level Code (DG 300)
[178-03] Hierarchical Level Code (DG 301)
This code identifies the Fuel Surcharge Loop.
[181-03] Hierarchical Level Code (DG 400)
This code identifies the Commodity Classification Summary Loop.
[187-03] Hierarchical Level Code (DG 500)
This code identifies the ITO Quality Management Information Loop.
[191-03] Hierarchical Level Code (DG 600)
This code identifies the TWCF Recovery Fee Loop.

2	Billing Arrangement Code identifying a specified billing arrangement [178-03] Billing Arrangement
AD	Administrative Information [187-03] Administrative Information
CT	Cost Type A breakdown of the type of cost being incurred [191-03] Cost Type Use 'CT' to denote Transportation Working Capital Fund (TWCF) Recovery Fee
D	Product Description [181-03] Product Description
I	Item [94-03] Item

			PH	Product Characteristic		
				[148-03] Product Characteristic [150-03] Product Characteristic [152-03] Product Characteristic [154-03] Product Characteristic [157-03] Product Characteristic [160-03] Product Characteristic [162-03] Product Characteristic [164-03] Product Characteristic [166-03] Product Characteristic		
			SS	Services		
				[168-03] Services [174-03] Services		
X	**HL04**	**736**	**Hierarchical Child Code**		**O**	**ID 1/1**
			Refer to 004010 Data Element Dictionary for acceptable code values.			

Segment: **N7** **Equipment Details**
Position: 020
Loop: HL Mandatory
Level: Detail
Usage: Optional
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: [95] N7 SEGMENT - Primary Equipment Identifier (DG 100)
SEGMENT CONDITION: This segment is required in the line item detail if the shipment moves on multiple pieces of primary equipment. Use this segment to associate the line item with the primary equipment on which it is conveyed. Associate with equipment identified in N7 segment, DataGroup 60.
[169] N7 SEGMENT - Primary Equipment Identifier (DG 300)
SEGMENT CONDITION: Required if the shipment moves on multiple pieces of equipment and the accessorial/protective service applies to a particular piece of equipment. Do not use this segment if the accessorial/protective service applies to the whole shipment.

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
	N701	**206**	**Equipment Initial** Prefix or alphabetic part of an equipment unit's identifying number [95-01] Primary Equipment Initials (DG 100) This data element satisfies in transit visibility requirements for multi-equipment shipments. It describes initials of the furnished primary equipment in/on which the commodity is conveyed. SOURCE: IATA Unit Load Devices Manual available from International Air Transport Association [169-01] Equipment Initial (DG 300) This data element satisfies in transit visibility requirements for multi-equipment shipments. It describes initials of the furnished primary equipment in/on which the commodity is conveyed. ELEMENT CONDITION: If the value in N702 is other than 'NONE', or the equipment initials are not available, use the SCAC. SOURCE: IATA Unit Load Devices Manual available from International Air Transport Association	**O**	**AN 1/4**
M	**N702**	**207**	**Equipment Number** Sequencing or serial part of an equipment unit's identifying number (pure numeric form for equipment number is preferred) [95-02] Primary Equipment Numbers (DG 100) This data element satisfies in transit visibility requirements for multi-equipment shipments. It describes numbers on the furnished primary equipment in/on which the commodity is conveyed. [169-02] Equipment Number (DG 300) This data element satisfies in transit visibility requirements for multi-equipment shipments. It describes numbers on the furnished primary equipment in/on which the commodity is conveyed.	**M**	**AN 1/10**
X	**N703**	**81**	**Weight**	**X**	**R 1/10**
X	**N704**	**187**	**Weight Qualifier** Refer to 004010 Data Element Dictionary for acceptable code values.	**X**	**ID 1/2**
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**
X	**N708**	**183**	**Volume**	**X**	**R 1/8**
X	**N709**	**184**	**Volume Unit Qualifier**	**X**	**ID 1/1**
			Refer to 004010 Data Element Dictionary for acceptable code values.		
X	**N710**	**102**	**Ownership Code**	**O**	**ID 1/1**
			Refer to 004010 Data Element Dictionary for acceptable code values.		
X	**N711**	**40**	**Equipment Description Code**	**O**	**ID 2/2**
			Refer to 004010 Data Element Dictionary for acceptable code values.		
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**
X	**N715**	**567**	**Equipment Length**	**O**	**N0 4/5**
X	**N716**	**571**	**Tare Qualifier Code**	**X**	**ID 1/1**
			Refer to 004010 Data Element Dictionary for acceptable code values.		
X	**N717**	**188**	**Weight Unit Code**	**O**	**ID 1/1**
			Refer to 004010 Data Element Dictionary for acceptable code values.		
X	**N718**	**761**	**Equipment Number Check Digit**	**O**	**N0 1/1**
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**
X	**N722**	**24**	**Equipment Type**	**O**	**ID 4/4**
X	**N723**	**140**	**Standard Carrier Alpha Code**	**O**	**ID 2/4**
X	**N724**	**301**	**Car Type Code**	**O**	**ID 1/4**

Segment: **NA** **Cross-Reference Equipment**
Position: 030
Loop: HL Mandatory
Level: Detail
Usage: Optional
Max Use: 1
Purpose: To cross-reference additional equipment to a primary piece of equipment
Syntax Notes:
1 If NA01 is present, then NA02 is required.
Semantic Notes:
1 NA07 is the owner's Standard Carrier Alpha Code (SCAC) code.
2 NA11 indicates the equipment damage status. A "Y" indicates equipment is damaged; an "N" indicates equipment is not damaged.
Comments:
1 NA03 contains the equipment initial of an associated shipment and is required by rail. If unknown, use NONZ for van or NONU for container.
2 NA04 contains the equipment number of an associated shipment.
3 NA09 is the Standard Carrier Alpha Code (SCAC) code of the operator of the equipment.
Notes:
[96] NA SEGMENT - Shipper Equipment Numbers (DG 100)
Shipper owned vehicles, like trucks, jeeps, and tanks, are identified using a different mapping of the NA segment in the HL Line Item Description Loop. See the following occurrence of the NA segment for mapping of vehicles information.
SEGMENT CONDITION: This segment required to indicate the mapping for shipper equipment numbers when applicable. Shipper equipment is that equipment/vehicle which is supplied/owned by the shipper. This includes DROMs, containers, and vans.
[97] NA SEGMENT - Military Vehicle Identification (DG 100)
SEGMENT CONDITION: This segment required to indicate the mapping for shipper owned vehicles when applicable. This includes cars, jeeps, tanks, and trucks. See the previous occurrence of the NA segment for mapping of shipper equipment information. The model number maps to NTE SEGMENT - Vehicle Model Number.

Data Element Summary

	Ref. Des.	Data Element	Name		Attributes	
	NA01	**128**	**Reference Identification Qualifier**		**O**	**ID 2/3**
			Code qualifying the Reference Identification			
			[97-01] Military Vehicle Identification/Serial Number Qualifier (DG 100) ELEMENT CONDITION: Required if NA02 is used.			
			SE	Serial Number		
				[97-01] Serial Number		
			VT	Motor Vehicle ID Number		
				[97-01] Motor Vehicle ID Number		
	NA02	**127**	**Reference Identification**		**X**	**AN 1/30**
			Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier			
			[97-02] Military Vehicle Identification/Serial Number (DG 100) Use VIN to describe the vehicles being moved.			
M	**NA03**	**206**	**Equipment Initial**		**M**	**AN 1/4**
			Prefix or alphabetic part of an equipment unit's identifying number			
			[96-03] Shipper Equipment Initials (DG 100) [97-03] Military Vehicle Initials (Filler) (DG 100)			
			DODV	New Code Added by IC		
				[96-03] DoD Van and Container		
			DROM	New Code Added by IC		
				[96-03] Dromedary Equipment		
			NONX	New Code Added by IC		
				[97-03] Vehicle		

M	**NA04**	**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) [96-04] Shipper Equipment Numbers (DG 100) Use for Initials and Serial Number of the Shipper Owned Containers/DROMs. [97-04] Military Vehicle Bumper Number (DG 100) Use 'NONE' if bumper number is unavailable.		
X	**NA05**	**231**	**Cross Reference Type Code**	**O**	**ID 1/1**
			Refer to 004010 Data Element Dictionary for acceptable code values.		
X	**NA06**	**219**	**Position**	**O**	**AN 1/3**
X	**NA07**	**140**	**Standard Carrier Alpha Code**	**O**	**ID 2/4**
X	**NA08**	**567**	**Equipment Length**	**O**	**N0 4/5**
X	**NA09**	**140**	**Standard Carrier Alpha Code**	**O**	**ID 2/4**
X	**NA10**	**845**	**Chassis Type**	**O**	**ID 2/2**
			Refer to 004010 Data Element Dictionary for acceptable code values.		
X	**NA11**	**1073**	**Yes/No Condition or Response Code**	**O**	**ID 1/1**
			Refer to 004010 Data Element Dictionary for acceptable code values.		

Segment: **M7** **Seal Numbers**
Position: 040
Loop: HL Mandatory
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: [98] M7 SEGMENT - Seals (DG 100)
SEGMENT CONDITION: Required when seals are applied.

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
M	**M701**	**225**	**Seal Number** Unique number on seal used to close a shipment [98-01] Seals On Shipper Owned Equipment (DG 100) Use to describe seal applied to equipment (Containers, DROMs) owned by the shipper.	**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** Refer to 004010 Data Element Dictionary for acceptable code values.	**O**	**ID 2/3**

Segment: **L7** **Tariff Reference**
Position: 090
Loop: HL Mandatory
Level: Detail
Usage: Optional
Max Use: 10
Purpose: To reference details of the tariff used to arrive at applicable rates or charge
Syntax Notes:
Semantic Notes: **1** L710 is the effective date.
2 In L715 and L716, "City" and "State" are used for rate combination city and state.
Comments:
Notes: [182] L7 SEGMENT - Tariff/Tender Rate Authority (DG 400)
SEGMENT CONDITION: Used for SPOT BID shipments as well as ocean shipments.

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
X	**L701**	**213**	**Lading Line Item Number**	**O**	**N0 1/3**
>>	**L702**	**168**	**Tariff Agency Code**	**O**	**ID 1/4**
			Code defining the tariff bureau or tariff publishing agent that governs the rates applied to this shipment		
			[182-02] Tariff/Tender Rate Authority (SCAC) (DG 400) The Standard Carrier Alpha Code that prefixes the tender number. SOURCE: Directory of Standard Multi-Model Carriers and Tariff Agents Codes (SCAC - STAC), NMF 101 Series available from National Motor Freight Traffic Association, Inc.		
>>	**L703**	**171**	**Tariff Number**	**O**	**AN 1/7**
			Standard tariff number for the tariff which governs the rates applied to the commodity item(s)		
			[182-03] Tariff/Tender Number (DG 400)		
X	**L704**	**172**	**Tariff Section**	**O**	**AN 1/2**
X	**L705**	**169**	**Tariff Item Number**	**O**	**AN 1/16**
X	**L706**	**170**	**Tariff Item Part**	**O**	**N0 1/2**
X	**L707**	**59**	**Freight Class Code**	**O**	**AN 2/5**
	L708	**173**	**Tariff Supplement Identifier**	**O**	**AN 1/4**
			Identifier for the tariff supplement which contains the rate used		
			[182-08] Tariff/Tender Supplement Identifier (DG 400) Enter two-digit number, using leading zero as required.		
X	**L709**	**46**	**Ex Parte**	**O**	**AN 4/4**
	L710	**373**	**Date**	**O**	**DT 8/8**
			Date expressed as CCYYMMDD		
			[182-10] Tariff/Tender Effective Date (DG 400) Include for Tailored Transportation Contract (TTC) Traffic shipments.		
X	**L711**	**119**	**Rate Basis Number**	**O**	**AN 1/6**
X	**L712**	**227**	**Tariff Column**	**O**	**AN 1/2**
X	**L713**	**294**	**Tariff Distance**	**O**	**N0 1/5**
X	**L714**	**295**	**Distance Qualifier**	**O**	**ID 1/1**
			Refer to 004010 Data Element Dictionary for acceptable code values.		
X	**L715**	**19**	**City Name**	**O**	**AN 2/30**
X	**L716**	**156**	**State or Province Code**	**O**	**ID 2/2**

Segment: **SL1** **Tariff Reference**
Position: 095
Loop: HL Mandatory
Level: Detail
Usage: Optional
Max Use: 1
Purpose: To reference details of the tariff used to arrive at applicable rates or charges for customer-requested service
Syntax Notes: **1** At least one of SL103 or SL104 is required.
Semantic Notes: **1** SL101 is the service requested by the customer.
2 SL105 is the effective date.
3 SL106 is the service provided by the carrier.
Comments: **1** Scale and commodity codes are proprietary codes maintained by the carrier.
Notes: [175] SL1 SEGMENT - Level of Service (DG 300)
SEGMENT CONDITION: Required for air freight shipments.

Data Element Summary

	Ref. Des.	Data Element	Name		Attributes	
M	**SL101**	**284**	**Service Level Code**		**M**	**ID 2/2**
			Code indicating the level of transportation service or the billing service offered by the transportation carrier			
			[175-01] Service Level Code (DG 300)			
			D1	Delivery Scheduled Next Day by Cartage Agent		
				[175-01] Delivery Scheduled Next Day by Cartage Agent Use 'D1' to denote Overnight		
			D2	Delivery scheduled second day by cartage agent		
				[175-01] Delivery scheduled second day by cartage agent Use 'D2' to denote Second Day		
			D3	Delivery scheduled third day by cartage agent		
				[175-01] Delivery scheduled third day by cartage agent Use 'D3' to denote Deferred		
			SG	Standard Ground		
				[175-01] Standard Ground Use 'SG' to denote Priority		
X	**SL102**	**171**	**Tariff Number**		**O**	**AN 1/7**
>>	**SL103**	**22**	**Commodity Code**		**X**	**AN 1/30**
			Code describing a commodity or group of commodities			
			[175-03] Required Element (DG 300) Enter value zero (0) to satisfy X12 syntax.			
X	**SL104**	**320**	**Scale**		**X**	**AN 1/10**
X	**SL105**	**373**	**Date**		**O**	**DT 8/8**
X	**SL106**	**284**	**Service Level Code**		**O**	**ID 2/2**
			Refer to 004010 Data Element Dictionary for acceptable code values.			
X	**SL107**	**146**	**Shipment Method of Payment**		**O**	**ID 2/2**
			Refer to 004010 Data Element Dictionary for acceptable code values.			
X	**SL108**	**982**	**Data Source Code**		**O**	**ID 2/2**
			Refer to 004010 Data Element Dictionary for acceptable code values.			
X	**SL109**	**210**	**International/Domestic Code**		**O**	**ID 1/1**
			Refer to 004010 Data Element Dictionary for acceptable code values.			

Segment: **N9** **Reference Identification**
Position: 100
Loop: HL Mandatory
Level: Detail
Usage: Optional (Must Use)
Max Use: 10
Purpose: To transmit identifying information as specified by the Reference Identification Qualifier
Syntax Notes:
1 At least one of N902 or N903 is required.
2 If N906 is present, then N905 is required.
3 If either C04003 or C04004 is present, then the other is required.
4 If either C04005 or C04006 is present, then the other is required.
Semantic Notes:
1 N906 reflects the time zone which the time reflects.
2 N907 contains data relating to the value cited in N902.
Comments:
Notes:
[99] N9 SEGMENT - Requisition Number (DG 100)
SEGMENT CONDITION: Required if available.
[100] N9 SEGMENT - TCN (DG 100)
[101] N9 SEGMENT - National Stock No./Manufacturer's Part No. (DG 100)
SEGMENT CONDITION: Required if available.
[102] N9 SEGMENT - Project Code (DG 100)
SEGMENT CONDITION: Required if project code is used.
[103] N9 SEGMENT - Stop Sequence Number Cross-Reference (DG 100)
[104] N9 SEGMENT - External Tracking Number (XTN) (DG 100)
SEGMENT CONDITION: Use for USML shipments. U.S. Customs' Automated Export System uses this number.
[105] N9 SEGMENT - LIN Index Number (DG 100)
SEGMENT CONDITION: Use for Army Unit moves.
[106] N9 SEGMENT - Line Item Number (DG 100)
SEGMENT CONDITION: Use for Army Unit moves.
[107] N9 SEGMENT - Controlled Inventory Item Code (CIIC) (DG 100)
SEGMENT CONDITION: Required if the Defense Transportation Tracking System (DTTS) is required and if DoD-controlled item has a CIIC assigned.
[108] N9 SEGMENT - DoD Identification Code (DoDIC) (DG 100)
SEGMENT CONDITION: Required for DTTS if the hazardous shipment contains ammunition.
[170] N9 SEGMENT - Service Performed (DG 300)
SEGMENT CONDITION: Required for accessorial/protective services.
[171] N9 SEGMENT - Stop Sequence Number (DG 300)
SEGMENT CONDITION: Required if stop-offs occur.
[188] N9 SEGMENT - Reason (Not Lowest Cost) (DG 500)
SEGMENT CONDITION: Required only if HL SEGMENT - ITO Quality Management Info Loop Qualifier is used.

Data Element Summary

	Ref. Des.	Data Element	Name		Attributes
M	**N901**	**128**	**Reference Identification Qualifier**		**M ID 2/3**
			Code qualifying the Reference Identification		
			[99-01] Requisition Number Qualifier (DG 100) [100-01] TCN Qualifier (DG 100) [101-01] National Stock No./Manufacturer's Part No. Qualifier (DG 100) This qualifier must appear if NSN is used. Use Manufacturer's Part Number if NSN is not available. [102-01] Project Code Qualifier (DG 100) [103-01] Stop Sequence Number Cross-Reference Qualifier (DG 100) [104-01] Reference Identification Qualifier (DG 100) [105-01] LIN Index Number Qualifier (DG 100) [106-01] Line Item Number Qualifier (DG 100) [107-01] Controlled Inventory Item Code (CIIC) Qualifier (DG 100) [108-01] DoDIC Qualifier (DG 100) [170-01] Service Performed Identifier (DG 300) [171-01] Stop Sequence Number Qualifier (DG 300) [188-01] Reason (Not Lowest Cost) Qualifier (DG 500) This qualifier must appear if not lowest cost is used.		
			1I	Department of Defense Identification Code (DoDIC)	
				Qualifies a code that uniquely identifies a type of explosive or ammunition	
				[108-01] Department of Defense Identification Code (DoDIC)	
			1P	Accessorial Status Code	
				Qualifies a single number that describes the status of an accessorial transportation service	
				[170-01] Accessorial Status Code	
			25	Reason Not Lowest Cost Code	
				Qualifies a code that identifies why a service/rate other than the least costly service/rate was used	
				[188-01] Reason Not Lowest Cost Code	
			BCI	Basic Contract Line Item Number	
				[105-01] Basic Contract Line Item Number	
			ED	Export Declaration	
				[104-01] Export Declaration	
			LI	Line Item Identifier (Seller's)	
				[106-01] Line Item Identifier (Seller's)	
			M6	Military Ordnance Security Risk Number	
				A number that identifies the security risk of transporting arms and ammunition	
				[107-01] Military Ordnance Security Risk Number Use 'M6' to denote Controlled Inventory Item Code (CIIC)	
			MF	Manufacturers Part Number	
				[101-01] Manufacturers Part Number	
			NS	National Stock Number	
				[101-01] National Stock Number	
			P4	Project Code	
				[102-01] Project Code	
			QN	Stop Sequence Number	
				[103-01] Stop Sequence Number [171-01] Stop Sequence Number	
			RQ	Purchase Requisition Number	
				[99-01] Purchase Requisition Number	

			TG Transportation Control Number (TCN) [100-01] 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 [99-02] Requisition Number (DG 100) The requisition number which corresponds to the line item is carried in this data element. [100-02] TCN - Transportation Control Number (DG 100) Every line item (HL Line Item Description Loop) should identify the TCN with which it is associated. [101-02] National Stock No./Manufacturer's Part No. (DG 100) [102-02] Project Code (DG 100) [103-02] Stop Sequence Number Cross-Reference (DG 100) If stops apply to a shipment, a line item is identified with a stop by carrying the sequence number of the stop address in this data element. That sequence number appears in the S5 segment in the header area of the transaction set. [104-02] Reference Identification (DG 100) Use shipper DoDAAC plus TCN. [105-02] LIN Index Number (DG 100) [106-02] Line Item Number (DG 100) [107-02] Controlled Inventory Item Code (CIIC) (DG 100) SOURCE: DoD 4100.39-M (FLIS Manual) Volume 10, Table 61 [108-02] DoDIC (DG 100) Required for all ammunition and explosives. Also called Navy Ammunition Logistics Code (NALC). [170-02] Service Performed Date Qualifier (DG 300) Use the following value to denote the DoD definition as indicated: DP - Date Service was Performed [171-02] Stop Sequence Number (DG 300) If stops apply to a shipment, a service code is identified with a stop by carrying the sequence number of the stop address in this data element. That sequence number appears in the S5 segment in the header area of the transaction set. [188-02] Reason (Not Lowest Cost) (DG 500) Code that identifies the 'Reason Not Lowest Cost' service provided as defined by the "Freight Lading Bill Reason Code" table found in USTranscom Reference Data Management (TRDM), mirrored at http://www.transcom.mil/dteb/files/refdata/V_D_FRGHT_LDNG_BL4_CD.htm.	**X**	**AN 1/30**
X	**N903**	**369**	**Free-form Description**	**X**	**AN 1/45**
	N904	**373**	**Date** Date expressed as CCYYMMDD [170-04] Service Performed Date (DG 300) The date the service was performed.	**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**
	N907	**C040**	**Reference Identifier** To identify one or more reference numbers or identification numbers as specified by the Reference Qualifier [100-07] Transportation Tracking Number (TTN) Composite Header (DG 100) COMPOSITE CONDITION: Required for unit move cargo when Transportation Tracking Number is applicable.	**O**	

M	**C04001**	**128**	**Reference Identification Qualifier**	**M**	**ID 2/3**
			Code qualifying the Reference Identification		
			[100-07-01] Transportation Tracking Number (TTN) Qualifier (DG 100)		
			18 Plan Number The unique identification number assigned for a defined contribution plan [100-07-01] Plan Number Use '18' to denote Transportation Tracking Number (TTN)		
M	**C04002**	**127**	**Reference Identification**	**M**	**AN 1/30**
			Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier		
			[100-07-02] Transportation Tracking Number (TTN). (DG 100)		
	C04003	**128**	**Reference Identification Qualifier**	**X**	**ID 2/3**
			Code qualifying the Reference Identification Refer to 004010 Data Element Dictionary for acceptable code values.		
	C04004	**127**	**Reference Identification**	**X**	**AN 1/30**
			Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier		
	C04005	**128**	**Reference Identification Qualifier**	**X**	**ID 2/3**
			Code qualifying the Reference Identification Refer to 004010 Data Element Dictionary for acceptable code values.		
	C04006	**127**	**Reference Identification**	**X**	**AN 1/30**
			Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier		

Segment: **L5** **Description, Marks and Numbers**
Position: 130
Loop: HL Mandatory
Level: Detail
Usage: Optional (Must Use)
Max Use: 10
Purpose: To specify the line item in terms of description, quantity, packaging, and marks and numbers
Syntax Notes:
1 If either L503 or L504 is present, then the other is required.
2 If L507 is present, then L506 is required.
3 If either L508 or L509 is present, then the other is required.
Semantic Notes:
Comments:
1 L502 may be used to send quantity information as part of the product description.
Notes:
[109] L5 SEGMENT - Classification (DG 100)
[110] L5 SEGMENT - Privately Owned Vehicle (DG 100)
SEGMENT CONDITION: Required for OCEAN CARGO SHIPPING INSTRUCTIONS. Not used otherwise.
[183] L5 SEGMENT - Commodity Description (DG 400)
SEGMENT CONDITION: Required if and only if HL SEGMENT - Commodity Classification Summary Loop is used.

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
X	**L501**	**213**	**Lading Line Item Number**	**O**	**N0 1/3**
	L502	**79**	**Lading Description**	**O**	**AN 1/50**
			Description of an item as required for rating and billing purposes		
			[109-02] Description Of Articles (DG 100) Clear text description of the line item. [110-02] POV Make (DG 100) ELEMENT CONDITION: If this segment appears, at least one of L502 and L506 must be used in this segment. [183-02] Commodity Description (DG 400)		
>>	**L503**	**22**	**Commodity Code**	**X**	**AN 1/30**
			Code describing a commodity or group of commodities		
			[109-03] Classification Item No. (Commodity Code) (DG 100) When the sub-item number is available, provide it in the last two positions of this element. DIC reference is applicable only when qualified with the value 'I' in the L504. [183-03] Commodity Code (DG 400) If the shipment goes FAK, enter the DoD unique FAK code instead of the NMFC/UFC.		

>>	**L504**	**23**	**Commodity Code Qualifier**	**X**	**ID 1/1**
			Code identifying the commodity coding system used for Commodity Code		
			[109-04] Classification Item No. (Commodity Code) Qualifier (DG 100) [183-04] Commodity Code Qualifier (DG 400)		
			D — Department of Defense Unique Codes		
			[109-04] Department of Defense Unique Codes [183-04] Department of Defense Unique Codes		
			I — Milstamp AITC or Water Commodity Code		
			[109-04] Milstamp AITC or Water Commodity Code		
			N — National Motor Freight Classification (NMFC)		
			[109-04] National Motor Freight Classification (NMFC) [183-04] National Motor Freight Classification (NMFC)		
			T — Standard Transportation Commodity Code (STCC)		
			[109-04] Standard Transportation Commodity Code (STCC) [183-04] Standard Transportation Commodity Code (STCC)		
			U — Uniform Freight Classification (UFC)		
			[109-04] Uniform Freight Classification (UFC) [183-04] Uniform Freight Classification (UFC)		
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		
			[109-06] Number On Packages (DG 100) Use to show descriptive marks and numbers on freight. [110-06] Vehicle Color (DG 100) ELEMENT CONDITION: If this segment appears, at least one of L502 and L506 must be used in this segment.		
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: **LH6** **Hazardous Certification**
Position: 134
Loop: HL Mandatory
Level: Detail
Usage: Optional
Max Use: 5
Purpose: To specify the name of the person certifying that the shipment complies with the regulations and/or the actual certification
Syntax Notes: **1** If either LH602 or LH603 is present, then the other is required.
Semantic Notes:
Comments:
Notes: [111] LH6 SEGMENT - Certification Code (49 CFR Compliance) (DG 190)
SEGMENT CONDITION: Required for HAZMAT shipments.

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
>>	**LH601**	**93**	**Name** Free-form name [111-01] HAZMAT - Certifying Person (49CFR Compliance) (DG 190) Clear text. MANDATORY for all hazardous material shipments. SOURCE: 49 CFR 172.204	**O**	**AN 1/60**
>>	**LH602**	**272**	**Hazardous Certification Code** Code indicating the form of the hazardous certification [111-02] HAZMAT - Certification Code (49 CFR Compliance) (DG 190) 1 Abbreviated Hazardous Certification [111-02] Abbreviated Hazardous Certification 2 Long Form of Hazardous Certification [111-02] Long Form of Hazardous Certification	**X**	**ID 1/1**
>>	**LH603**	**273**	**Hazardous Certification Declaration** Hazardous material certification verbiage as required by Title 49 of Code of Federal Regulations [111-03] HAZMAT - Certification Declaration (49 CFR Compliance) (DG 190) Certification verbiage in accordance with 49 CFR 172.204. MANDATORY for all hazardous materials shipments. Verbiage that certifies the entire shipment should appear once in the first occurrence of the HL Line Item Description Loop. SOURCE: Hazardous Materials Regulations of the Department of Transportation by Air, Rail, Highway, and Water available from Association of American Railroads Publications	**X**	**AN 1/25**
	LH604	**273**	**Hazardous Certification Declaration** Hazardous material certification verbiage as required by Title 49 of Code of Federal Regulations [111-04] HAZMAT - Certification Declaration (49 CFR Compliance) (DG 190) ELEMENT CONDITION: Use for any remainder of certification verbiage exceeding 25 characters in LH603. SOURCE: Hazardous Materials Regulations of the Department of Transportation by Air, Rail, Highway, and Water available from Association of American Railroads Publications	**O**	**AN 1/25**

Segment: **NTE** **Note/Special Instruction**
Position: 140
Loop: HL Mandatory
Level: Detail
Usage: Optional
Max Use: 100
Purpose: To transmit information in a free-form format, if necessary, for comment or special instruction
Syntax Notes:
Semantic Notes:
Comments:
1 The NTE segment permits free-form information/data which, under ANSI X12 standard implementations, is not machine processable. The use of the NTE segment should therefore be avoided, if at all possible, in an automated environment.

Notes:
[112] NTE SEGMENT - 3PL Offer Record Number (DG 190)
SEGMENT CONDITION: Use for 3PL coordinated shipments (DTCI or DFTS) only. Required for 3PL coordinated shipments. Matches the shipper's offer record numbers that appear in corresponding 219 Transportation Service Request and a 220 Transportation Service Response.
[113] NTE SEGMENT - Vehicle Model Number (DG 190)
SEGMENT CONDITION: Use to identify the model number for military vehicles as applicable. Required for ocean shipments.
[114] NTE SEGMENT - Unit Line Number (DG 190)
SEGMENT CONDITION: Use to identify unit line number as applicable.
[115] NTE SEGMENT - Transportation Tracking Account Number (TTAN) (DG 190)
SEGMENT CONDITION: Required for unit move cargo when Transportation Tracking Account Number is applicable.
[116] NTE SEGMENT - Other Information (DG 190)
SEGMENT CONDITION: For non-ocean shipments, use to indicate line item level special instructions.
Ocean shipments use for additional comments information or rating information as needed. Repeat once for each qualifier.

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
>>	**NTE01**	**363**	**Note Reference Code** Code identifying the functional area or purpose for which the note applies [112-01] 3PL Offer Record Number Qualifier (DG 190) [113-01] Vehicle Model Number Qualifier (DG 1001) [114-01] Unit Line Number Qualifier (DG 2001) [115-01] Transportation Tracking Account Number (TTAN) Qualifier (DG 190) [116-01] Other Information Qualifier Code (DG 190) Shipments by other than ocean use code value 'OTH'. Ocean shipments use code values 'CIG', 'LIQ', 'ADD', and 'OCR'. ADD — Additional Information [116-01] Additional Information CIG — Cigarette Information [116-01] Cigarette Information EED — Equipment Description [113-01] Equipment Description LIQ — Liquor Information [116-01] Liquor Information OCR — Outside the Continental U.S. (OCONUS) Rating Information [116-01] Outside the Continental U.S. (OCONUS) Rating Information OTH — Other Instructions [116-01] Other Instructions OTN — Another Type of Number Description [114-01] Another Type of Number Description TCF — Tariff Commodity Footnotes [115-01] Tariff Commodity Footnotes Use 'TCF' to denote Transportation Tracking Account Number (TTAN) UPI — Updated Information [112-01] Updated Information Use 'UPI' to denote 3PL Offer Record Number Qualifier	**O ID 3/3**
M	**NTE02**	**352**	**Description** A free-form description to clarify the related data elements and their content [112-02] 3PL Offer Record Number (DG 190) [113-02] Vehicle Model Number (DG 1001) [114-02] Unit Line Number (DG 2001) [115-02] Transportation Tracking Account Number (TTAN) (DG 190) [116-02] Other Information (DG 190) Shipments by other than ocean enter clear text information related to the line item such as velocity management instructions. Ocean shipments enter values depending on code value in NTE01 as follows: With code value 'OCR' use tariff for CONUS to Hawaii/Guam Rating Information. With code value 'CIG' or 'LIQ' use cigarette or liquor information. Repeat segment until all cigarette or liquor data has been entered.	**M AN 1/80**

Segment: **L0** **Line Item - Quantity and Weight**
Position: 145
Loop: L0 Optional (Must Use)
Level: Detail
Usage: Optional (Must Use)
Max Use: 1
Purpose: To specify quantity, weight, volume, and type of service for a line item including applicable "quantity/rate-as" data
Syntax Notes:
1 If either L002 or L003 is present, then the other is required.
2 If either L004 or L005 is present, then the other is required.
3 If either L006 or L007 is present, then the other is required.
4 If either L008 or L009 is present, then the other is required.
5 If L011 is present, then L004 is required.
6 If either L013 or L015 is present, then the other is required.
Semantic Notes:
1 L008 is the number of handling units of the line item tendered to the carrier.
2 L013 can only be used if the code in L009 is PLT, SKD, or SLP.
3 L015 designates whether the carrier will be required to verify the number of units contained on a pallet, slip sheet or skid. Code "Y" indicates that the carrier will be required to verify. Code "N" indicates that the carrier will not be required to verify.
Comments:
1 L013 is used to convey the total number of boxes, cartons, or pieces contained on a pallet, skid, or slip sheet for the line item.
Notes:
[117] L0 SEGMENT - Billed/Rated Quantity (DG 120)
CHANGE NOTE: Segment condition updated per DM 1043. Repeat the L0 loop if there is more than one set of oversized dimensions for the same item.
[124] L0 SEGMENT - Ammunition Lot Number/Number of Pieces (DG 120)
LOOP CONDITION: Required for ocean shipments if shipment contains ammunition. Report pieces, weight, cube and ammunition lot number. Report also in MEA segment (Round Count).
[125] L0 SEGMENT - Dimensional Weight (DG 120)
LOOP CONDITION: Use when dimensional weight applies. Dimensional Weight is the chargeable weight computed on the basis of volume rather than actual weight. GFM will calculate the Dimensional Weight based on dimensions passed in the MEA segments. Shipper systems do not need to provide the Dimensional Weight.
[149] L0 SEGMENT - Shipment Gross Weight (DG 200)
LOOP CONDITION: This segment is required if and only if HL SEGMENT - Gross Weight Description Loop is used.
[151] L0 SEGMENT - Shipment Tare Weight (DG 200)
LOOP CONDITION: Required if and only if HL SEGMENT - Detail - Tare Weight Description Loop is used.
[153] L0 SEGMENT - Shipment Net Weight (DG 200)
[155] L0 SEGMENT - Shipment Net Explosive Weight (Dry) (DG 200)
LOOP CONDITION: Required if and only if HL SEGMENT - Net Explosive Weight Description Loop (English) Loop is used. Then, it is required to satisfy X12 syntax whether explosive is dry or wet.
[158] L0 SEGMENT - Shipment Net Explosive Weight (Dry) (DG 200)
[161] L0 SEGMENT - Shipment Dunnage Weight (DG 200)
LOOP CONDITION: Required if and only if HL SEGMENT - Dunnage Weight Description Loop is used.
[163] L0 SEGMENT - Shipment Pallet Weight (DG 200)
LOOP CONDITION: Required if and only if HL SEGMENT - Pallet Weight Description Loop is used.
[165] L0 SEGMENT - Shipment Skid Weight (DG 200)
LOOP CONDITION: Required if and only if HL SEGMENT - Skid Weight Description Loop is used.
[167] L0 SEGMENT - Shipment Freight Weight (DG 200)
[172] L0 SEGMENT - Service Units (DG 300)
LOOP CONDITION: Required if and only if HL SEGMENT - Accessorial/Protective Services Loop is used.
[176] L0 SEGMENT - Type of Service (DG 300)
LOOP CONDITION: Required for air freight shipments.

[179] L0 SEGMENT - Fuel Surcharge Loop Identifier (DG 301)
LOOP CONDITION: Required if and only if HL SEGMENT - Fuel Surcharge Loop is used.
[184] L0 SEGMENT - Commodity Billed/Rated Quantity (DG 400)
LOOP CONDITION: Required if and only if HL SEGMENT - Commodity Classification Summary Loop is used.
[189] L0 SEGMENT - Quality Control (DG 500)
LOOP CONDITION: This segment is required only if HL SEGMENT - ITO Quality Management Info Loop Qualifier is used.
[192] L0 SEGMENT - Transportation Working Capital Fund (TWCF) Recovery Fee Loop Identifier (DG 600)
LOOP CONDITION: Required if and only if HL SEGMENT - Transportation Working Capital Fund (TWCF) Recovery Fee Loop is used.

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
>>	**L001**	**213**	**Lading Line Item Number** Sequential line number for a lading item [172-01] Service Loop Identifier (DG 300) Use value '300' to indicate service loop. [179-01] Fuel Surcharge Loop Identifier (DG 301) Use value '301' to indicate fuel surcharge loop. [189-01] Item Qualifier (DG 500) Use value '500' to satisfy X12 syntax for the Not Lowest Cost Charge Difference Loop. [192-01] TWCF Recovery Fee Loop Identifier (DG 600) Use value '600' to indicate TWCF Recovery Fee loop.	**O**	**N0 1/3**
>>	**L002**	**220**	**Billed/Rated-as Quantity** Basis for rating (miles, value, volume, etc.); Note: Weight may be defined by either data element 220 or 81 [117-02] Billed/Rated Quantity (DG 120) A commodity is a single type of product or material. Transportation of a commodity is usually billed/rated by units of freight weight. A line item on a transportation bill describes a single commodity. The quantity of a line item commodity is described here in the L0 segment in the HL Detail - Line Item Description Loop. One L0 segment occurs for each type pack under the line item. There may be many line items, i.e., HL Line Item Description Loop, of the same commodity. Two rules must be followed when constructing an L0 segment: 1) If the billed/rated quantity is expressed as freight weight, it appears here. Freight weight is the weight that line haul rate is based upon and may include skid, pallet, and dunnage weights, carried in separate MEA segments. The L004, L005, and L011 elements are not used. 2) If the billed/rated quantity is other than weight, such as barrels or gallons in the case of a pipeline shipment, it also appears here. If entry does not contain a decimal, decimal is assumed at right-most point of the field. In addition, the L004, L005, and L011 elements are used to carry the weight information, if required. For ocean shipments, enter line item weight. [172-02] Service Units (DG 300) The number of units (i.e. hours, 100 weight, etc.) for a specific additional service performed by the carrier. If this number is fractional, carry the decimal; if an integer, a decimal is not required. If service units do not apply, leave L002 and L003 blank. [184-02] Commodity Billed/Rated Quantity (DG 400) All quantities that appear in HL Line Item Description Loops must be accumulated by commodity and carried here within the HL Detail - Commodity Classification Summary Loop. A commodity is a single type of product or material. Transportation of a commodity is usually billed/rated by units of freight weight. A line item on a transportation bill describes a single commodity. The quantity of a line item commodity is described in the HL Detail - Line Item Description loop. There may be many line items (i.e., HL	**X**	**R 1/11**

Detail - Line Item Description loops) of the same commodity. As with line item quantities, to describe accumulated quantities, two rules must be followed when constructing an L0 segment: 1) If the accumulated billed/rated quantity is expressed as freight weight, it appears here. Freight weight is the weight that line haul rate is based upon and may include skid, pallet, and dunnage weights, carried in separate MEA segments. Entry should not contain a decimal; decimal is assumed at right-most point of the field. The L004, L005, and L011 elements are not used. 2) If the accumulated billed/rated quantity is other than weight, such as barrels in the case of a pipeline shipment, it also appears here. In addition, the L004, L005, and L011 elements are used to carry the accumulated weight information, if required.

>>	**L003**	**221**	**Billed/Rated-as Qualifier**	**X**	**ID 2/2**

Code identifying the type of quantity or value on which the rate or item pricing is based

[117-03] Billed/Rated Quantity Qualifier (DG 120)
[172-03] Service Units Qualifier (DG 300)
ELEMENT CONDITION: Required if L002 is used.
SOURCE: Reference Section 6.0 of this IC for code values using applicable Accessorial Services for Rail Shipments, Accessorial Services for Tailored Transportation Contract Traffic Shipments, Accessorial/Protective Service For Air Shipments, Accessorial/Protective Service For Motor Shipments,Bulk Fuel Shipments, Miscellaneous Services, and Pipeline Shipments tables. Common code values associated with multiple definitions prevents documentation of the entire sub-set.
[184-03] Commodity Billed/Rated Quantity Qualifier (DG 400)

BA	Barrels Identifies a billable unit expressed as a type of container [117-03] Barrels [184-03] Barrels
GL	Gallon [117-03] Gallon [184-03] Gallon
LB	Pound [117-03] Pound [184-03] Pound

>>	**L004**	**81**	**Weight**	**X**	**R 1/10**

Numeric value of weight

[117-04] Freight Weight (DG 120)
Freight weight of line item described in pounds only. Freight weight is the weight that line haul rate is based on and may include skid, pallet, and dunnage weights, depending on the applicable tender. Skid, pallet, and dunnage weights are carried in separate MEA segments. Entry may contain a decimal; if not, decimal is assumed at right-most point of the field. See the next occurrence of the MEA segment for the weight breakdown for packing materials. Decimals are not used for ocean shipments.
[124-04] Weight (DG 120)
[125-04] Dimensional Weight (DG 120)
When applicable, dimensional weight shall be calculated using the following formula: Length x Width x Height divided by 194 equals dimensional weight (all measurements in inches).
[149-04] Shipment Gross Weight (DG 200)
The total weight for the shipment. This weight includes the shipment net weight plus the tare weight. Entry may contain a decimal; if not, decimal is assumed at right-most point of the field.
[151-04] Shipment Tare Weight (DG 200)
The actual tare weight of the shipment. Tare weight is the weight of the truck or container. Entry may contain a decimal; if not, decimal is assumed at right-most point of the field.
[153-04] Shipment Net Weight (DG 200)
The net weight of the shipment. Net weight = freight weight + skid weight +

pallet weight + dunnage weight. Entry may contain a decimal; if not, decimal is assumed at right-most point of the field.
[155-04] Shipment Net Explosive Weight (Dry) (DG 200)
Entry may contain a decimal; if not, decimal is assumed at right-most point of the field. If explosive is wet, enter value zero (0) to satisfy X12 syntax.
ELEMENT CONDITION: Enter net explosive weight if explosive is dry.
[158-04] Shipment Net Explosive Weight (Dry) (DG 200)
Use value zero (0) to satisfy X12 syntax.
[161-04] Shipment Dunnage Weight (DG 200)
Entry may contain a decimal; if not, decimal is assumed at right-most point of the field.
[163-04] Shipment Pallet Weight (DG 200)
Entry may contain a decimal; if not, decimal is assumed at right-most point of the field.
[165-04] Shipment Skid Weight (DG 200)
Entry may contain a decimal; if not, decimal is assumed at right-most point of the field.
[167-04] Shipment Freight Weight (DG 200)
Freight weight is the weight that line haul rate is based upon and may include skid, pallet, and dunnage weights, carried in separate MEA segments. The freight weight for all commodities should be accumulated and carried in the data element. Entry may contain a decimal; if not, decimal is assumed at right-most point of the field.
[184-04] Weight (DG 400)
If the commodity freight weight has not been expressed as commodity billed/rated quantity in L002, then it can be expressed here. If the commodity is bulk fuel or another commodity that requires weight in addition to units shipped, carry the commodity's freight weight here and carry the units shipped in L002 and L003. Otherwise, carry all commodity weights in the L002 and L003. Freight weight is the weight that line haul rate is based upon and may include skid, pallet, and dunnage weights, carried in separate MEA segments. Entry may contain a decimal; if not, decimal is assumed at right-most point of the field.

>>	**L005**	**187**	**Weight Qualifier**	**X**	**ID 1/2**

Code defining the type of weight

[117-05] Freight Weight Qualifier (DG 120)
ELEMENT CONDITION: Required if L004 is used.
[124-05] Weight Qualifier (DG 120)
[125-05] Dimensional Weight Qualifier (DG 120)
[149-05] Shipment Gross Weight Qualifier (DG 200)
[151-05] Shipment Tare Weight Qualifier (DG 200)
[153-05] Shipment Net Weight Qualifier (DG 200)
[155-05] Shipment Net Explosive Weight Qualifier (DG 200)
This element is required to satisfy X12 syntax whether explosive is dry or wet.
[158-05] Shipment Net Explosive Weight Qualifier (DG 200)
This element is required to satisfy X12 syntax whether explosive is dry or wet.
[161-05] Shipment Dunnage Weight Qualifier (DG 200)
[163-05] Shipment Pallet Weight Qualifier (DG 200)
[165-05] Shipment Skid Weight Qualifier (DG 200)
[167-05] Shipment Freight Weight Qualifier (DG 200)
[184-05] Weight Qualifier (DG 400)
ELEMENT CONDITION: Required if L004 is used.

A	Consolidated Weight
	[117-05] Consolidated Weight
A1	Dimensional Weight
	[117-05] Dimensional Weight [124-05] Dimensional Weight [125-05] Dimensional Weight
A2	Reweighed By Carrier
	[117-05] Reweighed By Carrier

A3	Shippers Weight
	[117-05] Shippers Weight
A4	Average Weight per Load
	[117-05] Average Weight per Load
B	Billed Weight
	[117-05] Billed Weight
C	Actual Net Repeated for Combination
	[117-05] Actual Net Repeated for Combination
CD	Chargeable Dunnage
	The weight of material used to protect material in transit for which a charge is paid [117-05] Chargeable Dunnage [161-05] Chargeable Dunnage
CE	Certified Weight of Cargo
	[117-05] Certified Weight of Cargo [155-05] Certified Weight of Cargo [158-05] Certified Weight of Cargo
D	Destination Weight Agreement
	[117-05] Destination Weight Agreement
DR	Drained Weight
	[117-05] Drained Weight
E	Estimated Net Weight
	[117-05] Estimated Net Weight
F	Deficit Weight
	[117-05] Deficit Weight
FR	Freight Weight
	[117-05] Freight Weight [124-05] Freight Weight [167-05] Freight Weight [184-05] Freight Weight
G	Gross Weight
	[117-05] Gross Weight [149-05] Gross Weight
H	Weight Per 100 Feet
	[117-05] Weight Per 100 Feet
I	Weight Per 1000 Feet
	[117-05] Weight Per 1000 Feet
J	Light Weight
	[117-05] Light Weight
K	Clean Out
	[117-05] Clean Out
L	Legal Weight
	[117-05] Legal Weight
LC	Maximum Lading Capacity
	[117-05] Maximum Lading Capacity
M	Minimum Weight (for rate)
	[117-05] Minimum Weight (for rate)
N	Actual Net Weight
	[117-05] Actual Net Weight [153-05] Actual Net Weight
ND	Nonchargeable Dunnage
	The weight of material used to protect material in transit for which there is no charge [117-05] Nonchargeable Dunnage

NI	Non-Temporary Storage Weight In
	[117-05] Non-Temporary Storage Weight In
NR	Non-Temporary Storage Weight Re-handled
	[117-05] Non-Temporary Storage Weight Re-handled
NT	Non-Temporary Storage Weight Out
	[117-05] Non-Temporary Storage Weight Out
O	Excess Weight Over Maximum
	[117-05] Excess Weight Over Maximum
P	Weight Per 100 Units
	[117-05] Weight Per 100 Units
PA	Pallet Weight
	[117-05] Pallet Weight [163-05] Pallet Weight
Q	Weight Per 1000 Units
	[117-05] Weight Per 1000 Units
R	Per Unit Dunnage
	[117-05] Per Unit Dunnage
RG	Reweigh Gross Weight
	[117-05] Reweigh Gross Weight
RN	Reweigh Net Weight
	[117-05] Reweigh Net Weight
RT	Reweigh Tare Weight
	[117-05] Reweigh Tare Weight
S	State Weight
	[117-05] State Weight
SF	Storage in Transit Final Weight Out
	[117-05] Storage in Transit Final Weight Out
SI	Storage in Transit Weight in
	[117-05] Storage in Transit Weight in
SK	Skid Weight
	[117-05] Skid Weight [165-05] Skid Weight
SO	Storage in Transit Weight Out
	[117-05] Storage in Transit Weight Out
T	Tare Weight
	[117-05] Tare Weight [151-05] Tare Weight
U	Weight Per Unit
	[117-05] Weight Per Unit
V	Non Transit Weight (On Transit Bills Only)
	[117-05] Non Transit Weight (On Transit Bills Only)
W	Transit Weight (On Transit Bills Only)
	[117-05] Transit Weight (On Transit Bills Only)
WA	Administrative Weight Allowance
	[117-05] Administrative Weight Allowance
WB	Unaccompanied Baggage Weight
	[117-05] Unaccompanied Baggage Weight
WG	Professional Gear Weight
	[117-05] Professional Gear Weight
WJ	Joint Travel Regulation Weight
	[117-05] Joint Travel Regulation Weight

			X	Maximum Weight (for Rate)		
				[117-05] Maximum Weight (for Rate)		
			Y	Theoretical Weight		
				[117-05] Theoretical Weight		
			Z	Mutually Defined		
				[117-05] Mutually Defined		
>>	**L006**	**183**	**Volume**		**X**	**R 1/8**
			Value of volumetric measure			
			[117-06] Cube (DG 120) Cube of line item. [124-06] Cube (DG 120) ELEMENT CONDITION: Required for ocean shipments.			
>>	**L007**	**184**	**Volume Unit Qualifier**		**X**	**ID 1/1**
			Code identifying the volume unit			
			[117-07] Cube Qualifier (DG 120) [124-07] Cube Qualifier (DG 120)			
			E	Cubic Feet		
				[117-07] Cubic Feet [124-07] Cubic Feet		
			G	Gallons		
				[117-07] Gallons		
			H	Hundreds of Measurement Tons		
				[117-07] Hundreds of Measurement Tons		
			S	Measurement Ton		
				[117-07] Measurement Ton		
			V	Liter		
				[117-07] Liter		
			X	Cubic Meters		
				[117-07] Cubic Meters		
>>	**L008**	**80**	**Lading Quantity**		**X**	**N0 1/7**
			Number of units (pieces) of the lading commodity			
			[117-08] Type Pack Quantity (DG 120) Enter the Type Pack Quantity. For ocean shipments, enter number of pieces. [124-08] Number of Pieces (DG 120) ELEMENT CONDITION: Required for ocean shipments.			
>>	**L009**	**211**	**Packaging Form Code**		**X**	**ID 3/3**
			Code for packaging form of the lading quantity			
			[117-09] Type Pack Qualifier (DG 120) Code for packaging form of the lading quantity. SOURCE: Reference Section 6.0 of this IC for code values using the table that contains the applicable type pack qualifier. Common code values associated with multiple definitions prevents documentation of the entire sub-set. [124-09] Packaging Form Code (for number of pieces) (DG 120)			
			PCS	Pieces		
				[124-09] Pieces		

	L010	**458**	**Dunnage Description**	**O**	**AN 2/25**
			Material used to protect lading [117-10] Type Pack Sub Qualifier (DG 120) Material used to protect lading. ELEMENT CONDITION: Use this value to identify specific MSCVAN and SEAVAN configurations. SOURCE: Reference Section 6.0 of this IC for code values using the table that contains the applicable type pack qualifier. Common code values associated with multiple definitions prevents documentation of the entire sub-set. [124-10] Ammunition Lot Number (DG 120) Use leading zero as necessary to provide a minimum of two characters.		
>>	**L011**	**188**	**Weight Unit Code**	**O**	**ID 1/1**
			Code specifying the weight unit [117-11] Freight Weight Unit Code (DG 120) ELEMENT CONDITION: Required if L004 is used. [125-11] Weight Unit Code (DG 120) [149-11] Shipment Gross Weight Unit Qualifier (DG 200) [151-11] Shipment Tare Weight Unit Qualifier (DG 200) [153-11] Shipment Net Weight Unit Qualifier (DG 200) [155-11] Shipment Net Explosive Weight Qualifier (Dry) (DG 200) ELEMENT CONDITION: Use this element only if explosive is dry. [158-11] Shipment Net Explosive Weight Qualifier (Dry) (DG 200) ELEMENT CONDITION: Use this element only if explosive is dry. [161-11] Shipment Dunnage Weight Unit Qualifier (DG 200) [163-11] Shipment Pallet Weight Unit Qualifier (DG 200) [165-11] Shipment Skid Weight Unit Qualifier (DG 200) [167-11] Shipment Freight Weight Unit Qualifier (DG 200) [184-11] Weight Unit Qualifier (DG 400) ELEMENT CONDITION: Required if L004 is used.		
			E — Metric Ton [117-11] Metric Ton [125-11] [149-11] [151-11] [153-11] [155-11] [158-11] [161-11] [163-11] [165-11] [167-11] [184-11]		
			G — Grams [117-11] Grams [125-11] [149-11] [151-11] [153-11] [155-11] [158-11] [161-11] [163-11] [165-11] [167-11] [184-11]		

K	Kilograms
	[117-11] Kilograms [125-11] [149-11] [151-11] [153-11] [155-11] [158-11] [161-11] [163-11] [165-11] [167-11] [184-11]
L	Pounds
	[117-11] Pounds [125-11] [149-11] [151-11] [153-11] [155-11] [158-11] [161-11] [163-11] [165-11] [167-11] [184-11]
M	Measurement Ton
	[117-11] Measurement Ton [125-11] [149-11] [151-11] [153-11] [155-11] [158-11] [161-11] [163-11] [165-11] [167-11] [184-11]
O	Ounces
	[117-11] Ounces [125-11] [149-11] [151-11] [153-11] [155-11] [158-11] [161-11] [163-11] [165-11] [167-11] [184-11]

			S	Short Ton	
				[117-11] Short Ton [125-11] [149-11] [151-11] [153-11] [155-11] [158-11] [161-11] [163-11] [165-11] [167-11] [184-11]	
			T	Long Ton	
				[117-11] Long Ton [125-11] [149-11] [151-11] [153-11] [155-11] [158-11] [161-11] [163-11] [165-11] [167-11] [184-11]	
>>	**L012**	**56**	**Type of Service Code**		**O** **ID 2/2**
			Code specifying extent of transportation service requested		
			[176-12] Type of Service Code (DG 300)		
			AA	New Code Added by IC	
				[176-12] [Migration Code] Airport to Airport	
			DD	Door to Door	
				[176-12] Door to Door	
	L013	**380**	**Quantity**		**X** **R 1/15**
			Numeric value of quantity		
			[117-13] Over-dimensional Pieces, Quantity (DG 120) Used to indicate the number of oversized pieces. If there are multiple over-dimensional items (all the same size), send as one line item and indicate total quantity here. Required for ocean shipments when there is more than one set of oversized dimensions for the same item.		
X	**L014**	**211**	**Packaging Form Code**		**O** **ID 3/3**
			Refer to 004010 Data Element Dictionary for acceptable code values.		
	L015	**1073**	**Yes/No Condition or Response Code**		**X** **ID 1/1**
			Code indicating a Yes or No condition or response		
			[117-15] Oversized Item Indicator (DG 120) ELEMENT CONDITION: Required if L013 is used. Required for ocean shipments when there is more than one set of oversized dimensions for the same item.		
			N	No	
				[117-15] No	
			Y	Yes	
				[117-15] Yes	

Segment: **L1** **Rate and Charges**
Position: 150
Loop: L0 Optional (Must Use)
Level: Detail
Usage: Optional
Max Use: 20
Purpose: To specify rate and charges detail relative to a line item including freight charges, advances, special charges, and entitlements
Syntax Notes:
1 If either L102 or L103 is present, then the other is required.
2 At least one of L104 L105 or L106 is required.
3 If either L114 or L115 is present, then the other is required.
4 If either L117 or L118 is present, then the other is required.
Semantic Notes:
1 L119 is the percent used to determine the charge in L104.
2 L120, if used, indicates the currency for all monetary amounts in this L1 segment.
3 L121 is the origin rated as charge amount.
Comments:
Notes:
[118] L1 SEGMENT - Declared Value of Bill of Lading Line Item (DG 120)
SEGMENT CONDITION: Declared value is required for all shipments that will be processed through a foreign host nation's customs and border clearance program.
[173] L1 SEGMENT - Service Rate (DG 300)
SEGMENT CONDITION: Required if and only if L0 SEGMENT - Service Units is used.
[177] L1 SEGMENT - Air Code (DG 300)
SEGMENT CONDITION: Required for air freight shipments.
[180] L1 SEGMENT - Fuel Surcharge (DG 301)
SEGMENT CONDITION: Required if and only if L0 SEGMENT - Fuel Surcharge Loop Identifier is used.
[185] L1 SEGMENT - Freight Rate (DG 400)
SEGMENT CONDITION: Required if and only if L0 SEGMENT - Commodity Billed/Rated Quantity is used.
[190] L1 SEGMENT - Not Lowest Cost Charge Difference (DG 500)
SEGMENT CONDITION: Required if and only if L0 SEGMENT - Quality Control is used.
[193] L1 SEGMENT - Transportation Working Capital Fund (TWCF) Recovery Fee (DG 600)
SEGMENT CONDITION: Required if and only if L0 SEGMENT - Transportation Working Capital Fund (TWCF) Recovery Fee Loop Identifier is used.

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
X	**L101**	**213**	**Lading Line Item Number**	**O**	**N0 1/3**
	L102	**60**	**Freight Rate**	**X**	**R 1/9**
			Rate that applies to the specific commodity		
			[173-02] Service Rate (DG 300) [180-02] Fuel Surcharge Rate (DG 301) [185-02] Freight Rate (DG 400) Enter freight rate applied to the shipment of the commodity. Entry may contain a decimal; if not, decimal is assumed at right-most point of the field. [193-02] TWCF Recovery Fee Rate (DG 600) ELEMENT CONDITION: Used to pass the TWCF Recovery Fee rate applied per the DFTS contract.		
	L103	**122**	**Rate/Value Qualifier**	**X**	**ID 2/2**
			Code qualifying how to extend charges or interpret value		
			[173-03] Service Rate Qualifier (DG 300) ELEMENT CONDITION: Required if L102 is used. SOURCE: Reference Section 6.0 of this IC for code values using applicable Accessorial Services for Rail Shipments, Accessorial Services for Tailored Transportation Contract Traffic Shipments, Accessorial/Protective Service For		

Air Shipments, Accessorial/Protective Service For Motor Shipments, Bulk Fuel Shipments, Miscellaneous Services, and Pipeline Shipments tables. Common code values associated with multiple definitions prevents documentation of the entire sub-set.
Sample Values: FC,NM,P1,PM,XP
[180-03] Fuel Surcharge Rate Qualifier (DG 301)
[185-03] Freight Rate Qualifier (DG 400)
ELEMENT CONDITION: Required if L102 is used.
SOURCE: Reference Section 6.0 of this IC for code values using applicable Freight Rate Qualifier table. Common code values associated with multiple definitions prevents documentation of the entire sub-set.
Sample Values:
AV,BR,CW,DH,DR,DS,DV,ER,FC,FR,FT,HD,HM,HX,IN,LB,MA,MB,MC,MH,MN,MP,MS,MV,MW,ND,NM,NP,NV,P1,PA,PC,PD,PG,PH,PI,PM,PN,PP,PR,PS,PV,PW,PY,RL,SP,ST,VA,VH,VR,VT,VU,VV,XP
[193-03] TWCF Recovery Fee Qualifier (DG 600)

PM	Per Mile
	[180-03] Per Mile
PS	Per Shipment
	[193-03] Per Shipment
PW	Percentage of Charges
	[180-03] Percentage of Charges
VT	Per Mile per Vehicle
	Describes a rate that applies to the distance a conveying vehicle is used
	[180-03] Per Mile per Vehicle

>>	**L104**	**58**	**Charge**	**X**	**N2 1/12**

For a line item: freight or special charge; for the total invoice: the total charges -- expressed in the standard monetary denomination for the currency specified
[118-04] Charge (DG 120)
Code identifying the type of identification number of Depository Financial Institution (DFI)
[173-04] Service Charge (DG 300)
The charge for an accessorial or protective service. If the shipper does not know the charge, enter '00' in this data element. A two-position decimal is implied in this data.
Sample Values: FC,NM,P1,PM,XP
[177-04] Air Charge (DG 300)
Use value '000'.
[180-04] Fuel Surcharge (DG 301)
The charge allowed for fuel surcharge.
[185-04] Freight Charge (DG 400)
The total line haul charge for the specific commodity described in L503.
Sample Values:
AV,BR,CW,DH,DR,DS,DV,ER,FC,FR,FT,HD,HM,HX,IN,LB,MA,MB,MC,MH,MN,MP,MS,MV,MW,ND,NM,NP,NV,P1,PA,PC,PD,PG,PH,PI,PM,PN,PP,PR,PS,PV,PW,PY,RL,SP,ST,VA,VH,VR,VT,VU,VV,XP
[190-04] Not Lowest Cost Charge Difference (DG 500)
Use value zero (0) if no charge difference is available.
[193-04] TWCF Recovery Fee (DG 600)
The charge allowed for TWCF recovery fee.

00	New Code Added by IC
	[118-04] Use value '00' to meet X12 syntax requirements.

X	**L105**	**191**	**Advances**	**X**	**N2 1/9**
X	**L106**	**117**	**Prepaid Amount**	**X**	**N2 1/9**
X	**L107**	**120**	**Rate Combination Point Code**	**O**	**AN 3/9**

Refer to 004010 Data Element Dictionary for acceptable code values.

>>	**L108**	**150**	**Special Charge or Allowance Code**	**O**	**ID 3/3**

Code identifying type of special charge or allowance

[173-08] Service Identifier Code (DG 300)
Code values apply both to services requested and received.

See Section 6.0 for valid code list.
SOURCE: Reference Section 6.0 of this IC, beginning on page 6.14, for code values using applicable Accessorial Services for Rail Shipments, Accessorial Services for Tailored Transportation Contract Traffic Shipments, Accessorial/Protective Service For Air Shipments, Accessorial/Protective Service For Motor Shipments,Bulk Fuel Shipments, Miscellaneous Services, and Pipeline Shipments tables. Common code values associated with multiple definitions prevents documentation of the entire sub-set.
Sample Values: FC,NM,P1,PM,XP,045,495,500,AAM,AAS
[177-08] Air Code (DG 300)
[180-08] Fuel Surcharge Service Identifier (DG 301)
[193-08] TWCF Recovery Fee Service Identifier (DG 600)

405	Fuel Surcharge
	[180-08] Fuel Surcharge Use '405' to denote Fuel Surcharge for Air and Fuel Adjustment for non-Air
615	Recovery Fee
	[193-08] Recovery Fee Use '615' to denote Transportation Working Capital Fund (TWCF) Recovery Fee
AIR	Air Freight
	[177-08] Air Freight

>>	**L109**	**121**	**Rate Class Code**	**O**	**ID 1/3**

Code identifying specifically designated class of goods; Note: For international air shipments, see IATA Resolution 600k

[185-09] Type of Rate Qualifier (DG 400)
Qualifies the authority (tender/tariff) number identified in the HL Detail - Line Item Description loop, L7 segment.
Sample Values:
AV,BR,CW,DH,DR,DS,DV,ER,FC,FR,FT,HD,HM,HX,IN,LB,MA,MB,MC,MH,MN,MP,MS,MV,MW,ND,NM,NP,NV,P1,PA,PC,PD,PG,PH,PI,PM,PN,PP,PR,PS,PV,PW,PY,RL,SP,ST,VA,VH,VR,VT,VU,VV,XP

A	Alternate Rating
	[185-09] Alternate Rating
C	Specific Commodity Rate
	[185-09] Specific Commodity Rate
I	Class Not Identifiable
	[185-09] Class Not Identifiable
L	Class Rate
	[185-09] Class Rate
QUO	Quoted Rate
	[185-09] Quoted Rate
Y	Exception Rating
	[185-09] Exception Rating

X	**L110**	**39**	**Entitlement Code**	**O**	**ID 1/1**

Refer to 004010 Data Element Dictionary for acceptable code values.

X	**L111**	**16**	**Charge Method of Payment**	**O**	**ID 1/1**

Refer to 004010 Data Element Dictionary for acceptable code values.

	L112	**276**	**Special Charge Description** Identification of special charge; this data element is used whenever an applicable code cannot be found in data element 150 [173-12] Service Description (DG 300) Some accessorial services such as empty movements and stops (including stop-offs, inside pickup and delivery, and objective service supply deliveries) require a Standard Point Location Code (SPLC) to describe where the service was performed. This information is required to determine the charge for the service. SOURCE: Reference Section 6.0 of this IC for code values using applicable Accessorial Services for Rail Shipments, Accessorial Services for Tailored Transportation Contract Traffic Shipments, Accessorial/Protective Service For Air Shipments, Accessorial/Protective Service For Motor Shipments,Bulk Fuel Shipments, Miscellaneous Services, and Pipeline Shipments tables. Common code values associated with multiple definitions prevents documentation of the entire sub-set. Sample Values: FC,NM,P1,PM,XP,045,495,500,AAM,AAS,LTL,TL	**O**	**AN 2/25**
X	**L113**	**257**	**Tariff Application Code** Refer to 004010 Data Element Dictionary for acceptable code values.	**O**	**ID 1/1**
>>	**L114**	**74**	**Declared Value** Monetary assigned value expressed in the standard monetary denomination for the currency specified [118-14] Declared Value (DG 120) Enter the actual value or selling price per TCN (include total bill of lading line item quantity cost). [185-14] Declared Value (DG 400) ELEMENT CONDITION: Required for proper application of rates for certain commodities. Sample Values: AV,BR,CW,DH,DR,DS,DV,ER,FC,FR,FT,HD,HM,HX,IN,LB,MA,MB,MC,MH,MN,MP,MS,MV,MW,ND,NM,NP,NV,P1,PA,PC,PD,PG,PH,PI,PM,PN,PP,PR,PS,PV,PW,PY,RL,SP,ST,VA,VH,VR,VT,VU,VV,XP	**X**	**N2 2/12**
>>	**L115**	**122**	**Rate/Value Qualifier** Code qualifying how to extend charges or interpret value [118-15] Rate/Value Qualifier (DG 120) [185-15] Declared Value Rate Qualifier (DG 400) ELEMENT CONDITION: Required if L114 is used. Sample Values: AV,BR,CW,DH,DR,DS,DV,ER,FC,FR,FT,HD,HM,HX,IN,LB,MA,MB,MC,MH,MN,MP,MS,MV,MW,ND,NM,NP,NV,P1,PA,PC,PD,PG,PH,PI,PM,PN,PP,PR,PS,PV,PW,PY,RL,SP,ST,VA,VH,VR,VT,VU,VV,XP CO — Cost per Unit [118-15] Cost per Unit Use 'CO' to denote Total Cost per TCN LA — Per Pound Per Article [185-15] Per Pound Per Article LB — Per Pound [185-15] Per Pound LV — Per Pound Per Vehicle [185-15] Per Pound Per Vehicle PV — Per Vehicle [185-15] Per Vehicle	**X**	**ID 2/2**

X	**L116**	**372**	**Lading Liability Code**	**O**	**ID 1/1**
			Refer to 004010 Data Element Dictionary for acceptable code values.		
X	**L117**	**220**	**Billed/Rated-as Quantity**	**X**	**R 1/11**
X	**L118**	**221**	**Billed/Rated-as Qualifier**	**X**	**ID 2/2**
			Refer to 004010 Data Element Dictionary for acceptable code values.		
X	**L119**	**954**	**Percent**	**O**	**R 1/10**
X	**L120**	**100**	**Currency Code**	**O**	**ID 3/3**
X	**L121**	**610**	**Amount**	**O**	**N2 1/15**

Segment: **MEA** **Measurements**
Position: 160
Loop: L0 Optional (Must Use)
Level: Detail
Usage: Optional
Max Use: 10
Purpose: To specify physical measurements or counts, including dimensions, tolerances, variances, and weights (See Figures Appendix for example of use of C001)
Syntax Notes:
1 At least one of MEA03 MEA05 MEA06 or MEA08 is required.
2 If MEA05 is present, then MEA04 is required.
3 If MEA06 is present, then MEA04 is required.
4 If MEA07 is present, then at least one of MEA03 MEA05 or MEA06 is required.
5 Only one of MEA08 or MEA03 may be present.
Semantic Notes:
1 MEA04 defines the unit of measure for MEA03, MEA05, and MEA06.
Comments:
1 When citing dimensional tolerances, any measurement requiring a sign (+ or -), or any measurement where a positive (+) value cannot be assumed, use MEA05 as the negative (-) value and MEA06 as the positive (+) value.
Notes:
[119] MEA SEGMENT - Packaging Material Weight (DG 120)
SEGMENT CONDITION: Use to provide weight breakout per type pack per commodity per shipment unit.
[120] MEA SEGMENT - Shipped Dimensions (DG 120)
SEGMENT CONDITION: Required if the shipment is oversize or if air shipment. (GFM needs dimensions to cost air shipment.) All dimensions are required for all 3PL carrier shipments.
[121] MEA SEGMENT - Net Explosive Weight (English) (DG 120)
For OCONUS shipments, NEW facilitates compliance with 1MDGC.
SEGMENT CONDITION: Required for all shipment modes; include if available. English (and metric) units are required to comply with 49 CFR 171.10.
[122] MEA SEGMENT - Net Explosive Quantity (Metric) (DG 120)
For OCONUS shipments, NEW facilitates compliance with 1MDGC.
SEGMENT CONDITION: Required if available. Metric (and English) units are required to comply with 49 CRF 171.10.
[123] MEA SEGMENT - Round Count (DG 120)
SEGMENT CONDITION: Required if shipment contains ammunition.
[156] MEA SEGMENT - Shipment Net Explosive Weight (Wet) (DG 200)
SEGMENT CONDITION: Use this segment only if explosive is wet.
[159] MEA SEGMENT - Shipment Net Explosive Weight (Wet) (DG 200)
SEGMENT CONDITION: Use this segment only if explosive is wet.

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
>>	**MEA01**	**737**	**Measurement Reference ID Code** Code identifying the broad category to which a measurement applies [119-01] Packaging Material Qualifier (DG 120) Weight breakout per type pack per commodity per shipment unit is carried in the MEA segment. For each type of packing material weight breakout, use an individual MEA segment. [120-01] Shipped Dimensions Information Qualifier (DG 120) [121-01] Net Explosive Weight Qualifier (DG 120) [122-01] Net Explosive Quantity Qualifier (DG 120) [123-01] Round Count Qualifier (DG 120) [156-01] Shipment Net Explosive Weight Qualifier (Wet) (DG 200) [159-01] Shipment Net Explosive Weight Qualifier (Wet) (DG 200) CT Counts [123-01] Counts DN Dunnage Dimension [119-01] Dunnage Dimension	**O ID 2/2**

			NX	Net Explosive Weight
				[121-01] Net Explosive Weight [156-01] Net Explosive Weight [159-01] Net Explosive Weight
			PA	Pallet Dimensions
				[119-01] Pallet Dimensions
			SD	Shipped Dimensions
				[120-01] Shipped Dimensions
			SK	Skid Dimensions
				[119-01] Skid Dimensions
			WT	Weights
				[122-01] Weights Use 'WT' to denote Net Explosive Quantity
>>	**MEA02**	**738**	**Measurement Qualifier**	**O ID 1/3**
			Code identifying a specific product or process characteristic to which a measurement applies	
			[119-02] Packaging Material Weight Qualifier (DG 120) [120-02] Shipped Dimensions Qualifier (DG 120) GFM will calculate oversize dimensions from shipper provided information.	
			B	Billed Weight
				[119-02] Billed Weight
			HT	Height
				[120-02] Height
			LN	Length
				[120-02] Length
			WD	Width
				[120-02] Width
>>	**MEA03**	**739**	**Measurement Value**	**X R 1/20**
			The value of the measurement	
			[119-03] Packaging Material Weight (DG 120) The weight for any component of the packaging material (e.g. skid, pallet, dunnage weights). Entry may contain a decimal; if not, decimal is assumed at right-most point of the field. [120-03] Shipped Dimensions Units (DG 120) Use for values of oversize dimensions. [121-03] Net Explosive Weight (DG 120) 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. [122-03] Net Explosive Quantity (DG 120) Entry may contain a decimal; if not, decimal is assumed at right-most point of the field. [123-03] Round Count (DG 120) [156-03] Shipment Net Explosive Weight (Wet) (DG 200) Entry may contain a decimal; if not, decimal is assumed at right-most point of the field. [159-03] Shipment Net Explosive Weight (Wet) (DG 200) Entry may contain a decimal; if not, decimal is assumed at right-most point of the field.	

>>	**MEA04**	**C001**	**Composite Unit of Measure**	**X**	
			To identify a composite unit of measure (See Figures Appendix for examples of use) [119-04] Unit or Basis for Measurement Code (DG 120) 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. [120-04] Unit or Basis for Measurement Code (DG 120) 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. [121-04] Composite Unit of Measurement Code (DG 120) [122-04] Composite Unit of Measurement Code (DG 120) [123-04] Composite Unit of Measurement Code (DG 120) [156-04] Composite Unit of Measure (Wet) (DG 200) 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. [159-04] Composite Unit of Measure (DG 200) 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 [119-04-01] Unit or Basis for Measurement Code (DG 120) By placing code value 'PN' (DE 355 unit qualifier) in the C00101, you are satisfying X12 syntax requirements for the composite data element. [120-04-01] English Measurement Code (DG 120) By placing code value 'FT' or 'IN' (DE 355 unit qualifier) in the C00101, you are satisfying X12 syntax requirements for the composite data element. [121-04-01] Net Explosive Weight Qualifier (English) (DG 120) Both metric and English units are required to comply with 49 CFR 171.10. By placing these code values (DE 355 unit qualifier) in the C00101, you are satisfying X12 syntax requirements for the composite data element. Use 'GA' if explosive is wet. Use 'PN' if explosive is dry. [122-04-01] Net Explosive Quantity Qualifier (Metric) (DG 120) By placing these code values (DE 355 unit qualifier) in the C00101, you are satisfying X12 syntax requirements for the composite data element. Use 'KG' if explosive is dry. Use 'LT' if explosive is wet. [123-04-01] Round Count Qualifier (DG 120) By placing code value 'RO' (DE 355 unit qualifier) in the C00101, you are satisfying X12 syntax requirements for the composite data element. [156-04-01] Shipment Net Explosive Weight Qualifier (Wet) (DG 200) By placing code value 'GA' (DE 355 unit qualifier) in the C00101, you are satisfying X12 syntax requirements for the composite data element. [159-04-01] Shipment Net Explosive Weight Qualifier (Wet) (DG 200) By placing code value 'LT' (DE 355 unit qualifier) in the C00101, you are satisfying X12 syntax requirements for the composite data element.		
			FT — Foot [120-04-01] Foot		
			GA — Gallon [121-04-01] Gallon [156-04-01] Gallon		
			IN — Inch [120-04-01] Inch		

			KG Kilogram [122-04-01] Kilogram LT Liter [122-04-01] Liter [159-04-01] Liter PN Pounds Net [119-04-01] Pounds Net [121-04-01] Pounds Net RO Round [123-04-01] Round		
	C00102	**1018**	**Exponent** Power to which a unit is raised	**O**	**R 1/15**
	C00103	**649**	**Multiplier** Value to be used as a multiplier to obtain a new value	**O**	**R 1/10**
	C00104	**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**
	C00105	**1018**	**Exponent** Power to which a unit is raised	**O**	**R 1/15**
	C00106	**649**	**Multiplier** Value to be used as a multiplier to obtain a new value	**O**	**R 1/10**
	C00107	**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**
	C00108	**1018**	**Exponent** Power to which a unit is raised	**O**	**R 1/15**
	C00109	**649**	**Multiplier** Value to be used as a multiplier to obtain a new value	**O**	**R 1/10**
	C00110	**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**
	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: **LH1** **Hazardous Identification Information**
Position: 170
Loop: LH1 Optional
Level: Detail
Usage: Optional
Max Use: 1
Purpose: To specify the hazardous commodity identification reference number and quantity
Syntax Notes:
Semantic Notes:
Comments:
1 LH101 and LH102 are used to convey the number and type of packages for bulk and nonbulk movements.
2 LH106 and LH107 are used to convey the quantity or volume and unit of measure for nonbulk shipments only.
3 In LH109, a value of "R" or "P" requires that the receiver generate the words "residue: last contained" prior to the shipping name in accordance with regulations.

Notes:
[126] LH1 SEGMENT - HAZMAT Quantities (DG 190)
LOOP CONDITION: DG 190 required if the shipment contains hazardous material and/or the Defense Transportation Tracking System (DTTS) is required.
[186] LH1 SEGMENT - HAZMAT Quantities (DG 400)
LOOP CONDITION: Use this segment if the commodity is hazardous material.

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
M	**LH101**	**355**	**Unit or Basis for Measurement Code** Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken [126-01] HAZMAT - Unit Of Measure Code (DG 190) Contains the code identifying the Unit of Measure (type of packaging) for which the data in LH102 is reported. Use LH106 to express weight and volume. SOURCE: Reference Section 6.0 of this IC for code values using applicable tables. Common code values associated with multiple definitions prevents documentation of the entire sub-set. Sample Values: BA,BD,BG,BX,CH [186-01] HAZMAT - Unit Of Measure Code (DG 400) Use 'ZZ' in this data element and zero (0) in LH102 to indicate commodity requires a HAZMAT indicator. ZZ Mutually Defined [186-01] Mutually Defined	**M**	**ID 2/2**
M	**LH102**	**80**	**Lading Quantity** Number of units (pieces) of the lading commodity [126-02] HAZMAT - Lading Quantity (DG 190) Contains the number of units (pieces) of the lading commodity that is Hazardous. SOURCE: 49 CFR 172.202(c) Sample Values: BA,BD,BG,BX,CH [186-02] HAZMAT - Lading Quantity (DG 400) Use the value zero (0).	**M**	**N0 1/7**
>>	**LH103**	**277**	**UN/NA Identification Code** Code identifying the hazardous material identification number as required by Title 49 of the code of Federal Regulations; UN/NA stands for United Nations/North America [126-03] HAZMAT - UN/NA ID Code (DG 190) SOURCE: Hazardous Materials Regulations of the Department of Transportation by Air, Rail, Highway, and Water available from Association of American Railroads Publications Sample Values: BA,BD,BG,BX,CH	**O**	**ID 6/6**
X	**LH104**	**200**	**Hazardous Materials Page**	**O**	**AN 1/6**

X	**LH105**	**22**	**Commodity Code**	**O**	**AN 1/30**
	LH106	**355**	**Unit or Basis for Measurement Code**	**O**	**ID 2/2**

Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken

[126-06] HAZMAT - English Measurement Code (DG 190)
Use the unit of measure codes for quantity or volume of non bulk shipments. This will typically be pounds, cubic feet, or a unit of measure other than pieces. If the weight of the hazardous material is measured in other than the above listed Weight Units of Measure, refer to X12 Standard, DE 355. Use LH101 to express type of packaging.
ELEMENT CONDITION: Required if LH107 is used. At least one LH106/LH107 or LFH05/LFH06 are required to pass the HAZMAT unit of measure and quantity. If an English and Metric unit of measure are available, both are required.
Sample Values: BA,BD,BG,BX,CH

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 [126-06] 20 Foot Container
2R	Kilocurie Unit of radiation [126-06] Kilocurie
4D	Curie A unit of radioactivity equal to 3.7 * 10/10 disintegrations per second [126-06] Curie
BR	Barrel [126-06] Barrel
CW	Hundred Pounds (CWT) [126-06] Hundred Pounds (CWT)
D2	Shares [126-06] Shares
FO	Fluid Ounce [126-06] Fluid Ounce
G2	U.S. Gallons Per Minute Rate of flow [126-06] U.S. Gallons Per Minute
GA	Gallon [126-06] Gallon
LB	Pound [126-06] Pound
LG	Long Ton 2240 pounds as used in the U.K. [126-06] Long Ton
M0	Magnetic Tapes Number of Magnetic Tapes delivered with data [126-06] Magnetic Tapes
M5	Microcurie [126-06] Microcurie
MU	Millicurie [126-06] Millicurie

			NS	Short Ton Two thousand pounds [126-06] Short Ton	
			OZ	Ounce - Av [126-06] Ounce - Av	
			PN	Pounds Net [126-06] Pounds Net	
			PS	Pounds per Sq. Inch [126-06] Pounds per Sq. Inch	
			PT	Pint [126-06] Pint	
			Q2	Pint U.S. Dry Volume equal to 33.6003125 cubic inches [126-06] Pint U.S. Dry	
			QT	Quart [126-06] Quart	
	LH107	**380**	**Quantity**	**O**	**R 1/15**
			Numeric value of quantity [126-07] HAZMAT - Quantity (DG 190) Quantity refers to the amount (i.e., weight in pounds, volume in cubic feet, or other such measurement) of the hazardous material commodity that is to be transported. Sample Values: BA,BD,BG,BX,CH		
X	**LH108**	**595**	**Compartment ID Code**	**O**	**ID 1/1**
			Refer to 004010 Data Element Dictionary for acceptable code values.		
	LH109	**665**	**Residue Indicator Code**	**O**	**ID 1/1**
			Code indicating that the material being described is that which remains in a packaging (including a tank car) after it has been unloaded [126-09] HAZMAT - Residue Indicator Code (DG 190) Code indicating that the material being described is that which remains in a packaging (including a tank car) after it has been unloaded. Use code value 'R' to indicate that the unit being shipped is empty and contains a residue from a prior movement. SOURCE: 49 CFR 172.203(e) Sample Values: BA,BD,BG,BX,CH		
			R	Residue Last Contained Description (Tank Car) [126-09] Residue Last Contained Description (Tank Car)	
	LH110	**254**	**Packing Group Code**	**O**	**ID 1/3**
			Code indicating degree of danger in terms of Roman number I, II or III [126-10] HAZMAT - Packing Group Code (DG 190) Indicate the required packing group using Roman Numeral I, II, or III to indicate the degree of danger. SOURCE: 49 CFR, Table 172.101 Sample Values: BA,BD,BG,BX,CH		
X	**LH111**	**1375**	**Interim Hazardous Material Regulatory Number**	**O**	**AN 1/5**

Segment: **LH2** **Hazardous Classification Information**
Position: 180
Loop: LH1 Optional
Level: Detail
Usage: Optional
Max Use: 4
Purpose: To specify the hazardous notation and endorsement information
Syntax Notes:
1 If either LH206 or LH207 is present, then the other is required.
2 If either LH208 or LH209 is present, then the other is required.
3 If either LH210 or LH211 is present, then the other is required.
Semantic Notes:
1 LH206 and LH207 indicate the flashpoint temperature.
2 LH208 and LH209 indicate the control temperature.
3 LH210 and LH211 indicate the emergency temperature.
Comments:
Notes: [127] LH2 SEGMENT - HAZMAT Classification (DG 190)
SEGMENT CONDITION: Required for loaded and unloaded HAZMAT shipments.

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
>>	**LH201**	**215**	**Hazardous Classification** The hazardous classification corresponding to the shipping name of the hazardous commodity [127-01] HAZMAT - Hazardous Class/Division (DG 190) Identify the hazard class or division prescribed for the material as shown in column 3 of 49 CFR Table 172.101. If there is no hazard class or division, use the code in that column, such as ORM-D (Other Regulated Material), reference 49 CFR 173.2. If there is a subsidiary hazard but no hazard class or division, use code value 'NA'. A material for which the entry in this column is 'Forbidden' may not be offered for transportation nor be transported. This segment needs to be repeated for each subsidiary hazard. SOURCE: 49 CFR 172.101;49 CFR 173.2	**O**	**ID 1/30**
>>	**LH202**	**983**	**Hazardous Class Qualifier** Code qualifying hazardous class [127-02] HAZMAT - Hazard Class Qualifier (DG 190) Repeat the LH2 segment as necessary to identify the primary and each subsidiary (secondary) hazard of the material being shipped. P Primary [127-02] Primary S Secondary [127-02] Secondary	**O**	**ID 1/1**
X	**LH203**	**218**	**Hazardous Placard Notation**	**O**	**ID 14/40**
X	**LH204**	**222**	**Hazardous Endorsement**	**O**	**ID 4/25**
	LH205	**759**	**Reportable Quantity Code** Code to identify presence of hazardous substance [127-05] HAZMAT - Reportable Quantity (DG 190) For empty packagings or units containing the residue of a hazardous material. ELEMENT CONDITION: Required if necessary to indicate a reportable quantity is present in the shipment. SOURCE: 49 CFR 172.203(e) RQ Reportable Quantity [127-05] Reportable Quantity	**O**	**ID 2/2**

	LH206	**355**	**Unit or Basis for Measurement Code**	**X**	**ID 2/2**
			Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken		
			[127-06] HAZMAT Flashpoint Temperature Code (DG 190) ELEMENT CONDITION: Required if LH207 is used.		
			CE — Centigrade, Celsius [127-06] Centigrade, Celsius Use 'CE' to denote Centigrade		
			FA — Fahrenheit [127-06] Fahrenheit		
	LH207	**408**	**Temperature**	**X**	**R 1/4**
			Temperature		
			[127-07] HAZMAT Flashpoint Temperature (DG 190)		
X	**LH208**	**355**	**Unit or Basis for Measurement Code**	**X**	**ID 2/2**
			Refer to 004010 Data Element Dictionary for acceptable code values.		
X	**LH209**	**408**	**Temperature**	**X**	**R 1/4**
X	**LH210**	**355**	**Unit or Basis for Measurement Code**	**X**	**ID 2/2**
			Refer to 004010 Data Element Dictionary for acceptable code values.		
X	**LH211**	**408**	**Temperature**	**X**	**R 1/4**

Segment: **LH3** **Hazardous Material Shipping Name**
Position: 190
Loop: LH1 Optional
Level: Detail
Usage: Optional
Max Use: 12
Purpose: To specify the hazardous material shipping name and additional descriptive requirements
Syntax Notes: **1** If either LH301 or LH302 is present, then the other is required.
Semantic Notes: **1** If LH304 is "Y", then this is an Association of American Railroads Operations and Transportation Bulletin 55 commodity. If "N", it is not an Association of American Railroads Operations and Transportation Bulletin 55 commodity.
Comments:
Notes: [128] LH3 SEGMENT - HAZMAT Names (DG 190)
SEGMENT CONDITION: Required for empty/unloaded HAZMAT shipments; this segment should contain the last contents shipping name.

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
>>	**LH301**	**224**	**Hazardous Material Shipping Name** The proper shipping name of the hazardous commodity as specified by the Code of Federal Regulations, Title 49 [128-01] HAZMAT - Proper Shipping Name (DG 190) MANDATORY for all hazardous material shipments including ammunition and explosives. Create additional LH301 segment(s) for remainder of Proper Shipping Name exceeding 25 characters. SOURCE: 49 CFR 172.101; 49 CFR 172.202	**X AN 1/25**
>>	**LH302**	**984**	**Hazardous Material Shipping Name Qualifier** Qualifier indicating the source (regulatory) of the proper shipping name [128-02] HAZMAT - Proper Shipping Name Qualifier (DG 190) C Canadian Shipping Name [128-02] Canadian Shipping Name D Domestic (United States) Shipping Name [128-02] Domestic (United States) Shipping Name I International Shipping Name [128-02] International Shipping Name	**X ID 1/1**
	LH303	**985**	**N.O.S. Indicator Code** Code indicating the type of regulatory requirements that apply to a description; N.O.S. stands for Not Otherwise Specified [128-03] HAZMAT - N.O.S. Indicator Code (DG 190) If this field is used, an LFH segment must follow using code value 'TEC' in LFH01. NOS N.O.S. Regulatory Requirements Apply [128-03] N.O.S. Regulatory Requirements Apply	**O ID 3/3**
X	**LH304**	**1073**	**Yes/No Condition or Response Code** Refer to 004010 Data Element Dictionary for acceptable code values.	**O ID 1/1**

Segment: **LFH** **Freeform Hazardous Material Information**
Position: 191
Loop: LH1 Optional
Level: Detail
Usage: Optional
Max Use: 20
Purpose: To uniquely identify the variable information required by government regulation covering the transportation of hazardous material shipments
Syntax Notes: **1** If either LFH05 or LFH06 is present, then the other is required.
Semantic Notes: **1** LFH06 indicates activity of the radioactive material.
2 LFH07 indicates transport index of the radioactive material.
Comments:
Notes: [129] LFH SEGMENT - HAZMAT Remarks (DG 190)
SEGMENT CONDITION: Required for HAZMAT shipments requiring specific labeling.
[130] LFH SEGMENT - Round Count (DG 190)
SEGMENT CONDITION: Required for TC-AIMS II moves only.
[131] LFH SEGMENT - HAZMAT Metric Weight (DG 190)
SEGMENT CONDITION: Required if LH107 is used. Use along with LH106 for HAZMAT explosive materials.
[132] LFH SEGMENT - Net Explosive Weight (English) (DG 190)
SEGMENT CONDITION: Required for TC-AIMS II moves only.
[133] LFH SEGMENT - Net Explosive Weight (Metric) (DG 190)
SEGMENT CONDITION: Required for TC-AIMS II moves only.

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
M	**LFH01**	**808**	**Hazardous Material Shipment Information Qualifier** Qualifier indicating the type of information being passed so that a receiver may format a description of hazardous commodity movements that meets regulatory requirements [129-01] HAZMAT - Additional Basic Description Information Qualifier (DG 190) Contains the hazardous material shipment information qualifier indicating the type of information being passed. MANDATORY for all explosives unless otherwise noted in 49 CFR 172.320. Use interim EX-number for explosives waiting for final classification.If the X12 code definition accompanying a LFH01 code value contains text in quotations, place the part in quotations in LFH02. If the code definition contains no quotations, see the user note in LFH02 for further guidance. Use code value 'ADI' to denote 'Other information not accounted for in the code list'. Use code value 'TEC' in this data element to indicate that the N.O.S. indicator is specified in LH303. Enter additional information that must appear in association with the shipment's basic description according to 49 CFR. Use additional occurrences of LFH segment as necessary for each code that applies to shipment. SOURCE: 49 CFR [130-01] HAZMAT- Information Qualifier (DG 190) Use code value 'ADI' to satisfy X12 syntax requirements. [131-01] HAZMAT- Information Qualifier (DG 190) Use code value 'ADI' to satisfy X12 syntax requirements. [132-01] HAZMAT - Information Qualifier (DG 190) Use code value 'ADI' to satisfy X12 syntax requirements. [133-01] HAZMAT - Shipment Information Qualifier (DG 190) Use code value 'ADI' to satisfy X12 syntax requirements.	**M ID 3/3**

ADI	Additional Descriptive Information Not Required by Regulation but Desired to Accompany the Movement by the Shipper
	[129-01] Additional Descriptive Information Not Required by Regulation but Desired to Accompany the Movement by the Shipper [130-01] Additional Descriptive Information Not Required by Regulation but Desired to Accompany the Movement by the Shipper [131-01] Additional Descriptive Information Not Required by Regulation but Desired to Accompany the Movement by the Shipper [132-01] [133-01] Additional Descriptive Information Not Required by Regulation but Desired to Accompany the Movement by the Shipper
CAO	Cargo Airlift Only
	[132-01] Cargo Airlift Only
D13	"DOT - 113, Do Not Bump or Cut Off Car While in Motion" Declaration
	[132-01] "DOT - 113, Do Not Bump or Cut Off Car While in Motion" Declaration
DRC	Damaged Car Number
	[132-01] Damaged Car Number
DWW	"Dangerous When Wet" Declaration
	[129-01] "Dangerous When Wet" Declaration [132-01]
EMS	Emergency Schedule (EMS) Page Number
	[132-01] Emergency Schedule (EMS) Page Number
HOT	Identifies Products in a Heated Molten State
	[129-01] Identifies Products in a Heated Molten State [132-01]
HZC	Hazardous Substance Constituents
	[129-01] Hazardous Substance Constituents [132-01]
INH	Inhalation Hazard
	[132-01] Inhalation Hazard
LQY	"Limited Quantity" Declaration
	[129-01] "Limited Quantity" Declaration [132-01]
MFA	Medical First Aid Guide (MFAG) Page Number
	[132-01] Medical First Aid Guide (MFAG) Page Number
MOS	Maximum Operating Speed
	[129-01] Maximum Operating Speed [132-01]
MPI	Marine Pollutant
	[129-01] Marine Pollutant [132-01]
PIH	"Poison - Inhalation Hazard" Declaration
	[129-01] "Poison - Inhalation Hazard" Declaration [132-01]
POI	"Poison" Declaration
	[129-01] Poison Declaration Use 'POI' to denote "Poison" Declaration [132-01]

			RAM	Radioactive Material Data	
				[129-01] Radioactive Material Data [132-01]	
			TEC	Technical or Chemical Group Name	
				[129-01] Technical or Chemical Group Name [132-01]	
			TNM	Trade Name	
				[132-01] Trade Name	
			WST	Waste Declaration	
				[132-01] Waste Declaration	
M	**LFH02**	**809**	**Hazardous Material Shipment Information**	**M**	**AN 1/25**
			Specific information required by law for hazardous material shipments		
			[129-02] HAZMAT - Additional Basic Description Information (DG 190) Contains specific information about the hazardous material shipment. When applicable, use the descriptive narrative from LFH01. If LFH01 = 'ADI', use this element for any overflow information from LFH01 or 49 CFR except Proper Shipping Name. Use LFH03 for additional overflow. If LFH01 = 'PIH', enter 'Poisonous - Inhalation Hazard, Zone X', where X is the code designated in LFH04. If LFH01 = 'HOT', enter 'HOT' [See 49 CFR 172.203(n)]. If LFH01 = 'RAM', enter the appropriate text in quotes as specified by 49 CFR 172.203(d). If LFH01 = 'LQY', enter 'Ltd Qty' or 'Limited Quantity'. If LFH01 = 'HZC', enter 'Hazardous substance constituents.' If LFH01 = 'MOS', enter 'Maximum operating speed.' If LFH01 = 'MPI', enter 'Marine Pollutant.' For N.O.S. code (LFH01 = 'TEC'), enter the technical or chemical group name in parentheses. Place overflow in LFH03. Do not close parentheses until end of description is reached. [130-02] HAZMAT- Round Count Identifier (DG 190) Specific information required by law for hazardous material shipments. Enter value 'CT' to indicate segment contains HAZMAT Round Count Information. [131-02] HAZMAT- Shipment Information (DG 190) Specific information required by law for hazardous material shipments. Enter value 'WT' to indicate segment contains HAZMAT Metric Weight Information. [132-02] HAZMAT - Shipment Information (DG 190) Specific information required by law for hazardous material shipments. Enter value 'NX' to indicate segment contains HAZMAT English Weight Information. [133-02] HAZMAT - Shipment Information (DG 190) Enter value 'NW' to indicate segment contains HAZMAT Metric Net Weight Information.		
			CT	New Code Added by IC	
				[130-02]	
			NW	New Code Added by IC	
				[133-02]	
			NX	New Code Added by IC	
				[132-02]	
			WT	New Code Added by IC	
				[131-02]	
	LFH03	**809**	**Hazardous Material Shipment Information**	**O**	**AN 1/25**
			Specific information required by law for hazardous material shipments		
			[129-03] HAZMAT - Additional Information (DG 190) Use for description overflow from LFH02. Use LFH01, 02, and 03 as a set and repeat loop as necessary to convey all additional basic description information.		

	LFH04	**1023**	**Hazard Zone Code**	**O**	**ID 1/1**

Code specifying the Department of Transportation assigned zone designating the Inhalation Toxicity Hazard Zone

[129-04] HAZMAT - Hazard Zone Code (DG 190)
Contains the code specifying the Department of Transportation assigned zone designating the Inhalation Toxicity Hazard Zone.
ELEMENT CONDITION: Use applicable Hazard Zone Code when LFH01 = PIH.

A	Hazard Zone A
	[129-04] Hazard Zone A
B	Hazard Zone B
	[129-04] Hazard Zone B
C	Hazard Zone C
	[129-04] Hazard Zone C
D	Hazard Zone D
	[129-04] Hazard Zone D

>>	**LFH05**	**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

[130-05] HAZMAT- Round Count Qualifier (DG 190)
[131-05] HAZMAT- Metric Measurement Code (DG 190)
[132-05] HAZMAT - English Net Explosive Weight Code (DG 190)
[133-05] HAZMAT - Metric Net Explosive Weight Code (DG 190)

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
	[131-05] Roentgen
2Q	Kilobecquerel
	Unit of radiation
	[131-05] Kilobecquerel
2Y	Milliroentgen
	Unit of radiation
	[131-05] Milliroentgen
40	Milliliter per Second
	Represents rate of absorbency
	[131-05] Milliliter per Second
4N	Megabecquerel
	Unit of radiation
	[131-05] Megabecquerel
GA	Gallon
	[132-05] Gallon
GM	Grams per Sq. Meter
	[131-05] Grams per Sq. Meter
GR	Gram
	[131-05] Gram
H4	Hectoliter
	Metric measure for 100 liters
	[131-05] Hectoliter

HG	Hectogram	
	[131-05] Hectogram	
KG	Kilogram	
	[131-05] Kilogram [133-05] Kilogram	
KR	Kiloroentgen	
	Measure of radiation	
	[131-05] Kiloroentgen	
LT	Liter	
	[131-05] Liter [133-05] Liter	
MC	Microgram	
	[131-05] Microgram	
ME	Milligram	
	[131-05] Milligram	
MG	Metric Gross Ton	
	[131-05] Metric Gross Ton	
ML	Milliliter	
	[131-05] Milliliter	
MP	Metric Ton	
	[131-05] Metric Ton	
PN	Pounds Net	
	[132-05] Pounds Net	
R2	Becquerel	
	Unit of radiation equal to 3.7 * 10/10 of a curie	
	[131-05] Becquerel	
RO	Round	
	[130-05] Round	

>>	**LFH06**	**380**	**Quantity**	**X**	**R 1/15**
			Numeric value of quantity [130-06] HAZMAT- Round Count (DG 190) [131-06] HAZMAT- Metric Quantity (DG 190) Use the unit of measure codes for quantity or volume of non bulk shipments. This will typically be grams, cubic meters, or a unit of measure other than pieces. If the weight of the hazardous material is measured in other than the above listed Weight Units of Measure, refer to X12 Standard, DE 355. Use LH101 to express type of packaging. ELEMENT CONDITION: Required if LFH05 is used. At least one LH106/LH107 or LFH05/LFH06 are required to pass the HAZMAT unit of measure and quantity. If an English and Metric unit of measure are available, both are required. [132-06] HAZMAT - English Net Explosive Weight (DG 190) [133-06] HAZMAT - Metric Net Explosive Weight (DG 190)		
X	**LFH07**	**380**	**Quantity**	**O**	**R 1/15**

Segment: **LHR** **Hazardous Material Identifying Reference Numbers**
Position: 210
Loop: LH1 Optional
Level: Detail
Usage: Optional
Max Use: 10
Purpose: To transmit specific hazardous material reference numbers
Syntax Notes:
Semantic Notes:
Comments:
Notes: [134] LHR SEGMENT - DOT Explosive Approval Number (EX-number) (DG 190)
SEGMENT CONDITION: Required for shipment of explosive materials.
[135] LHR SEGMENT - Competent Authority Approval Number (DG 190)
SEGMENT CONDITION: Use if competent authority approval is required.
[136] LHR SEGMENT - DOT Exemption Number (DG 190)
SEGMENT CONDITION: Required when DOT exemption applies.
[137] LHR SEGMENT - Int'l Maritime Dangerous Goods Code (DG 190)
SEGMENT CONDITION: Use this segment if the hazardous shipment requires international regulation.
[138] LHR SEGMENT - DoDIC (DG 190)
SEGMENT CONDITION: Required for TC-AIMS II moves only.
[139] LHR SEGMENT - National Stock Number (NSN) (DG 190)
SEGMENT CONDITION: Required for TC-AIMS II moves only.

Data Element Summary

	Ref. Des.	Data Element	Name		Attributes
M	**LHR01**	**128**	**Reference Identification Qualifier**		**M ID 2/3**
			Code qualifying the Reference Identification		
			[134-01] HAZMAT - DOT Explosive Approval Number Qualifier (DG 190) [135-01] Competent Authority Approval Number Qualifier (DG 190) [136-01] DOT Exemption (DOT-E) Number Qualifier (DG 190) [137-01] HAZMAT - Int'l Maritime Dangerous Goods Code (IMDG) Qualifier (DG 190) [138-01] DoDIC Qualifier (DG 190) Use '1I' for shipments by other than ocean. Use '6P' only for ocean shipments. [139-01] HAZMAT - NSN Qualifier (DG 190)		
			1I	Department of Defense Identification Code (DoDIC)	
				Qualifies a code that uniquely identifies a type of explosive or ammunition	
				[138-01] Department of Defense Identification Code (DoDIC)	
			6P	Group Number	
				[138-01] Group Number	
			HA	Competent Authority	
				[135-01] Competent Authority	
			HD	Department of Transportation Hazardous Number	
				[134-01] Department of Transportation Hazardous Number	
			HE	Hazardous Exemption Number	
				[136-01] Hazardous Exemption Number	
			IM	Intergovernmental Maritime Organization (IMO) Number	
				[137-01] Intergovernmental Maritime Organization (IMO) Number	
			NS	National Stock Number	
				[139-01] National Stock Number	

M	**LHR02**	**127**	**Reference Identification** Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier [134-02] HAZMAT - DOT Explosive Approval Number (EX-number) (DG 190) Product codes and national stock numbers must be traceable to the specific EX-number (also referred to as hazard classification approval number) assigned by the Associate Administrator for Hazardous Materials Safety. SOURCE: 49 CFR 172.320 and 173.56(b) [135-02] Competent Authority Approval Number (DG 190) Issued by Department of Transportation, approval number is CA-YYNNNNA, where Y = year, N = approval number within that year, and A is an optional alphanumeric designator. Only applicable when DoD requires an exception to the international performance oriented packaging rules. [136-02] DOT Exemption (DOT-E) Number (DG 190) Identifies the DOT Exemption to any of the 49 CFR Regulations for hazardous materials. Normally used only for domestic shipments. Can be used for international shipments but is not guaranteed to be accepted by international customs. SOURCE: 49 CFR 172.2(a) [137-02] HAZMAT - Int'l Maritime Dangerous Goods Code (IMDG) (DG 190) [138-02] DoDIC (DG 190) [139-02] HAZMAT - NSN (DG 190)	**M**	**AN 1/30**
X	**LHR03**	**373**	**Date**	**O**	**DT 8/8**

Segment: **FA1** **Type of Financial Accounting Data**
Position: 230
Loop: FA1 Optional
Level: Detail
Usage: Optional
Max Use: 1
Purpose: To specify the organization controlling the content of the accounting citation, and the purpose associated with the accounting citation
Syntax Notes:
Semantic Notes:
1 FA101 Identifies the organization controlling the assignment of financial accounting information.
2 FA102 Identifies the purpose of the accounting allowance or charge information.
Comments:
Notes: [140] FA1 SEGMENT - TCN Appropriation Number Loop (DG 190)
If there is only one Transportation Accounting Code or Line of Accounting at the header level, then it applies to all shipments in that container. If there is TAC/LOA at the header level, and some of the line items in the container have their own TACs/LOAs and some do not, use the TACs/LOAs at the line item level for those specific shipments and default to the header TAC/LOA for all others. If there is an invalid TAC/LOA on a single line item we will use the header TAC/LOA. If there is only one Transportation Accounting Code or Line of Accounting at the header level, then it applies to all shipments in that container. If there is TAC/LOA at the header level, and some of the line items in the container have their own TACs/LOAs and some do not, use the TACs/LOAs at the line item level for those specific shipments and default to the header TAC/LOA for all others. If there is an invalid TAC/LOA on a single line item we will use the header TAC/LOA. LOOP CONDITION: Use for appropriation assignment. Carriers do not need to receive appropriation data. This segment begins the appropriation number loop. It calls for both FA1 and FA2 segments. Shipper systems that are capable of receiving, storing, and sending structured DoD appropriation numbers may use this loop to exchange those numbers with trading partners.

Data Element Summary

	Ref. Des.	Data Element	Name		Attributes	
M	**FA101**	**559**	**Agency Qualifier Code**		**M**	**ID 2/2**
			Code identifying the agency assigning the code values			
			[140-01] Agency Qualifier Code (DG 190) Code identifying the agency assigning the code values.			
			DF	Department of Defense (DoD)		
				[140-01] Department of Defense (DoD)		
			DN	Department of the Navy		
				[140-01] Department of the Navy		
			DX	United States Marine Corps		
				[140-01] United States Marine Corps		
			DY	Department of Air Force		
				[140-01] Department of Air Force		
			DZ	Department of Army		
				[140-01] Department of Army		
			HS	Department of Health and Human Services		
				[140-01] Department of Health and Human Services Use 'HS' to denote Department of Homeland Security/US Coast Guard (DHS/USCG)		
X	**FA102**	**1300**	**Service, Promotion, Allowance, or Charge Code**		**O**	**ID 4/4**
X	**FA103**	**248**	**Allowance or Charge Indicator**		**O**	**ID 1/1**
			Refer to 004010 Data Element Dictionary for acceptable code values.			

Segment: **FA2** **Accounting Data**
Position: 240
Loop: FA1 Optional
Level: Detail
Usage: Mandatory
Max Use: >1
Purpose: To specify the detailed accounting data
Syntax Notes:
Semantic Notes:
Comments:
Notes: [141] FA2 SEGMENT - TCN Appropriation Elements (DG 190)
SEGMENT CONDITION: This segment is MANDATORY if and only if the FA1 SEGMENT - TCN Appropriation Number Loop segment is used. Otherwise, this segment may not be used.

Data Element Summary

	Ref. Des.	Data Element	Name		Attributes
M	**FA201**	**1196**	**Breakdown Structure Detail Code**		**M ID 2/2**
			Codes identifying details relating to a reporting breakdown structure tree		
			[141-01] Breakdown Structure Detail Code (DG 190)		
			84	Total Direct Costs	
				[141-01] Total Direct Costs	
			A1	Department Indicator	
				[141-01] Department Indicator	
			A2	Transfer from Department	
				[141-01] Transfer from Department	
			A3	Fiscal Year Indicator	
				[141-01] Fiscal Year Indicator	
			A4	Basic Symbol Number	
				[141-01] Basic Symbol Number	
			A5	Sub-class	
				[141-01] Sub-class	
			A6	Sub-Account Symbol	
				[141-01] Sub-Account Symbol	
			AT	Air Force Transportation Account Code (ATAC)	
				[141-01] Air Force Transportation Account Code (ATAC)	
			B1	Budget Activity Number	
				[141-01] Budget Activity Number	
			B2	Budget Sub-activity Number	
				[141-01] Budget Sub-activity Number	
			B3	Budget Program Activity	
				[141-01] Budget Program Activity	
			C1	Program Element	
				[141-01] Program Element	
			C2	Project Task or Budget Subline	
				[141-01] Project Task or Budget Subline	
			D1	Defense Agency Allocation Recipient	
				[141-01] Defense Agency Allocation Recipient	
			D4	Component Sub-allocation Recipient	
				[141-01] Component Sub-allocation Recipient	

			D6	Sub-allotment Recipient	
				[141-01] Sub-allotment Recipient	
			D7	Work Center Recipient	
				[141-01] Work Center Recipient	
			E1	Major Reimbursement Source Code	
				[141-01] Major Reimbursement Source Code	
			E2	Detail Reimbursement Source Code	
				[141-01] Detail Reimbursement Source Code	
			E3	Customer Indicator	
				[141-01] Customer Indicator	
			F1	Object Class	
				[141-01] Object Class	
			F3	Government or Public Sector Identifier	
				[141-01] Government or Public Sector Identifier	
			G2	Special Interest Code or Special Program Cost Code	
				[141-01] Special Interest Code or Special Program Cost Code	
			I1	Abbreviated Department of Defense (DoD) Budget and Accounting Classification Code (BACC)	
				[141-01] Abbreviated Department of Defense (DoD) Budget and Accounting Classification Code (BACC) Use 'I1' to denote Abbreviated Department of Defense (DoD) Budget and Accounting Classification	
			J1	Document or Record Reference Number	
				[141-01] Document or Record Reference Number	
			K6	Accounting Classification Reference Code	
				[141-01] Accounting Classification Reference Code	
			L1	Accounting Installation Number	
				[141-01] Accounting Installation Number	
			M1	Local Installation Data	
				[141-01] Local Installation Data	
			MD	Movement Designator Code (MDC)	
				[141-01] Movement Designator Code (MDC)	
			N1	Transaction Type	
				[141-01] Transaction Type	
			P5	Foreign Military Sales (FMS) Line Item Number	
				[141-01] Foreign Military Sales (FMS) Line Item Number	
			TA	Transportation Account Code (TAC)	
				[141-01] Transportation Account Code (TAC)	
			ZZ	Mutually Defined	
				[141-01] Mutually Defined	
M	**FA202**	**1195**	**Financial Information Code**	**M**	**AN 1/80**
			Code representing financial accounting information		
			[141-02] Financial Information Code (DG 190) When FA201 contains code value '84', FA202 should be formatted as a dollar amount including a decimal character and two positions after the decimal, representing cents even if the value is a whole dollar amount.		

Segment: **L10** **Weight**
Position: 250
Loop: FA1 Optional
Level: Detail
Usage: Optional
Max Use: 1
Purpose: To transmit weight information
Syntax Notes:
Semantic Notes:
Comments:
Notes: [142] L10 SEGMENT - TCN Weight (DG 190)
SEGMENT CONDITION: Use when appropriation weight applies.

Data Element Summary

	Ref. Des.	Data Element	Name		Attributes	
M	**L1001**	**81**	**Weight**		**M**	**R 1/10**
			Numeric value of weight			
			[142-01] Weight (DG 190) Entry may contain a decimal; if not, decimal is assumed at right-most point of the field.			
M	**L1002**	**187**	**Weight Qualifier**		**M**	**ID 1/2**
			Code defining the type of weight			
			[142-02] Weight Qualifier (DG 190)			
			N	Actual Net Weight		
				[142-02] Actual Net Weight		
>>	**L1003**	**188**	**Weight Unit Code**		**O**	**ID 1/1**
			Code specifying the weight unit			
			[142-03] Weight Unit Code (DG 190)			
			E	Metric Ton		
				[142-03] Metric Ton		
			G	Grams		
				[142-03] Grams		
			K	Kilograms		
				[142-03] Kilograms		
			L	Pounds		
				[142-03] Pounds		
			M	Measurement Ton		
				[142-03] Measurement Ton		
			O	Ounces		
				[142-03] Ounces		
			S	Short Ton		
				[142-03] Short Ton		
			T	Long Ton		
				[142-03] Long Ton		

Segment: **NM1** **Individual or Organizational Name**
Position: 260
Loop: NM1 Optional
Level: Detail
Usage: Optional
Max Use: 1
Purpose: To supply the full name of an individual or organizational entity
Syntax Notes: **1** If either NM108 or NM109 is present, then the other is required.
2 If NM111 is present, then NM110 is required.
Semantic Notes: **1** NM102 qualifies NM103.
Comments: **1** NM110 and NM111 further define the type of entity in NM101.
Notes: [143] NM1 SEGMENT - Personal Property Owner (DG 190)
LOOP CONDITION: Used only for OCEAN CARGO SHIPPING INSTRUCTIONS.

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
M	**NM101**	**98**	**Entity Identifier Code**	**M**	**ID 2/3**
			Code identifying an organizational entity, a physical location, property or an individual		
			[143-01] Personal Property Owner Qualifier (DG 190)		
			OW Owner of Property or Unit		
			[143-01] Owner of Property or Unit		
M	**NM102**	**1065**	**Entity Type Qualifier**	**M**	**ID 1/1**
			Code qualifying the type of entity		
			[143-02] Personal Property Owner Qualifier (DG 190)		
			1 Person		
			[143-02] Person		
>>	**NM103**	**1035**	**Name Last or Organization Name**	**O**	**AN 1/35**
			Individual last name or organizational name		
			[143-03] Personal Property Owner's Last Name (DG 190)		
>>	**NM104**	**1036**	**Name First**	**O**	**AN 1/25**
			Individual first name		
			[143-04] Personal Property Owner's First Name/Initial (DG 190)		
X	**NM105**	**1037**	**Name Middle**	**O**	**AN 1/25**
X	**NM106**	**1038**	**Name Prefix**	**O**	**AN 1/10**
X	**NM107**	**1039**	**Name Suffix**	**O**	**AN 1/10**
X	**NM108**	**66**	**Identification Code Qualifier**	**X**	**ID 1/2**
			Refer to 004010 Data Element Dictionary for acceptable code values.		
X	**NM109**	**67**	**Identification Code**	**X**	**AN 2/80**
X	**NM110**	**706**	**Entity Relationship Code**	**X**	**ID 2/2**
			Refer to 004010 Data Element Dictionary for acceptable code values.		
X	**NM111**	**98**	**Entity Identifier Code**	**O**	**ID 2/3**
			Refer to 004010 Data Element Dictionary for acceptable code values.		

Segment: **N1** **Name**
Position: 290
Loop: N1 Optional
Level: Detail
Usage: Optional
Max Use: 1
Purpose: To identify a party by type of organization, name, and code
Syntax Notes:
1 At least one of N102 or N103 is required.
2 If either N103 or N104 is present, then the other is required.
Semantic Notes:
Comments:
1 This segment, used alone, provides the most efficient method of providing organizational identification. To obtain this efficiency the "ID Code" (N104) must provide a key to the table maintained by the transaction processing party.
2 N105 and N106 further define the type of entity in N101.
Notes: [144] N1 SEGMENT - Mark For Addressee Information (MA) (DG 73)
LOOP CONDITION: Use this address loop when en-route consolidation activity or any other organization or system that handles the bill of lading data needs to know the ultimate destination of the shipment. This is needed particularly for OCONUS shipments where the bill of lading moves the freight to a port to change modes to air freight or ocean container.

Data Element Summary

	Ref. Des.	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			
			[144-01] Name Qualifier (MA) (DG 73) This qualifier identifies name and address information of the 'Mark For' ultimate consignee.			
			MA	Party for whom Item is Ultimately Intended		
				[144-01] Party for whom Item is Ultimately Intended		
	N102	**93**	**Name**		**X**	**AN 1/60**
			Free-form name			
			[144-02] Name (MA) (DG 73)			
>>	**N103**	**66**	**Identification Code Qualifier**		**X**	**ID 1/2**
			Code designating the system/method of code structure used for Identification Code (67)			
			[144-03] DoDAAC/CAGE/MAPAC Qualifier (MA) (DG 73) Do not use CAGE code for ocean shipments.			
			10	Department of Defense Activity Address Code (DODAAC)		
				[144-03] Department of Defense Activity Address Code (DODAAC)		
			33	Commercial and Government Entity (CAGE)		
				[144-03] Commercial and Government Entity (CAGE)		
			A2	Military Assistance Program Address Code (MAPAC)		
				Contained in the Military Assistance Program Address Directory (MAPAD); represents the location of an entity		
				[144-03] Military Assistance Program Address Code (MAPAC)		
>>	**N104**	**67**	**Identification Code**		**X**	**AN 2/80**
			Code identifying a party or other code			
			[144-04] DoDAAC/CAGE/MAPAC (MA) (DG 73) If DoDAAC/CAGE/MAPAC is unavailable, then N104 = 'XXXXXX' and the complete clear text name and address of the destination is required.			

X	**N105**	**706**	**Entity Relationship Code** Refer to 004010 Data Element Dictionary for acceptable code values.	**O**	**ID 2/2**
X	**N106**	**98**	**Entity Identifier Code** Refer to 004010 Data Element Dictionary for acceptable code values.	**O**	**ID 2/3**

Segment: **N2** **Additional Name Information**
Position: 300
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: [145] N2 SEGMENT - Mark For Addressee Information (MA) (DG 73)
SEGMENT CONDITION: Use when mark for addressee applies.

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
M	**N201**	**93**	**Name**	**M**	**AN 1/60**
			Free-form name		
			[145-01] Additional Name (MA) (DG 73)		
X	**N202**	**93**	**Name**	**O**	**AN 1/60**

Segment: **N3** **Address Information**
Position: 310
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: [146] N3 SEGMENT - Mark For Addressee Information (MA) (DG 73)

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
M	**N301**	**166**	**Address Information** Address information [146-01] Street (MA) (DG 73)	**M**	**AN 1/55**
	N302	**166**	**Address Information** Address information [146-02] Additional Addressing Information (DG 73)	**O**	**AN 1/55**

Segment: **N4** **Geographic Location**
Position: 320
Loop: N1 Optional
Level: Detail
Usage: Optional
Max Use: 1
Purpose: To specify the geographic place of the named party
Syntax Notes: **1** If N406 is present, then N405 is required.
Semantic Notes:
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: [147] N4 SEGMENT - Mark For Addressee Information (MA) (DG 73)
SEGMENT CONDITION: Use when mark for addressee applies.

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
	N401	**19**	**City Name**	**O**	**AN 2/30**
			Free-form text for city name		
			[147-01] City (MA) (DG 73)		
	N402	**156**	**State or Province Code**	**O**	**ID 2/2**
			Code (Standard State/Province) as defined by appropriate government agency		
			[147-02] State or Province Code (MA) (DG 73) SOURCE: National Zip Code and Post Office Directory available from U.S. Postal Service National Information Data Center		
	N403	**116**	**Postal Code**	**O**	**ID 3/15**
			Code defining international postal zone code excluding punctuation and blanks (zip code for United States)		
			[147-03] ZIP Code/Postal Code (MA) (DG 73) SOURCE: National ZIP Code and Post Office Directory, Publication 65 available from U.S Postal Service; The USPS Domestic Mail Manual available from New Orders Superintendent of Documents		
	N404	**26**	**Country Code**	**O**	**ID 2/3**
			Code identifying the country		
			[147-04] Country Code (MA) (DG 73) ELEMENT CONDITION: If mark for addressee is OCONUS, country code is required. SOURCE: Code for Representation of Names of Countries, Geopolitical Entities, Names, and Codes (GENC), is represented in the National System for Geospatial Intelligence (NSG) GENC Registry and mirrored at http://www.transcom.mil/dteb/files/refdata/V_CTRY_DOD.htm. Codes for Representation of Currencies and Funds, ISO 4217, is available from American National Standards Institute.		
X	**N405**	**309**	**Location Qualifier**	**X**	**ID 1/2**
			Refer to 004010 Data Element Dictionary for acceptable code values.		
X	**N406**	**310**	**Location Identifier**	**O**	**AN 1/30**

Segment: **L3** **Total Weight and Charges**
Position: 010
Loop:
Level: Summary
Usage: Optional (Must Use)
Max Use: 1
Purpose: To specify the total shipment in terms of weight, volume, rates, charges, advances, and prepaid amounts applicable to one or more line items
Syntax Notes:
1 If either L301 or L302 is present, then the other is required.
2 If either L303 or L304 is present, then the other is required.
3 If either L309 or L310 is present, then the other is required.
4 If L312 is present, then L301 is required.
5 If either L314 or L315 is present, then the other is required.
Semantic Notes:
1 L305 is the total charges.
Comments:
Notes: [194] L3 SEGMENT - Bill of Lading Totals (DG 990)

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
X	L301	81	**Weight**	X	R 1/10
X	L302	187	**Weight Qualifier**	X	ID 1/2
			Refer to 004010 Data Element Dictionary for acceptable code values.		
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.		
>>	L305	58	**Charge**	O	N2 1/12
			For a line item: freight or special charge; for the total invoice: the total charges -- expressed in the standard monetary denomination for the currency specified		
			[194-05] Total Charge for Shipment (DG 990) Estimated or calculated charge for entire shipment.		
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		
			[194-09] Total Cube of Shipment (DG 990)		

	L310	**184**	**Volume Unit Qualifier**	**X**	**ID 1/1**
			Code identifying the volume unit		
			[194-10] Total Cube of Shipment Qualifier (DG 990) ELEMENT CONDITION: This qualifier must appear if total cube of shipment (L309) is used.		
			E — Cubic Feet [194-10] Cubic Feet		
			F — 100 Board Feet [194-10] 100 Board Feet		
			G — Gallons [194-10] Gallons		
			H — Hundreds of Measurement Tons [194-10] Hundreds of Measurement Tons		
			S — Measurement Ton [194-10] Measurement Ton		
			V — Liter [194-10] Liter		
			X — Cubic Meters [194-10] Cubic Meters		
	L311	**80**	**Lading Quantity**	**O**	**N0 1/7**
			Number of units (pieces) of the lading commodity		
			[194-11] Number of Carloads/Truckloads Used (DG 990) The total number of pieces of equipment used for the shipment. This quantity may be used to rate the cost of a shipment.		
X	**L312**	**188**	**Weight Unit Code**	**O**	**ID 1/1**
			Refer to 004010 Data Element Dictionary for acceptable code values.		
X	**L313**	**171**	**Tariff Number**	**O**	**AN 1/7**
X	**L314**	**74**	**Declared Value**	**X**	**N2 2/12**
X	**L315**	**122**	**Rate/Value Qualifier**	**X**	**ID 2/2**
			Refer to 004010 Data Element Dictionary for acceptable code values.		

Segment: **SE** **Transaction Set Trailer**
Position: 020
Loop:
Level: Summary
Usage: Mandatory
Max Use: 1
Purpose: To indicate the end of the transaction set and provide the count of the transmitted segments (including the beginning (ST) and ending (SE) segments)
Syntax Notes:
Semantic Notes:
Comments: **1** SE is the last segment of each transaction set.
Notes: [195] SE SEGMENT - Bill of Lading Trailer (DG 10)

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
M	**SE01**	**96**	**Number of Included Segments** Total number of segments included in a transaction set including ST and SE segments [195-01] Number of Included Segments (DG 10) Total segments in this transaction set including the ST and SE segments.	**M N0 1/10**
M	**SE02**	**329**	**Transaction Set Control Number** Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set [195-02] Transaction Set Control Number (DG 10) 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**

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 bill of lading into the *ASC* X12 Transaction Set 858 Shipment Information. 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.

DoD INFORMATION						X12 SEGMENT INFORMATION							X12 ELEMENT INFORMATION				
Index	DG	Data Name Notes and Codes	DoD Recommended Attributes			Tabl	Pos	Req Des	Max Use	Lp Rpt	Lp Lvl	Lp ID	Ref Des	DE #	Attributes		
1	10	**ST SEGMENT - Bill of Lading Header**	M			1	010	M	1								
1-01	10	Transaction Set Identifier Code 858 - Shipment Information	M	ID	3/3	1	010	M	1				ST01	143	M	ID	3/3
							The transaction set identifier (ST01) used by the translation routines of the interchange partners to select the appropriate transaction set definition (e.g., 810 selects the Invoice Transaction Set).										
1-02	10	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	10	**BX SEGMENT - Bill of Lading Number**	M			1	030	M	1								
2-01	10	Transaction Set Purpose Code [T_0 53/53] 00 - Original 01 - Cancellation 04 - Change 14 - Advance Notification 20 - Final Transmission	M	ID	2/2	1	030	M	1				BX01	353	M	ID	2/2
2-02	10	Transportation Method Code (Mode Code) [T_0 27/27] See Section 6 for list of data values.	M	ID	1/2	1	030	M	1				BX02	91	M	ID	1/2
2-03	10	Method of Payment Use only 'TP' for ocean shipments only. CC - Collect CD - Collect on Delivery PP - Prepaid (by Seller) TP - Third Party Pay	M	ID	2/2	1	030	M	1				BX03	146	M	ID	2/2
2-04	10	Bill of Lading/Shipment ID Number Carry either original or most recent bill of lading number or shipment identification number here. For ocean shipments, use TCN as shipment identifier. Do not use any punctuation or special characters. [T_2 30/46]	M	AN	8/30	1	030	M	1				BX04	145	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		
2-05	10	Transportation Company Tendered To (SCAC) Use SCAC of origin carrier. SCAC should be validated against the National Motor Freight Traffic Association (NMFTA) SCAC reference file. For ocean shipments, enter 'NONE' if carrier is unknown. This entry represents the booked carrier for ocean shipments, not the carrier that actually transports the shipment. For Defense Transportation Coordination Initiative (DTCI) or Defense Freight Transportation Services (DFTS) shipments, enter the DTCI or DFTS coordinator's SCAC. SOURCE: Directory of Standard Multi-Model Carriers and Tariff Agents Codes (SCAC-STAC), NMF 101 Series available from National Motor Freight Association, Inc.	M	ID	2/4	1	030	M	1				BX05	140	O	ID	2/4
2-07	10	Bill Purpose/Application Type Code A - Sub for Assembly *Use 'A' to denote OCEAN CARGO SHIPPING INSTRUCTIONS Break-Bulk.* B - Bill of Lading for Individual Shipment C - Consolidated Shipment *Use 'C' to denote OCEAN CARGO SHIPPING INSTRUCTIONS Consolidation Header (Stand-Alone).* E - Empty Equipment Billing (Non-Revenue) *Use 'E' to denote OCEAN CARGO SHIPPING INSTRUCTIONS Container (Skeleton SI).* F - Stop-off Shipment *Use 'F' to denote Negotiated Rates for Foreign Military Sales Bills of Lading.* G - Switch Waybill *Use 'G' to denote Negotiated Rates for Tailored Transportation Contract Traffic Bill of Lading.* M - Master Bill of Lading for Assembly, Distribution and Volume Shipment *Use 'M' to denote Commercial Rates for Foreign Military Sales Bills of Lading.* Z - Commercial Zone Pick-up *Use 'Z' to denote OCEAN CARGO SHIPPING INSTRUCTIONS Container..*	M	ID	1/1	1	030	M	1				BX07	147	O	ID	1/1
2-09	10	Vehicle Fully Loaded (Capacity Load Status) ELEMENT CONDITION: Include if shipment is tendered as truckload. F - Full Capacity	C	ID	1/1	1	030	M	1				BX09	195	O	ID	1/1

DoD INFORMATION						X12 SEGMENT INFORMATION							X12 ELEMENT INFORMATION				
Index	DG	Data Name Notes and Codes	DoD Recommended Attributes			Tabl	Pos	Req Des	Max Use	Lp Rpt	Lp Lvl	Lp ID	Ref Des	DE #	Attributes		
2-10	10	Defense Transportation Tracking System Reporting Qualifier Use of this element results in immediate Military Surface Deployment and Distribution Command (SDDC) processing for DTTS shipments. ELEMENT CONDITION: Include if the Defense Transportation Tracking System (DTTS) is required. R - Automatic Status Report Requested	C	ID	1/1	1	030	M	1				BX10	160	O	ID	1/1
2-14	10	Application Type Use the following migration code value to denote the DoD definition as indicated: ELEMENT CONDITION: Use when broker. BF - [Migration Code] Broker Files	C	ID	2/2	1	030	M	1				BX14	346	O	ID	2/2
3	10	**BNX SEGMENT - Shipment Weight and Billing** SEGMENT CONDITION: Use when weight and billing data are required.	C			1	040	O	1								
3-01	10	Shipment Weight Code [T_0 15/15] A - Shipper's Weight Agreement	M	ID	1/1	1	040	O	1				BNX01	460	O	ID	1/1
3-03	10	Billing Code S - Single Shipment Billing	M	ID	1/1	1	040	O	1				BNX03	11	O	ID	1/1
4	10	**N9 SEGMENT - Transaction Content ID** SEGMENT CONDITION: Required for all shipments except by ocean.	C			1	060	O	30								
							At least one of N902 or N903 is required. If N906 is present, then N905 is required.										
4-01	10	Transaction Content ID Qualifier FI - File Identifier	M	ID	2/2	1	060	O	30				N901	128	M	ID	2/3

DoD INFORMATION						X12 SEGMENT INFORMATION							X12 ELEMENT INFORMATION				
Index	DG	Data Name Notes and Codes	DoD Recommended Attributes			Tabl	Pos	Req Des	Max Use	Lp Rpt	Lp Lvl	Lp ID	Ref Des	DE #	Attributes		
4-02	10	Transaction Content ID This data element identifies the application contents of the 858. The following DoD-unique codes should be used by all trading partners to identify the data content in the transaction set: CI - Cost Information CR - Cost Request DC - Doubtful Claim SC - Shipment and Cost Information SI - Shipment Information SM - Supplemental Claim SP - Supplemental Bill	M	AN	2/2	1	060	O	30				N902	127	C	AN	1/30
5	10	**N9 SEGMENT - Route Order/Release No/Emergency Routings** SEGMENT CONDITION: Include this segment when moving a Tailored Transportation Contract (TTC) Traffic or SDDC routed shipment.	C			1	060	O	30								
							At least one of N902 or N903 is required. If N906 is present, then N905 is required.										
5-01	10	Route Order/Release No/Emergency Routings Qualifier RG - Route Order Number-Domestic RH - Route Order Number-Export RJ - Route Order Number-Emergency	M	ID	2/2	1	060	O	30				N901	128	M	ID	2/3
5-02	10	Route Order/Release No/Emergency Routings	M	AN	10/10	1	060	O	30				N902	127	C	AN	1/30
6	10	**N9 SEGMENT - Carrier Way/Freight Bill Number** SEGMENT CONDITION: Include this segment if the freight bill number is available.	C			1	060	O	30								
							At least one of N902 or N903 is required. If N906 is present, then N905 is required.										
6-01	10	Carrier Way/Freight Bill Number Qualifier CN - Carrier's Reference Number (PRO/Invoice)	M	ID	2/2	1	060	O	30				N901	128	M	ID	2/3
6-02	10	Carrier Way/Freight Bill Number	M	AN	1/30	1	060	O	30				N902	127	C	AN	1/30
6-04	10	Carrier Way/Freight Bill Date	C	DT	8/8	1	060	O	30				N904	373	O	DT	8/8
7	10	**N9 SEGMENT - Authority Number (Contract/PO)** SEGMENT CONDITION: Use this segment if an authority number applies to the shipment.	C			1	060	O	30								
							At least one of N902 or N903 is required. If N906 is present, then N905 is required.										

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	10	Authority Number (Contract/PO) Qualifier CT - Contract Number PO - Purchase Order Number	M	ID	2/2	1	060	O	30				N901	128	M	ID	2/3
7-02	10	Authority Number (Contract/PO) Movements under contracts need to reflect the subcontract number for ocean shipments.	M	AN	1/30	1	060	O	30				N902	127	C	AN	1/30
7-04	10	Authority Number (Contract/PO) Date	C	DT	8/8	1	060	O	30				N904	373	O	DT	8/8
8	10	**N9 SEGMENT - Service Agency Code** SEGMENT CONDITION: Use for Tailored Transportation Contract (TTC) Traffic only; not used for DLA. GFM will not cost DLA TTC shipments.	C			1	060 At least one of N902 or N903 is required. If N906 is present, then N905 is required.	O	30								
8-01	10	Service Agency Code Qualifier SV - Service Charge Number	M	ID	2/2	1	060	O	30				N901	128	M	ID	2/3
8-02	10	Service Agency Code A - Army B - Defense Mapping Agency F - Air Force M - Marine Corps N - Navy P - Coast Guard S - Defense Logistics Agency U - GSA W - Army and AF Exchange X - Multi-Service Y - Non DoD - except Coast Guard	M	AN	1/1	1	060	O	30				N902	127	C	AN	1/30
9	10	**N9 SEGMENT - Container TCN** SEGMENT CONDITION: Required for OCEAN CARGO SHIPPING INSTRUCTIONS. Not used otherwise.	C			1	060 At least one of N902 or N903 is required. If N906 is present, then N905 is required.	O	30								
9-01	10	TCN for Each Container Qualifier TG - Transportation Control Number (TCN)	M	ID	2/2	1	060	O	30				N901	128	M	ID	2/3
9-02	10	TCN for Each Container	M	AN	17/17	1	060	O	30				N902	127	C	AN	1/30

DoD INFORMATION						X12 SEGMENT INFORMATION							X12 ELEMENT INFORMATION				
Index	DG	Data Name Notes and Codes	DoD Recommended Attributes			Tabl	Pos	Req Des	Max Use	Lp Rpt	Lp Lvl	Lp ID	Ref Des	DE #	Attributes		
10	10	**N9 SEGMENT - Container Transportation Tracking Number (TTN)** SEGMENT CONDITION: Required for OCEAN CARGO SHIPPING INSTRUCTIONS when moving unit move cargo and Transportation Tracking Number is applicable.	C			1	060	O	30								
							At least one of N902 or N903 is required. If N906 is present, then N905 is required.										
10-01	10	Container Transportation Tracking Number (TTN) Qualifier 18 - Plan Number *Use '18' to denote Container Transportation Tracking Number (TTN) Qualifier.*	M	ID	2/2	1	060	O	30				N901	128	M	ID	2/3
10-02	10	Container Transportation Tracking Number (TTN)	M	AN	17/17	1	060	O	30				N902	127	C	AN	1/30
11	10	**N9 SEGMENT - Carrier Booking Number** SEGMENT CONDITION: Required for OCEAN CARGO SHIPPING INSTRUCTIONS - Direct Booking. Not used otherwise.	C			1	060	O	30								
							At least one of N902 or N903 is required. If N906 is present, then N905 is required.										
11-01	10	Carrier Booking Number Qualifier BN - Booking Number	M	ID	2/2	1	060	O	30				N901	128	M	ID	2/3
11-02	10	Carrier Booking Number	M	AN	17/17	1	060	O	30				N902	127	C	AN	1/30
12	10	**N9 SEGMENT - Trade Route Number** SEGMENT CONDITION: Required for ocean shipments. Identifies the trade route a shipment was booked/moved on.	C			1	060	O	30								
							At least one of N902 or N903 is required. If N906 is present, then N905 is required.										
12-01	10	Trade Route Number Qualifier RU - Route Number	M	ID	2/2	1	060	O	30				N901	128	M	ID	2/3
12-02	10	Trade Route Number	M	AN	1/4	1	060	O	30				N902	127	C	AN	1/30
13	10	**N9 SEGMENT - Vessel Name** SEGMENT CONDITION: Required for OCEAN CARGO SHIPPING INSTRUCTIONS - Direct Booking. Not used otherwise.	C			1	060	O	30								
							At least one of N902 or N903 is required. If N906 is present, then N905 is required.										
13-01	10	Vessel Name Qualifier ABS - Vessel Name	M	ID	3/3	1	060	O	30				N901	128	M	ID	2/3
13-02	10	Vessel Name Shippers should take great care in spelling vessel name correctly.	M	AN	1/30	1	060	O	30				N902	127	C	AN	1/30

DoD INFORMATION						X12 SEGMENT INFORMATION							X12 ELEMENT INFORMATION				
Index	DG	Data Name Notes and Codes	DoD Recommended Attributes			Tabl	Pos	Req Des	Max Use	Lp Rpt	Lp Lvl	Lp ID	Ref Des	DE #	Attributes		
14	10	**N9 SEGMENT - Carrier Voyage Number** SEGMENT CONDITION: Required for OCEAN CARGO SHIPPING INSTRUCTIONS.	C			1	060	O	30								
							At least one of N902 or N903 is required. If N906 is present, then N905 is required.										
14-01	10	Carrier Voyage Number Qualifier V3 - Voyage Number	M	ID	2/2	1	060	O	30				N901	128	M	ID	2/3
14-02	10	Carrier Voyage Number	M	AN	1/10	1	060	O	30				N902	127	C	AN	1/30
15	10	**N9 SEGMENT - 3rd Party Logistics Coordinator Internal Order Number** SEGMENT CONDITION: Use for shipments with an internal order number assigned by a 3rd Party Logistics (DTCI or DFTS) coordinator's transportation management system and provided in the EDI Transportation Service Response transaction to the shipper.	C			1	060	O	30								
							At least one of N902 or N903 is required. If N906 is present, then N905 is required.										
15-01	10	3rd Party Logistics (DTCI or DFTS) Internal Order Number Qualifier CB - Combined Shipment *Use 'CB' to denote DTCI Coordinator Internal Order Number.* RE - Release Number *Use 'RE' to denote Defense Freight Transportation Services (DFTS) Internal Order Number.*	M	ID	2/2	1	060	O	30				N901	128	M	ID	2/3
15-02	10	3rd Party Logistics (DTCI or DFTS) Internal Order Number Enter the internal order number assigned by the 3rd Party Logistics (DTCI or DFTS) coordinator's transportation management system and provided in the EDI Transportation Service Response transaction to the shipper.	M	AN	1/30	1	060	O	30				N902	127	C	AN	1/30
16	10	**Y7 SEGMENT - Transportation Priority Code** SEGMENT CONDITION: Use this segment if Military Standard Requisitioning and Issue Procedures (MILSTRIP) apply.	C			1	080	O	1								
							If either Y702 or Y703 is present, then the other is required.										
16-01	10	Transportation Priority Code 1 - Level 1 2 - Level 2 3 - Level 3	M	N0	1/1	1	080	O	1				Y701	467	O	N0	1/1
17	10	**C3 SEGMENT - Currency Code** SEGMENT CONDITION: This segment indicates the currency used for the bill of lading. The segment is not required and will not be used when currency is in U.S. Dollars.	C			1	090	O	1								
							Currency is implied by the code for the country in whose currency the monetary amounts are specified.										

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		
17-01	10	Currency Code SOURCE: Code for Representation of Names of Countries, Geopolitical Entities, Names, and Codes (GENC), is represented in the National System for Geospatial Intelligence (NSG) GENC Registry and mirrored at http://www.transcom.mil/dteb/files/refdata/V_CTRY_DOD.htm. Codes for Representation of Currencies and Funds, ISO 4217, is available from American National Standards Institute.	M	ID	3/3	1	090 C301 is the billing currency.	O	1				C301	100	M	ID	3/3
18	10	**G62 SEGMENT - Bill of Lading/Shipping Instruction Prepared Date**	M			1	110 At least one of G6201 or G6203 is required. If either G6201 or G6202 is present, then the other is required. If either G6203 or G6204 is present, then the other is required.	O	10								
18-01	10	Date Bill of Lading/Shipping Instruction Prepared Date Qualifier 76 - Bill of Lading	M	ID	2/2	1	110	O	10				G6201	432	C	ID	2/2
18-02	10	Date Bill of Lading/Shipping Instruction Prepared Date The date on which the bill of lading was printed at the origin installation.	M	DT	8/8	1	110	O	10				G6202	373	C	DT	8/8
19	10	**G62 SEGMENT - Desired/Required Delivery**	M			1	110 At least one of G6201 or G6203 is required. If either G6201 or G6202 is present, then the other is required. If either G6203 or G6204 is present, then the other is required.	O	10								
19-01	10	Desired/Required Delivery Date Qualifier This qualifier must appear if desired/required delivery date is used. Under applicable ocean contracts, the Contract Delivery Date will take precedence over the Required Delivery Date. Code '67' used only for 3rd Party Logistics (Defense Transportation Coordination Initiative (DTCI) or Defense Freight Transportation Services (DFTS)) shipments. 54 - Deliver No Later Than Date *Use '54' to denote Required Delivery Date.* 67 - Delivered By This Date *Use '67' to denote Mandatory Delivery Date.* 68 - Requested Delivery Date *Use '68' to denote Desired Delivery Date.*	M	ID	2/2	1	110	O	10				G6201	432	C	ID	2/2
19-02	10	Desired/Required Delivery Date	M	DT	8/8	1	110	O	10				G6202	373	C	DT	8/8
20	10	**G62 SEGMENT - Carrier's Pickup** SEGMENT CONDITION: Not required for ocean shipments. Required for all other shipment information transactions except advanced shipment notification.	C			1	110 At least one of G6201 or G6203 is required. If either G6201 or G6202 is present, then the other is required. If either G6203 or G6204 is present, then the other is required.	O	10								

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		
20-01	10	Carrier's Pickup Date Qualifier SDDC will accept only code value '86' from shippers. 86 - Actual Pickup Date	M	ID	2/2	1	110	O	10				G6201	432	C	ID	2/2
20-02	10	Carrier's Pickup Date	M	DT	8/8	1	110	O	10				G6202	373	C	DT	8/8
20-03	10	Carrier's Pickup Time Qualifier ELEMENT CONDITION: This element is required for Defense Transportation Tracking System (DTTS) shipments. 8 - Actual Pickup Time	C	ID	1/1	1	110	O	10				G6203	176	C	ID	1/2
20-04	10	Carrier's Pickup Time Use format HHMM. ELEMENT CONDITION: This element is required for DTTS shipments.	C	TM	4/8	1	110	O	10				G6204	337	C	TM	4/8
20-05	10	Time Zone Indicator If DTTS shipment, this segment occurs twice; once with code value 'LT' for local time and once with 'GM' for Greenwich time. If shipment is other than DTTS, use 'LT' local time only. Repeat G6201 and G6202 for both occurrences of the segment. SOURCE: ISO 8601 available from American National Standards Institute GM - Greenwich Mean Time LT - Local Time	M	ID	2/2	1	110	O	10				G6205	623	O	ID	2/2
21	10	**G62 SEGMENT - Date Shipped to POE** SEGMENT CONDITION: Use only for ocean shipments.	C			1	110	O	10								
							At least one of G6201 or G6203 is required. If either G6201 or G6202 is present, then the other is required. If either G6203 or G6204 is present, then the other is required.										
21-01	10	Date Shipped to POE Qualifier 10 - Requested Ship Date/Pick-up Date	M	ID	2/2	1	110	O	10				G6201	432	C	ID	2/2
21-02	10	Date Shipped to POE	M	DT	8/8	1	110	O	10				G6202	373	C	DT	8/8
22	10	**G62 SEGMENT - Adjusted Date Shipped to POE** SEGMENT CONDITION: Use only for ocean shipment.	C			1	110	O	10								
							At least one of G6201 or G6203 is required. If either G6201 or G6202 is present, then the other is required. If either G6203 or G6204 is present, then the other is required.										
22-01	10	Adjusted Date Shipped to POE Qualifier BB - Transaction Control Date	M	ID	2/2	1	110	O	10				G6201	432	C	ID	2/2

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		
22-02	10	Adjusted Date Shipped to POE	C	DT	8/8	1	110	O	10				G6202	373	C	DT	8/8
22-03	10	Adjusted Time Shipped to POE Qualifier W - Effective Time	M	ID	1/1	1	110	O	10				G6203	176	C	ID	1/2
22-04	10	Adjusted Time Shipped to POE Use format HHMMSS.	M	TM	6/6	1	110	O	10				G6204	337	C	TM	4/8
22-05	10	Adjusted Time Code SOURCE: ISO 8601 available from American National Standards Institute LT - Local Time	M	ID	2/2	1	110	O	10				G6205	623	O	ID	2/2
23	10	**G62 SEGMENT - Delivery** SEGMENT CONDITION: Use segment when date of delivery is available.	C			1	110	O	10								
							At least one of G6201 or G6203 is required. If either G6201 or G6202 is present, then the other is required. If either G6203 or G6204 is present, then the other is required.										
23-01	10	Date of Delivery Qualifier 35 - Delivered on This Date	M	ID	2/2	1	110	O	10				G6201	432	C	ID	2/2
23-02	10	Date of Delivery	M	DT	8/8	1	110	O	10				G6202	373	C	DT	8/8
24	10	**G62 SEGMENT - Sailing Date** SEGMENT CONDITION: Required for OCEAN CARGO SHIPPING INSTRUCTIONS. Not used otherwise.	C			1	110	O	10								
							At least one of G6201 or G6203 is required. If either G6201 or G6202 is present, then the other is required. If either G6203 or G6204 is present, then the other is required.										
24-01	10	Sailing Date Qualifier 05 - Sailing Date	M	ID	2/2	1	110	O	10				G6201	432	C	ID	2/2
24-02	10	Sailing Date	M	DT	8/8	1	110	O	10				G6202	373	C	DT	8/8
25	10	**PER SEGMENT - Shipment Contact** SEGMENT CONDITION: Use segment when telephone contact may be required with person receiving shipment.	C			1	120	O	3								
							If either PER03 or PER04 is present, then the other is required. If either PER05 or PER06 is present, then the other is required. If either PER07 or PER08 is present, then the other is required.										
25-01	10	Shipment Contact Qualifier IC - Information Contact	M	ID	2/2	1	120	O	3				PER01	366	M	ID	2/2

DoD INFORMATION						X12 SEGMENT INFORMATION							X12 ELEMENT INFORMATION				
Index	DG	Data Name Notes and Codes	DoD Recommended Attributes			Tabl	Pos	Req Des	Max Use	Lp Rpt	Lp Lvl	Lp ID	Ref Des	DE #	Attributes		
25-03	10	Shipment Contact Qualifier AU - Defense Switched Network FT - Federal Telecommunications System (FTS) TE - Telephone	M	ID	2/2	1	120	O	3				PER03	365	C	ID	2/2
25-04	10	Shipment Contact Telephone No. Telephone number of shipment POC.	M	AN	7/21	1	120	O	3				PER04	364	C	AN	1/80
26	10	**PER SEGMENT - Emergency Response Telephone No.** SEGMENT CONDITION: Use segment when shipment requires an emergency telephone contact.	C			1	120	O	3								
							If either PER03 or PER04 is present, then the other is required. If either PER05 or PER06 is present, then the other is required. If either PER07 or PER08 is present, then the other is required.										
26-01	10	Emergency Response Telephone No. Function Code EF - Emergency Contact-Military Traffic Management Command (MTMC) *Use 'EF' to denote Emergency Contact - Military Surface Deployment and Distribution Command (SDDC).*	M	ID	2/2	1	120	O	3				PER01	366	M	ID	2/2
26-03	10	Emergency Response Telephone No. Qualifier AU - Defense Switched Network IT - International Telephone TE - Telephone	M	ID	2/2	1	120	O	3				PER03	365	C	ID	2/2
26-04	10	Emergency Response Telephone No.	M	AN	7/21	1	120	O	3				PER04	364	C	AN	1/80
27	72	**F9 SEGMENT - Originating Railroad Station** SEGMENT CONDITION: Use to designate origination railroad station as applicable.	C			1	140	O	1								
27-02	72	Originating Railroad Station Name of railroad station where shipment originated.	M	AN	2/19	1	140	O	1				F902	19	M	AN	2/30
							F902 is the origin station for movement.										
27-03	72	State of Originating Railroad Station SOURCE: National Zip Code and Post Office Directory available from U.S. Postal Service National Information Data Center	M	ID	2/2	1	140	O	1				F903	156	M	ID	2/2
27-08	72	SPLC of Originating Railroad Station SOURCE: Continental Directory of Standard Point Location Codes (SPLC) available from National Motor Freight Traffic Association, Inc.	C	ID	9/9	1	140	O	1				F908	154	O	ID	6/9
							F908 is the Standard Point Location Code (SPLC) for the city named in the F902.										

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	71	**D9 SEGMENT - Destination Railroad Station** SEGMENT CONDITION: Use to designate destination railroad station as applicable.	C			1	150	O	1								
28-02	71	Destination Railroad Station Name of railroad station where shipment will terminate.	M	AN	2/19	1	150 D902 is the destination station of movement.	O	1				D902	19	M	AN	2/30
28-03	71	State of Destination Railroad Station SOURCE: National Zip Code and Post Office Directory available from U.S. Postal Service National Information Data Center	M	ID	2/2	1	150	O	1				D903	156	M	ID	2/2
28-08	71	SPLC of Destination Railroad Station SOURCE: Continental Directory of Standard Point Location Codes (SPLC) available from National Motor Freight Traffic Association, Inc.	C	ID	9/9	1	150 D908 is the Standard Point Location Code (SPLC) for the city named in the D902.	O	1				D908	154	O	ID	6/9
29	10	**R2 SEGMENT - Interline or 3PL Carrier** SEGMENT CONDITION: For non-3PL coordinated shipments (Defense Transportation Coordination Initiative (DTCI) or Defense Freight Transportation Services (DFTS)) use this segment if interline carriers are used during shipment. However, shipper systems are not required to provide Interline Carrier Routing information for rail movements. For 3PL shipments (DTCI or DFTS), use this segment to identify the carrier to whom the 3PL coordinator has assigned the shipment.	C			1	170 If R208 is present, then R207 is required.	O	13								
29-01	10	Via (Routing) SCAC For non-3PL coordinated shipments (DTCI or DFTS) enter SCAC of interline and destination carrier(s) in sequence after origin carrier. The origin carrier should not be included in an interline list. For 3PL coordinated shipments (DTCI or DFTS), enter the SCAC of the carrier to whom the 3PL coordinator assigned the shipment. SOURCE: Directory of Standard Multi-Model Carriers and Tariff Agents Codes (SCAC-STAC), NMF 101 Series available from National Motor Freight Association, Inc.	M	ID	2/4	1	170	O	13				R201	140	M	ID	2/4

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		
29-02	10	Via (Routing) SCAC Qualifier Use 'B' for 3PL shipments (DTCI or DFTS) to indicate the carrier the 3PL coordinator assigned to the shipment. 1 - 1st Carrier after Origin Carrier 2 - 2nd Carrier after Origin Carrier 3 - 3rd Carrier after Origin Carrier 4 - 4th Carrier after Origin Carrier 5 - 5th Carrier after Origin Carrier A - Origin Carrier, Agent's Routing (Rail) B - Origin/Delivery Carrier (Any Mode) D - DELY (Delivery Switch Carrier) H - Haulage Rights Carrier and Junction I - Origin Switch Carrier M - Haulage Movement Carrier and Junction O - Origin Carrier (Air, Motor, or Ocean) R - Origin Carrier, Rule 11 Shipment S - Origin Carrier, Shipper's Routing (Rail) V - Intermediate Switch Carrier Z - Mutually Defined	M	ID	1/1	1	170	O	13				R202	133	M	ID	1/2
29-03	10	Via (Routing) Location	C	AN	2/30	1	170	O	13				R203	19	O	AN	2/30
							R203 is the station or city name at which carriers interchange shipments.										
29-04	10	Via (Routing) SPLC SOURCE: Continental Directory of Standard Point Location Codes (SPLC) available from National Motor Freight Traffic Association, Inc.	C	ID	9/9	1	170	O	13				R204	154	O	ID	6/9
30	10	**R4 SEGMENT - POE** SEGMENT CONDITION: Required for OCEAN CARGO SHIPPING INSTRUCTIONS. Not used otherwise.	C			1	180	O	5								
							If either R402 or R403 is present, then the other is required. R4 is required for each port to be identified.										
30-01	10	Port or Terminal Function Code L - Port of Loading (Operational)	M	ID	1/1	1	180	O	5				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		
30-02	10	Location Qualifier SOURCE: Defense Traffic Management Regulation (DTMR), Appendix I - Government Bill of Lading Codes available from Military Traffic Management Command (MTMC) IM - Military Standard Movement Procedures (MILSTAMP)	M	ID	2/2	1	180	O	5				R402	309	C	ID	1/2
30-03	10	POE [T_3 21/23]	C	AN	3/3	1	180	O	5				R403	310	C	AN	1/30
31	10	**R4 SEGMENT - POD** SEGMENT CONDITION: Required for OCEAN CARGO SHIPPING INSTRUCTIONS. Not used otherwise.	C			1	180	O	5								
							If either R402 or R403 is present, then the other is required. R4 is required for each port to be identified.										
31-01	10	Port or Terminal Function Code D - Port of Discharge (Operational)	M	ID	1/1	1	180	O	5				R401	115	M	ID	1/1
31-02	10	Location Qualifier SOURCE: Defense Traffic Management Regulation (DTMR), Appendix I - Government Bill of Lading Codes available from Military Traffic Management Command (MTMC) [T_0 20/20] IM - Military Standard Movement Procedures (MILSTAMP)	M	ID	2/2	1	180	O	5				R402	309	C	ID	1/2
31-03	10	POD [T_3 21/23]	C	AN	3/3	1	180	O	5				R403	310	C	AN	1/30
32	10	**H3 SEGMENT - Accessorial/Protective Service** SEGMENT CONDITION: Use if shipper orders accessorial services from the carrier. Use also if the Defense Transportation Tracking System (DTTS) is required.	C			1	200	O	20								
							Only one of H301 or H302 may be present.										
32-01	10	Accessorial/Protective Service Ordered Identifier Order accessorial services with this data element. To order accessorial services, the carrier industry requires the use of the H3 segment. This code also appears in the HL Accessorial/Protective Service (formerly LX 300) loop which is used to cost accessorial services. Do not use this element to order surveillance services; use the next occurrence of the H3 segment. See Section 6.0 for valid code list. SOURCE: Reference Section 6.0 of this IC beginning at page 6.14 for code values using applicable Accessorial Services for Rail Shipments, Accessorial Services for Tailored Transportation Contract Traffic Shipments, Accessorial/Protective Service For Air Shipments, Accessorial/Protective Service For Motor Shipments,Bulk Fuel Shipments, Miscellaneous Services, and Pipeline Shipments tables. Common code values associated with multiple definitions prevents documentation of the entire sub-set. Sample Values: 003, 015, 020, 045, 495, 500, 535, 593, AAM, AAS, AAT, DOC, HMA, HMI, MSG, PDY	M	ID	3/3	1	200	O	20				H301	152	C	ID	2/3

DoD INFORMATION						X12 SEGMENT INFORMATION							X12 ELEMENT INFORMATION				
Index	DG	Data Name Notes and Codes	DoD Recommended Attributes			Tabl	Pos	Req Des	Max Use	Lp Rpt	Lp Lvl	Lp ID	Ref Des	DE #	Attributes		
33	10	**H3 SEGMENT - Actual Surveillance Service and Requesting Party** SEGMENT CONDITION: Use this segment when ordering surveillance services.	C			1	200 Only one of H301 or H302 may be present.	O	20								
33-02	10	Actual Surveillance Service and Requesting Party Use this data element for requesting Surveillance Services only. See H301 for the applicable code values to enter in this data element. Do not use this data element to order accessorial services. Rather, use the H301 data element in a separate occurrence of the H3 segment for non-surveillance services. Provide the military service code to indicate the requesting party. Military service codes are: A = Army, N = Navy, F = Air Force, M = Marine Corps, P = Coast guard, and S = Defense Logistics Agency. Use a comma for the sub element delimiter between the actual service code and the requesting party.	M	AN	5/5	1	200	O	20				H302	153	C	AN	2/30
34	10	**E1 SEGMENT - Receiving Party For Empty Railcar** LOOP CONDITION: Use when shipment employs an empty railcar.	C			1	220 If either E102 or E103 is present, then the other is required.	O	1	2	1	E1					
34-01	10	Name of Receiving Party For Empty Railcar From the bill of lading continuation page.	M	AN	2/30	1	220	O	1	2	1	E1	E101	459	M	AN	2/30
35	10	**E4 SEGMENT - City for Receiving Empty Railcar** SEGMENT CONDITION: Use when shipment employs an empty railcar.	C			1	230	O	1	2	1	E1					
35-01	10	City for Receiving Empty Railcar From the bill of lading continuation page.	M	AN	2/19	1	230	O	1	2	1	E1	E401	19	M	AN	2/30
35-02	10	State for Receiving Empty Railcar From the bill of lading continuation page. SOURCE: National Zip Code and Post Office Directory available from U.S. Postal Service National Information Data Center	M	ID	2/2	1	230	O	1	2	1	E1	E402	156	M	ID	2/2
36	10	**E5 SEGMENT - Routing SCAC** SEGMENT CONDITION: Use if SCAC is applicable.	C			1	240	O	13	2	1	E1					
36-01	10	Routing SCAC for Empty Railcar From the bill of lading continuation page. 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	240	O	13	2	1	E1	E501	140	M	ID	2/4

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		
36-02	10	Routing SCAC Sequence Number From the bill of lading continuation page. 1 - 1st Carrier after Origin Carrier 2 - 2nd Carrier after Origin Carrier 3 - 3rd Carrier after Origin Carrier 4 - 4th Carrier after Origin Carrier 5 - 5th Carrier after Origin Carrier	M	ID	1/1	1	240	O	13	2	1	E1	E502	133	M	ID	1/2
37	10	**L7 SEGMENT - Tariff Distance** SEGMENT CONDITION: Required for all modes except ocean. When used, there are different rules for CONUS and OCONUS mileages. This segment may be repeated up to two times (one for CONUS, the other for OCONUS).	C			1	270	O	30								
37-13	10	Tariff Distance (mileage) Mileage used for rating shipment.	M	N0	1/5	1	270	O	30				L713	294	O	N0	1/5
37-14	10	Distance (mileage) Qualifier M - Miles (Actual) *Use 'M' to denote CONUS mileage (used for ocean shipments only).* T - Tariff Miles *Use 'T' to denote OCONUS mileage.*	M	ID	1/1	1	270	O	30				L714	295	O	ID	1/1
38	10	**NTE SEGMENT - Change Notice** SEGMENT CONDITION: Use when Change Notice applies.	C			1	280	O	50								
							The NTE segment permits free-form information/data which, under ANSI X12 standard implementations, is not machine processable. The use of the NTE segment should therefore be avoided, if at all possible, in an automated environment.										
38-01	10	Change Notice Qualifier CHG - Change	M	ID	3/3	1	280	O	50				NTE01	363	O	ID	3/3
38-02	10	Change Notice Identifies the kind of change (correction) to the bill of lading. SOURCE: Reference Section 5.0 (DTEB Freight Bill of Lading Shipment Information Implementation Convention) for a description of the indicator code positions and an example of a populated indicator string.	M	AN	8/8	1	280	O	50				NTE02	352	M	AN	1/80
39	10	**NTE SEGMENT - Routing Instruction Note** SEGMENT CONDITION: Use when routing instruction note applies.	C			1	280	O	50								
							The NTE segment permits free-form information/data which, under ANSI X12 standard implementations, is not machine processable. The use of the NTE segment should therefore be avoided, if at all possible, in an automated environment.										

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		
39-01	10	Routing Instruction Note (RIN) Code Qualifier INT - General Order Instructions	M	ID	3/3	1	280	O	50				NTE01	363	O	ID	3/3
39-02	10	Routing Instruction Note (RIN) Code SOURCE: USTRANSCOM J5-PT	M	AN	3/3	1	280	O	50				NTE02	352	M	AN	1/80
40	10	**NTE SEGMENT - Load Use** SEGMENT CONDITION: Use for Defense Transportation Tracking System (DTTS) shipments.	C			1	280	O	50								
						The NTE segment permits free-form information/data which, under ANSI X12 standard implementations, is not machine processable. The use of the NTE segment should therefore be avoided, if at all possible, in an automated environment.											
40-01	10	Load Use Qualifier LOI - Loading Instructions	M	ID	3/3	1	280	O	50				NTE01	363	O	ID	3/3
40-02	10	Load Use Instructions EXCLUSIVE NONEXCLUSIVE	M	AN	9/12	1	280	O	50				NTE02	352	M	AN	1/80
41	10	**NTE SEGMENT - DoD Classification Instructions** SEGMENT CONDITION: Use for Defense Transportation Tracking System (DTTS) shipments.	C			1	280	O	50								
						The NTE segment permits free-form information/data which, under ANSI X12 standard implementations, is not machine processable. The use of the NTE segment should therefore be avoided, if at all possible, in an automated environment.											
41-01	10	DoD Classification Instructions Qualifier Use to denote the highest security classification of an item within the shipment (i.e. the highest classified Controlled Inventory Item Code (CIIC) within the shipment). CLR - Security Clearance Instructions *Use 'CLR' to denote Emergency Contact - Military Surface Deployment and Distribution Command (SDDC).*	M	ID	3/3	1	280	O	50				NTE01	363	O	ID	3/3
41-02	10	DoD Classification Instructions C - Confidential S - Secret U - Unclassified	M	AN	1/1	1	280	O	50				NTE02	352	M	AN	1/80
42	10	**NTE SEGMENT - Shipper Instructions** SEGMENT CONDITION: Use when additional shipper instructions apply for ocean shipments.	C			1	280	O	50								
						The NTE segment permits free-form information/data which, under ANSI X12 standard implementations, is not machine processable. The use of the NTE segment should therefore be avoided, if at all possible, in an automated environment.											
42-01	10	Shipper Instructions Code ADD - Additional Information *Use 'ADD' to denote Shipper Instructions to the Consignee or to the Carrier.*	M	ID	3/3	1	280	O	50				NTE01	363	O	ID	3/3

DoD INFORMATION						X12 SEGMENT INFORMATION							X12 ELEMENT INFORMATION				
Index	DG	Data Name Notes and Codes	DoD Recommended Attributes			Tabl	Pos	Req Des	Max Use	Lp Rpt	Lp Lvl	Lp ID	Ref Des	DE #	Attributes		
42-02	10	Shipper Instructions Enter text information from the paper bill of lading.	M	AN	1/80	1	280	O	50				NTE02	352	M	AN	1/80
43	60	**N7 SEGMENT - Primary Equipment Furnished** LOOP CONDITION: For ocean shipments, this information is needed to facilitate Customs clearance. If the bill of lading is for movements using motor, rail, or bulk fuel conveyances, DG 60 must appear. Use as many N7 loops as required to identify equipment furnished.	C			1	330	O	1	600	1	N7					
							If either N703 or N704 is present, then the other is required. If either N705 or N716 is present, then the other is required. If either N708 or N709 is present, then the other is required.										
43-01	60	Primary Equipment Initials For rail shipments, this data element is MANDATORY; it carries the equipment prefix used to describe railcars, trailers, and containers. For motor and air shipments, if the value in N702 is other than 'NONE', or the equipment initials are not available, use the SCAC. Primary equipment is that equipment ordered by the shipper from the carrier. That equipment type ordered, or its equivalent, is furnished by the carrier and used in the transportation of the shipment. The shipper pays only for the primary equipment ordered. For ocean shipments, use the initials on the container (never the carrier SCAC). ELEMENT CONDITION: For rail shipments, this data element is MANDATORY; it carries the equipment prefix used to describe railcars, trailers, and containers. SOURCE: IATA Unit Load Devices Manual available from International Air Transport Association	C	AN	1/4	1	330	O	1	600	1	N7	N701	206	O	AN	1/4
							N701 is mandatory for rail transactions.										
43-02	60	Primary Equipment Numbers For rail shipments, this data element carries the serial number of the railcars, trailers, and containers. For motor and air shipments, if specific equipment is not ordered, carry the word 'NONE' in this data element. [T_2 4/8]	M	AN	1/10	1	330	O	1	600	1	N7	N702	207	M	AN	1/10
43-03	60	Weight Capacity Primary Equipment Furnished Express in 1000 LB units. Entry may contain a decimal; if not, decimal is assumed at right-most point of the field.	C	N0	3/3	1	330	O	1	600	1	N7	N703	81	C	R	1/10
43-04	60	Weight Capacity Primary Equipment Furnished Qualifier ELEMENT CONDITION: Required if N705 is used. N - Actual Net Weight	C	ID	1/1	1	330	O	1	600	1	N7	N704	187	C	ID	1/2
43-08	60	Cube Capacity Primary Equipment Furnished ELEMENT CONDITION: Include if the carrier provides equipment different than that which was ordered, or if reporting the internal cube of a container.	C	R	1/8	1	330	O	1	600	1	N7	N708	183	C	R	1/8

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		
43-09	60	Cube Capacity Primary Equipment Furnished Qualifier ELEMENT CONDITION: This qualifier must appear if cube capacity carrier equipment furnished is used. E - Cubic Feet	C	ID	1/1	1	330	O	1	600	1	N7	N709	184	C	ID	1/1
43-13	60	Temperature Control Use to specify temperature setting for reefer shipments. For ocean shipments indicate minimum and maximum temperature.	C	AN	3/6	1	330	O	1	600	1	N7	N713	319	O	AN	3/6
43-15	60	Length Capacity Primary Equipment Furnished ELEMENT CONDITION: Include if the carrier provides equipment different than that which was ordered.	C	N0	4/5	1	330	O	1	600	1	N7	N715	567	O	N0	4/5
43-22	60	Type of Equipment Furnished SOURCE: Reference Section 6.0 of this IC for code values using applicable Air, Containers, Motor and TOFC (Dimensions are Outside Dimensions), Other Methods, Rail, and Water tables. Sample Values: QQ, QU, SS, TT	M	ID	4/4	1	330	O	1	600	1	N7	N722	24	O	ID	4/4
44	60	**EM SEGMENT - Date Primary Equipment Furnished** SEGMENT CONDITION: Use if equipment was furnished (for the current N7 loop).	C			1	331	O	1	600	1	N7					
							If EM02 is present, then EM01 is required. If EM04 is present, then EM03 is required.										
44-07	60	Date Enter date that equipment was furnished for the current N7 loop.	M	DT	8/8	1	331	O	1	600	1	N7	EM07	373	O	DT	8/8
							EM07 is the last inspection date for convention of safe container.										
45	60	**NA SEGMENT - Secondary Equipment Furnished** SEGMENT CONDITION: Required if use of secondary equipment applies.	C			1	335	O	30	600	1	N7					
							If NA01 is present, then NA02 is required.										
45-03	60	Secondary Equipment Initials For rail Trailer on Flatcar/Container on Flatcar (TOFC/COFC) shipments, this data element carries the equipment initials of the flatcar used to convey the trailer/container (primary equipment ordered). When the shipper orders a trailer/container, the carrier supplies a flatcar to convey the trailer/container (primary equipment). The trailer is considered secondary equipment. The shipper incurs no cost for the use of secondary equipment. SOURCE: IATA Unit Load Devices Manual available from International Air Transport Association	M	AN	1/4	1	335	O	30	600	1	N7	NA03	206	M	AN	1/4
							NA03 contains the equipment initial of an associated shipment and is required by rail. If unknown, use NONZ for van or NONU for container.										

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		
45-04	60	Secondary Equipment Numbers For rail Trailer on Flatcar/Container on Flatcar (TOFC/COFC) shipments, this data element carries the equipment serial number of the flatcar used to convey the trailer/container (primary equipment ordered). When the shipper orders a trailer/container, the carrier supplies a flatcar to convey the trailer/container (primary equipment). The trailer is considered secondary equipment. The shipper incurs no cost for the use of secondary equipment. If a number is not available, send value 'xxxx' per shipper's instructions.	M	AN	1/10	1	335 NA04 contains the equipment number of an associated shipment.	O	30	600	1	N7	NA04	207	M	AN	1/10
45-05	60	Cross Reference Type Code ELEMENT CONDITION: Use to further identify secondary equipment when shipment is by rail. F - Conveying Flat Car	C	ID	1/1	1	335	O	30	600	1	N7	NA05	231	O	ID	1/1
46	60	**M7 SEGMENT - Seals** SEGMENT CONDITION: Required if seals are applied to the primary equipment.	C			1	340	O	5	600	1	N7					
46-01	60	Seal Number Additional seal numbers should be carried in M702, M703, and M704.	M	AN	2/15	1	340	O	5	600	1	N7	M701	225	M	AN	2/15
46-02	60	Additional Seal Number	C	AN	2/15	1	340	O	5	600	1	N7	M702	225	O	AN	2/15
46-03	60	Additional Seal Number	C	AN	2/15	1	340	O	5	600	1	N7	M703	225	O	AN	2/15
46-04	60	Additional Seal Number	C	AN	2/15	1	340	O	5	600	1	N7	M704	225	O	AN	2/15
46-05	60	Seal Numbers Applied By Qualifier CA - Carrier SH - Shipper	M	ID	2/2	1	340 M705 indicates the name of the organization which applied the seal(s).	O	5	600	1	N7	M705	98	O	ID	2/3
47	60	**N5 SEGMENT - Primary Equipment Ordered** SEGMENT CONDITION: Required if primary equipment was ordered.	C			1	350 If either N507 or N508 is present, then the other is required.	O	1	600	1	N7					
47-01	60	Length Capacity Primary Equipment Ordered Format is FFFII where 8000 is 80 ft.	C	N0	4/5	1	350	O	1	600	1	N7	N501	567	O	N0	4/5
47-02	60	Weight Capacity Primary Equipment Ordered	C	N0	2/3	1	350	O	1	600	1	N7	N502	233	O	N0	2/3
47-03	60	Cubic Capacity Primary Equipment Ordered	C	N0	2/4	1	350	O	1	600	1	N7	N503	203	O	N0	2/4

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		
47-04	60	Type of Equipment Ordered SOURCE: Reference Section 6.0 of this IC for code values using applicable Air, Containers, Motor and TOFC (Dimensions are Outside Dimensions), Other Methods, Rail, and Water tables. Sample Values: QQ, QU, SS, TT	M	ID	4/4	1	350	O	1	600	1	N7	N504	301	O	ID	1/4
48	60	**REF SEGMENT - Tractor Number** SEGMENT CONDITION: Required if the Defense Transportation Tracking System (DTTS) is required.	C			1	360	O	5	600	1	N7					
							At least one of REF02 or REF03 is required.										
48-01	60	Tractor Number Qualifier EQ - Equipment Number	M	ID	2/2	1	360	O	5	600	1	N7	REF01	128	M	ID	2/3
48-02	60	Tractor Number The tractor number carried in this data element is the power unit for the trailer described in the N7 segment of the same equipment loop. This data element is required only for tracking shipments monitored by DTTS.	M	AN	1/10	1	360	O	5	600	1	N7	REF02	127	C	AN	1/30
49	70	**N1 SEGMENT - Transportation Company Tendered To (CA)** LOOP CONDITION: DG 70 is required if the Defense Transportation Tracking System (DTTS) is required.	C			1	390	O	1	12	1	N1					
							At least one of N102 or N103 is required. If either N103 or N104 is present, then the other is required.										
49-01	70	Transportation Company Tendered To (CA) Qualifier CA - Carrier	M	ID	2/2	1	390	O	1	12	1	N1	N101	98	M	ID	2/3
49-02	70	Transportation Company Tendered To Name (CA)	M	AN	1/35	1	390	O	1	12	1	N1	N102	93	C	AN	1/60
50	70	**PER SEGMENT - Transportation Company Dispatcher Contact** SEGMENT CONDITION: Required if the Defense Transportation Tracking System (DTTS) is required.	C			1	440	O	3	12	1	N1					
							If either PER03 or PER04 is present, then the other is required. If either PER05 or PER06 is present, then the other is required. If either PER07 or PER08 is present, then the other is required.										
50-01	70	Transportation Company Dispatcher Contact Qualifier EM - Emergency Contact	M	ID	2/2	1	440	O	3	12	1	N1	PER01	366	M	ID	2/2
50-03	70	Transportation Company Dispatcher Telephone Number Qualifier TE - Telephone	M	ID	2/2	1	440	O	3	12	1	N1	PER03	365	C	ID	2/2
50-04	70	Transportation Company Dispatcher Telephone Number	M	AN	7/21	1	440	O	3	12	1	N1	PER04	364	C	AN	1/80

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		
51	71	**N1 SEGMENT - Destination (ST)**	M			1	390	O	1	12	1	N1					
							At least one of N102 or N103 is required. If either N103 or N104 is present, then the other is required.										
51-01	71	Destination Name (ST) Qualifier This qualifier identifies name and address information of the carrier's delivery location. ST - Ship To	M	ID	2/2	1	390	O	1	12	1	N1	N101	98	M	ID	2/3
51-02	71	Destination Name (ST)	C	AN	1/35	1	390	O	1	12	1	N1	N102	93	C	AN	1/60
51-03	71	Destination DoDAAC/CAGE/MAPAC Qualifier Do not use CAGE code for ocean shipments. 10 - Department of Defense Activity Address Code (DODAAC) 33 - Commercial and Government Entity (CAGE) A2 - Military Assistance Program Address Code (MAPAC)	M	ID	2/2	1	390	O	1	12	1	N1	N103	66	C	ID	1/2
51-04	71	Destination DoDAAC/CAGE/MAPAC If DoDAAC/CAGE/MAPAC is unavailable, then N104 = 'XXXXXX' and the complete clear text name and address of the destination is required.	M	AN	5/6	1	390	O	1	12	1	N1	N104	67	C	AN	2/80
							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.										
52	71	**N2 SEGMENT - Destination (ST)** SEGMENT CONDITION: Use if additional destination name applies.	C			1	400	O	2	12	1	N1					
52-01	71	Additional Name (ST)	M	AN	1/35	1	400	O	2	12	1	N1	N201	93	M	AN	1/60
53	71	**N3 SEGMENT - Destination (ST)** SEGMENT CONDITION: Use if destination street address applies.	C			1	410	O	2	12	1	N1					
53-01	71	Street (ST)	M	AN	1/35	1	410	O	2	12	1	N1	N301	166	M	AN	1/55
53-02	71	Additional Addressing Information	C	AN	1/35	1	410	O	2	12	1	N1	N302	166	O	AN	1/55
54	71	**N4 SEGMENT - Destination (ST)** SEGMENT CONDITION: Use if destination city, state, and ZIP Code apply.	C			1	420	O	1	12	1	N1					
							If N406 is present, then N405 is required.										
54-01	71	City (ST) ELEMENT CONDITION: Field is MANDATORY if rail shipment.	C	AN	2/19	1	420	O	1	12	1	N1	N401	19	O	AN	2/30
							A combination of either N401 through N404, or N405 and N406 may be adequate to specify a location.										

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		
54-02	71	State Code (ST) ELEMENT CONDITION: Field is MANDATORY if rail shipment. SOURCE: National Zip Code and Post Office Directory available from U.S. Postal Service National Information Data Center	C	ID	2/2	1	420	O	1	12	1	N1	N402	156	O	ID	2/2
							N402 is required only if city name (N401) is in the U.S. or Canada.										
54-03	71	ZIP/Postal Code (ST) There should be no special characters, punctuation, or blanks. ELEMENT CONDITION: Field is MANDATORY if rail shipment. SOURCE: National ZIP Code and Post Office Directory, Publication 65 available from U.S Postal Service; The USPS Domestic Mail Manual available from New Orders Superintendent of Documents	C	ID	3/15	1	420	O	1	12	1	N1	N403	116	O	ID	3/15
54-04	71	Country Code ELEMENT CONDITION: If destination is OCONUS, country code is required. SOURCE: Code for Representation of Names of Countries, Geopolitical Entities, Names, and Codes (GENC), is represented in the National System for Geospatial Intelligence (NSG) GENC Registry and mirrored at http://www.transcom.mil/dteb/files/refdata/V_CTRY_DOD.htm. Codes for Representation of Currencies and Funds, ISO 4217, is available from American National Standards Institute.	C	ID	2/3	1	420	O	1	12	1	N1	N404	26	O	ID	2/3
54-05	71	Destination SPLC (ST) Qualifier ELEMENT CONDITION: SPLC is required for CONUS, but not OCONUS, shipments. SOURCE: Defense Traffic Management Regulation (DTMR), Appendix I - Government Bill of Lading Codes available from Military Traffic Management Command (MTMC) SL - U.S. SPLC	C	ID	2/2	1	420	O	1	12	1	N1	N405	309	C	ID	1/2
54-06	71	Destination SPLC (ST) ELEMENT CONDITION: Nine-digit SPLCs are required for costing. SPLC is provided for CONUS shipments but not OCONUS.	C	AN	9/9	1	420	O	1	12	1	N1	N406	310	O	AN	1/30
55	71	**PER SEGMENT - DTTS Destination (ST)** SEGMENT CONDITION: Required if the Defense Transportation Tracking System (DTTS) is required.	C			1	440	O	3	12	1	N1					
							If either PER03 or PER04 is present, then the other is required. If either PER05 or PER06 is present, then the other is required. If either PER07 or PER08 is present, then the other is required.										
55-01	71	Destination (ST) Contact Qualifier EM - Emergency Contact	M	ID	2/2	1	440	O	3	12	1	N1	PER01	366	M	ID	2/2
55-03	71	Destination (ST) Phone Number Qualifier AU - Defense Switched Network TE - Telephone	M	ID	2/2	1	440	O	3	12	1	N1	PER03	365	C	ID	2/2

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		
55-04	71	Destination (ST) Contact Phone Number Both commercial and DSN phone numbers are required for ammunition shipments.	M	AN	7/21	1	440	O	3	12	1	N1	PER04	364	C	AN	1/80
56	72	**N1 SEGMENT - Origin (SF)**	M			1	390	O	1	12	1	N1					
							At least one of N102 or N103 is required. If either N103 or N104 is present, then the other is required.										
56-01	72	Origin Name (SF) Qualifier This qualifier identifies the name and address information of the carrier's pickup location. SF - Ship From	M	ID	2/2	1	390	O	1	12	1	N1	N101	98	M	ID	2/3
56-02	72	Origin Name (SF) ELEMENT CONDITION: If issuing GBLOC is unavailable (N406='IOOI') or origin DoDAAC/CAGE/MAPAC is unavailable (N104='XXXXXX'), then the clear text name of the origin is required.	C	AN	1/35	1	390	O	1	12	1	N1	N102	93	C	AN	1/60
56-03	72	Origin DoDAAC/CAGE/MAPAC Qualifier Do not use CAGE code for ocean shipments. 10 - Department of Defense Activity Address Code (DODAAC) 33 - Commercial and Government Entity (CAGE) A2 - Military Assistance Program Address Code (MAPAC)	M	ID	2/2	1	390	O	1	12	1	N1	N103	66	C	ID	1/2
56-04	72	Origin DoDAAC/CAGE/MAPAC If origin DoDAAC/CAGE/MAPAC is unavailable, then N104 = 'XXXXXX' and the complete clear text name and address of the origin is required in N102.	M	AN	5/6	1	390	O	1	12	1	N1	N104	67	C	AN	2/80
							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.										
57	72	**N2 SEGMENT - Origin (SF)** SEGMENT CONDITION: Use if origin additional name applies.	C			1	400	O	2	12	1	N1					
57-01	72	Additional Name (SF)	M	AN	1/35	1	400	O	2	12	1	N1	N201	93	M	AN	1/60
58	72	**N3 SEGMENT - Origin (SF)** SEGMENT CONDITION: Use if origin street address applies.	C			1	410	O	2	12	1	N1					
58-01	72	Street (SF)	M	AN	1/35	1	410	O	2	12	1	N1	N301	166	M	AN	1/55
58-02	72	Additional Addressing Information	C	AN	1/35	1	410	O	2	12	1	N1	N302	166	O	AN	1/55

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		
59	72	**N4 SEGMENT - Origin (SF)** SEGMENT CONDITION: Use if origin city, state, and ZIP Code apply.	C			1	420 If N406 is present, then N405 is required.	O	1	12	1	N1					
59-01	72	City (SF) ELEMENT CONDITION: Field is MANDATORY if rail shipment.	C	AN	2/19	1	420 A combination of either N401 through N404, or N405 and N406 may be adequate to specify a location.	O	1	12	1	N1	N401	19	O	AN	2/30
59-02	72	State (SF) ELEMENT CONDITION: Field is MANDATORY if rail shipment. Also use for province if shipment is Canadian. SOURCE: National Zip Code and Post Office Directory available from U.S. Postal Service National Information Data Center	C	I	2/2	1	420 N402 is required only if city name (N401) is in the U.S. or Canada.	O	1	12	1	N1	N402	156	O	ID	2/2
59-03	72	ZIP/Postal Code (SF) Field is MANDATORY if rail shipment. There should be no special characters, punctuation, or blanks. ELEMENT CONDITION: Field is MANDATORY if rail shipment. SOURCE: National ZIP Code and Post Office Directory, Publication 65 available from U.S Postal Service; The USPS Domestic Mail Manual available from New Orders Superintendent of Documents	C	ID	3/15	1	420	O	1	12	1	N1	N403	116	O	ID	3/15
59-04	72	Country Code (SF) ELEMENT CONDITION: If origin is OCONUS, country code is required. SOURCE: Code for Representation of Names of Countries, Geopolitical Entities, Names, and Codes (GENC), is represented in the National System for Geospatial Intelligence (NSG) GENC Registry and mirrored at http://www.transcom.mil/dteb/files/refdata/V_CTRY_DOD.htm. Codes for Representation of Currencies and Funds, ISO 4217, is available from American National Standards Institute.	C	ID	2/3	1	420	O	1	12	1	N1	N404	26	O	ID	2/3
59-05	72	Shipping Point SPLC (SF) Qualifier ELEMENT CONDITION: Required if N406 is used. SOURCE: Defense Traffic Management Regulation (DTMR), Appendix I - Government Bill of Lading Codes available from Military Traffic Management Command (MTMC) SL - U.S. SPLC	C	ID	2/2	1	420	O	1	12	1	N1	N405	309	C	ID	1/2
59-06	72	Shipping Point SPLC (SF) Nine-digit SPLCs are required for costing. SPLC is provided for CONUS shipments but not OCONUS.	C	AN	9/9	1	420	O	1	12	1	N1	N406	310	O	AN	1/30
60	72	**PER SEGMENT - DTTS Origin (SF)** SEGMENT CONDITION: Required if the Defense Transportation Tracking System (DTTS) is required.	C			1	440 If either PER03 or PER04 is present, then the other is required. If either PER05 or PER06 is present, then the other is required. If either PER07 or PER08 is present, then the other is required.	O	3	12	1	N1					

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		
60-01	72	Origin (SF) Contact Qualifier EM - Emergency Contact	M	ID	2/2	1	440	O	3	12	1	N1	PER01	366	M	ID	2/2
60-03	72	Origin (SF) Phone Number Qualifier AU - Defense Switched Network TE - Telephone	M	ID	2/2	1	440	O	3	12	1	N1	PER03	365	C	ID	2/2
60-04	72	Origin (SF) Contact Phone Number Both commercial and DSN phone numbers are required for ammunition shipments.	M	AN	7/21	1	440	O	3	12	1	N1	PER04	364	C	AN	1/80
61	73	**N1 SEGMENT - Consignee (CN)**	M			1	390	O	1	12	1	N1					
							At least one of N102 or N103 is required. If either N103 or N104 is present, then the other is required.										
61-01	73	Consignee (CN) Name Qualifier This qualifier identifies the installation transportation office responsible for the shipment at the final destination. CN - Consignee	M	ID	2/2	1	390	O	1	12	1	N1	N101	98	M	ID	2/3
61-02	73	Consignee Name (CN) ELEMENT CONDITION: If consignee GBLOC is unavailable (N406='IOOI') or consignee DoDAAC/CAGE/MAPAC is unavailable (N104='XXXXXX'), then the clear text name of the consignee is required.	C	AN	1/35	1	390	O	1	12	1	N1	N102	93	C	AN	1/60
61-03	73	Consignee DoDAAC/CAGE/MAPAC Qualifier Do not use CAGE code for ocean shipments. 10 - Department of Defense Activity Address Code (DODAAC) 33 - Commercial and Government Entity (CAGE) A2 - Military Assistance Program Address Code (MAPAC)	M	ID	2/2	1	390	O	1	12	1	N1	N103	66	C	ID	1/2
61-04	73	Consignee DoDAAC/CAGE/MAPAC If DoDAAC/CAGE/MAPAC is unavailable, then N104 = 'XXXXXX' and the complete clear text name and address of the consignee is required in N102.	M	AN	5/6	1	390	O	1	12	1	N1	N104	67	C	AN	2/80
							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.										
62	73	**N2 SEGMENT - Consignee (CN)** SEGMENT CONDITION: Use if consignee additional name applies.	C			1	400	O	2	12	1	N1					
62-01	73	Additional Name (CN)	M	AN	1/35	1	400	O	2	12	1	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		
63	73	**N3 SEGMENT - Consignee (CN)** SEGMENT CONDITION: Use if consignee street address applies.	C			1	410	O	2	12	1	N1					
63-01	73	Street (CN)	M	AN	1/35	1	410	O	2	12	1	N1	N301	166	M	AN	1/55
63-02	73	Additional Addressing Information	C	AN	1/35	1	410	O	2	12	1	N1	N302	166	O	AN	1/55
64	73	**N4 SEGMENT - Consignee (CN)** SEGMENT CONDITION: Required for all shipments except ocean. Provides required data when shipment is by rail or when consignee is OCONUS. May be used also when consignee city, state, and ZIP Code apply.	C			1	420 If N406 is present, then N405 is required.	O	1	12	1	N1					
64-01	73	City (CN) ELEMENT CONDITION: Field is MANDATORY if rail shipment.	C	AN	2/19	1	420 A combination of either N401 through N404, or N405 and N406 may be adequate to specify a location.	O	1	12	1	N1	N401	19	O	AN	2/30
64-02	73	State (CN) ELEMENT CONDITION: Field is MANDATORY if rail shipment. Also use for province if shipment is Canadian. SOURCE: National Zip Code and Post Office Directory available from U.S. Postal Service National Information Data Center	C	ID	2/2	1	420 N402 is required only if city name (N401) is in the U.S. or Canada.	O	1	12	1	N1	N402	156	O	ID	2/2
64-03	73	ZIP Code/Postal Code (CN) There should be no special characters, punctuation, or blanks. ELEMENT CONDITION: Field is MANDATORY if rail shipment. SOURCE: National ZIP Code and Post Office Directory, Publication 65 available from U.S Postal Service; The USPS Domestic Mail Manual available from New Orders Superintendent of Documents	C	ID	3/15	1	420	O	1	12	1	N1	N403	116	O	ID	3/15
64-04	73	Country Code (CN) ELEMENT CONDITION: If consignee is OCONUS, country code is required. SOURCE: Code for Representation of Names of Countries, Geopolitical Entities, Names, and Codes (GENC), is represented in the National System for Geospatial Intelligence (NSG) GENC Registry and mirrored at http://www.transcom.mil/dteb/files/refdata/V_CTRY_DOD.htm. Codes for Representation of Currencies and Funds, ISO 4217, is available from American National Standards Institute.	C	ID	2/3	1	420	O	1	12	1	N1	N404	26	O	ID	2/3

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		
64-05	73	Consignee (CN) GBLOC Qualifier ELEMENT CONDITION: Required for all shipments except by ocean. SOURCE: Defense Traffic Management Regulation (DTMR), Appendix I - Government Bill of Lading Codes available from Military Traffic Management Command (MTMC) BL - Government Bill of Lading Office Code (GBLOC)	C	ID	2/2	1	420	O	1	12	1	N1	N405	309	C	ID	1/2
64-06	73	Consignee (CN) GBLOC ELEMENT CONDITION: If GBLOC is unavailable enter value 'IOOI'. Then, the clear text name of the consignee is required in N102.	C	AN	4/4	1	420	O	1	12	1	N1	N406	310	O	AN	1/30
65	74	**N1 SEGMENT - Shipper (SH)**	M			1	390	O	1	12	1	N1					
							At least one of N102 or N103 is required. If either N103 or N104 is present, then the other is required.										
65-01	74	Shipper Name (SH) Qualifier This qualifier identifies the installation transportation office responsible for the shipment at origin. SH - Shipper	M	ID	2/2	1	390	O	1	12	1	N1	N101	98	M	ID	2/3
65-02	74	Shipper Name (SH) ELEMENT CONDITION: If shipper DoDAAC/CAGE/MAPAC is unavailable (N104='XXXXXX'), then the clear text name of the shipper is required.	C	AN	1/35	1	390	O	1	12	1	N1	N102	93	C	AN	1/60
65-03	74	Shipper DoDAAC/CAGE/MAPAC Qualifier (SH) Do not use CAGE code for ocean shipments. 10 - Department of Defense Activity Address Code (DODAAC) 33 - Commercial and Government Entity (CAGE) A2 - Military Assistance Program Address Code (MAPAC)	M	ID	2/2	1	390	O	1	12	1	N1	N103	66	C	ID	1/2
65-04	74	Shipper DoDAAC/CAGE/MAPAC (SH) If shipper DoDAAC/CAGE/MAPAC is unavailable, then N104 = 'XXXXXX' and the complete clear text name and address of the shipper is required.	M	AN	5/6	1	390	O	1	12	1	N1	N104	67	C	AN	2/80
							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.										
66	74	**N2 SEGMENT - Shipper (SH)** SEGMENT CONDITION: Use if shipper additional name applies.	C			1	400	O	2	12	1	N1					
66-01	74	Additional Name (SH)	M	AN	1/35	1	400	O	2	12	1	N1	N201	93	M	AN	1/60
67	74	**N3 SEGMENT - Shipper (SH)** SEGMENT CONDITION: Use if shipper street address applies.	C			1	410	O	2	12	1	N1					

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		
67-01	74	Street (SH)	M	AN	1/35	1	410	O	2	12	1	N1	N301	166	M	AN	1/55
67-02	74	Additional Addressing Information	C	AN	1/35	1	410	O	2	12	1	N1	N302	166	O	AN	1/55
68	74	**N4 SEGMENT - Shipper (SH)** SEGMENT CONDITION: Use if shipper city, state, and ZIP Code apply.	C			1	420	O	1	12	1	N1					
							If N406 is present, then N405 is required.										
68-01	74	City (SH) ELEMENT CONDITION: Field is required for rail shipments.	C	AN	2/19	1	420	O	1	12	1	N1	N401	19	O	AN	2/30
							A combination of either N401 through N404, or N405 and N406 may be adequate to specify a location.										
68-02	74	State (SH) ELEMENT CONDITION: Field is required for if rail shipments. Also use for province if shipment is Canadian. SOURCE: National Zip Code and Post Office Directory available from U.S. Postal Service National Information Data Center	C	ID	2/2	1	420	O	1	12	1	N1	N402	156	O	ID	2/2
							N402 is required only if city name (N401) is in the U.S. or Canada.										
68-03	74	ZIP Code/Postal Code (SH) There should be no special characters, punctuation, or blanks. ELEMENT CONDITION: Field is required for rail shipments. SOURCE: National ZIP Code and Post Office Directory, Publication 65 available from U.S Postal Service; The USPS Domestic Mail Manual available from New Orders Superintendent of Documents	C	ID	3/15	1	420	O	1	12	1	N1	N403	116	O	ID	3/15
68-04	74	Country Code (SH) ELEMENT CONDITION: If shipper is OCONUS, country code is required. SOURCE: Code for Representation of Names of Countries, Geopolitical Entities, Names, and Codes (GENC), is represented in the National System for Geospatial Intelligence (NSG) GENC Registry and mirrored at http://www.transcom.mil/dteb/files/refdata/V_CTRY_DOD.htm. Codes for Representation of Currencies and Funds, ISO 4217, is available from American National Standards Institute.	C	ID	2/3	1	420	O	1	12	1	N1	N404	26	O	ID	2/3
69	75	**N1 SEGMENT - Diversion/Reconsignment To (TT)** LOOP CONDITION: Required if shipment requires diversion/reconsignment destination.	C			1	390	O	1	12	1	N1					
							At least one of N102 or N103 is required. If either N103 or N104 is present, then the other is required.										
69-01	75	Diversion/Reconsignment (TT) To Qualifier Location that shipment is diverted/reconsigned to. TT - Transfer To	M	ID	2/2	1	390	O	1	12	1	N1	N101	98	M	ID	2/3
69-02	75	Diversion/Reconsignment (TT) To City Carry the city name that pertains to the SPLC.	M	AN	2/19	1	390	O	1	12	1	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		
70	75	**N4 SEGMENT - Diversion/Reconsignment To Country Code (TT)** SEGMENT CONDITION: If shipment is CONUS, SPLC is required. If OCONUS, country code is required.	C			1	420	O	1	12	1	N1					
							If N406 is present, then N405 is required.										
70-04	75	Country Code ELEMENT CONDITION: If diversion/reconsignment is OCONUS, country code is required. SOURCE: Code for Representation of Names of Countries, Geopolitical Entities, Names, and Codes (GENC), is represented in the National System for Geospatial Intelligence (NSG) GENC Registry and mirrored at http://www.transcom.mil/dteb/files/refdata/V_CTRY_DOD.htm. Codes for Representation of Currencies and Funds, ISO 4217, is available from American National Standards Institute.	C	ID	2/3	1	420	O	1	12	1	N1	N404	26	O	ID	2/3
70-05	75	Diversion/Reconsignment (TT) To SPLC Qualifier Required if N406 is used. SL - U.S. SPLC	C	ID	2/2	1	420	O	1	12	1	N1	N405	309	C	ID	1/2
70-06	75	Diversion/Reconsignment (TT) To SPLC	C	AN	9/9	1	420	O	1	12	1	N1	N406	310	O	AN	1/30
71	76	**N1 SEGMENT - Diversion/Reconsignment From (T4)** LOOP CONDITION: DG 76 required if shipment requires diversion/reconsignment destination.	C			1	390	O	1	12	1	N1					
							At least one of N102 or N103 is required. If either N103 or N104 is present, then the other is required.										
71-01	76	Diversion/Reconsignment (T4) From Qualifier T4 - Transfer Point	M	ID	2/2	1	390	O	1	12	1	N1	N101	98	M	ID	2/3
71-02	76	Diversion/Reconsignment (T4) From Location that shipment was diverted/reconsigned from. Carry the city name that pertains to the SPLC.	M	AN	1/19	1	390	O	1	12	1	N1	N102	93	C	AN	1/60
72	76	**N4 SEGMENT - Diversion/Reconsignment (T4)** SEGMENT CONDITION: Required if diversion/reconsignment SPLC applies.	C			1	420	O	1	12	1	N1					
							If N406 is present, then N405 is required.										
72-05	76	Diversion/Reconsignment (T4) From SPLC Qualifier SOURCE: Defense Traffic Management Regulation (DTMR), Appendix I - Government Bill of Lading Codes available from Military Traffic Management Command (MTMC) SL - U.S. SPLC	M	ID	2/2	1	420	O	1	12	1	N1	N405	309	C	ID	1/2
72-06	76	Diversion/Reconsignment (T4) From SPLC	M	AN	9/9	1	420	O	1	12	1	N1	N406	310	O	AN	1/30
73	77	**N1 SEGMENT - Bill Charges To (PO)**	M			1	390	O	1	12	1	N1					
							At least one of N102 or N103 is required. If either N103 or N104 is present, then the other is required.										

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		
73-01	77	Bill Charges To (PO) Qualifier PO - Party to Receive Invoice for Goods or Services	M	ID	2/2	1	390	O	1	12	1	N1	N101	98	M	ID	2/3
73-02	77	Bill Charges To (PO)	C	AN	1/35	1	390	O	1	12	1	N1	N102	93	C	AN	1/60
73-03	77	Bill Charges To (PO) DoDAAC/CAGE/MAPAC Qualifier Do not use CAGE code for ocean shipments. ELEMENT CONDITION: Required if N104 is used. 10 - Department of Defense Activity Address Code (DODAAC) 33 - Commercial and Government Entity (CAGE) A2 - Military Assistance Program Address Code (MAPAC)	C	ID	2/2	1	390	O	1	12	1	N1	N103	66	C	ID	1/2
73-04	77	Bill Charges To (PO) DoDAAC/CAGE/MAPAC	C	AN	5/6	1	390	O	1	12	1	N1	N104	67	C	AN	2/80
							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.										
74	77	**N2 SEGMENT - Bill Charges To (PO)** SEGMENT CONDITION: Use if additional name is required for party to whom charges are billed. If available provide additional name to accommodate trading partners that cannot identify activities by DoDAAC/CAGE/MAPAC.	C			1	400	O	2	12	1	N1					
74-01	77	Additional Name (PO)	M	AN	1/35	1	400	O	2	12	1	N1	N201	93	M	AN	1/60
75	77	**N3 SEGMENT - Bill Charges To (PO)** SEGMENT CONDITION: Use if street address is required for party to whom charges are billed. f available provide street address to accommodate trading partners that cannot identify activities by DoDAAC/CAGE/MAPAC.	C			1	410	O	2	12	1	N1					
75-01	77	Street (PO)	M	AN	1/35	1	410	O	2	12	1	N1	N301	166	M	AN	1/55
75-02	77	Additional Addressing Information	C	AN	1/35	1	410	O	2	12	1	N1	N302	166	O	AN	1/55
76	77	**N4 SEGMENT - Bill Charges To (PO)** SEGMENT CONDITION: Use if city is required for party to whom charges are billed. If available provide city, state, and ZIP to accommodate trading partners that cannot identify activities by DoDAAC/CAGE/MAPAC.	C			1	420	O	1	12	1	N1					
							If N406 is present, then N405 is required.										
76-01	77	City (PO)	C	AN	2/19	1	420	O	1	12	1	N1	N401	19	O	AN	2/30
							A combination of either N401 through N404, or N405 and N406 may be adequate to specify a location.										

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		
76-02	77	State (PO) SOURCE: National Zip Code and Post Office Directory available from U.S. Postal Service National Information Data Center	C	ID	2/2	1	420 N402 is required only if city name (N401) is in the U.S. or Canada.	O	1	12	1	N1	N402	156	O	ID	2/2
76-03	77	ZIP Code/Postal Code (PO) SOURCE: National ZIP Code and Post Office Directory, Publication 65 available from U.S Postal Service; The USPS Domestic Mail Manual available from New Orders Superintendent of Documents	C	ID	3/15	1	420	O	1	12	1	N1	N403	116	O	ID	3/15
77	78	**N1 SEGMENT - Issuing Office (IU)**	M			1	390 At least one of N102 or N103 is required. If either N103 or N104 is present, then the other is required.	O	1	12	1	N1					
77-01	78	Issuing Office (IU) Name Qualifier IU - Issuer	M	ID	2/2	1	390	O	1	12	1	N1	N101	98	M	ID	2/3
77-02	78	Issuing Office (IU) Name	M	AN	1/35	1	390	O	1	12	1	N1	N102	93	C	AN	1/60
78	78	**N2 SEGMENT - Issuing Office (IU)** SEGMENT CONDITION: Use if additional name is required for issuing office.	C			1	400	O	2	12	1	N1					
78-01	78	Additional Name (IU)	M	AN	1/35	1	400	O	2	12	1	N1	N201	93	M	AN	1/60
79	78	**N3 SEGMENT - Issuing Office (IU)** SEGMENT CONDITION: Use if street address is required for issuing office.	C			1	410	O	2	12	1	N1					
79-01	78	Street (IU)	M	AN	1/35	1	410	O	2	12	1	N1	N301	166	M	AN	1/55
79-02	78	Additional Addressing Information	C	AN	1/35	1	410	O	2	12	1	N1	N302	166	O	AN	1/55
80	78	**N4 SEGMENT - Issuing Office (IU)** SEGMENT CONDITION: Use if Issuing Office (IU) city, state, and ZIP Code apply.	C			1	420 If N406 is present, then N405 is required.	O	1	12	1	N1					
80-01	78	City (IU)	C	AN	2/19	1	420 A combination of either N401 through N404, or N405 and N406 may be adequate to specify a location.	O	1	12	1	N1	N401	19	O	AN	2/30
80-02	78	State (IU) SOURCE: National Zip Code and Post Office Directory available from U.S. Postal Service National Information Data Center	C	ID	2/2	1	420 N402 is required only if city name (N401) is in the U.S. or Canada.	O	1	12	1	N1	N402	156	O	ID	2/2

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		
80-03	78	ZIP Code/Postal Code (IU) 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	AN	3/15	1	420	O	1	12	1	N1	N403	116	O	ID	3/15
80-05	78	Issuing Office (IU) GBLOC Qualifier SOURCE: Defense Traffic Management Regulation (DTMR), Appendix I - Government Bill of Lading Codes available from Military Traffic Management Command (MTMC) BL - Government Bill of Lading Office Code (GBLOC)	M	ID	2/2	1	420	O	1	12	1	N1	N405	309	C	ID	1/2
80-06	78	Issuing Office (IU) GBLOC This element must contain a valid GBLOC. Do not use 'IOOI'.	M	AN	4/4	1	420	O	1	12	1	N1	N406	310	O	AN	1/30
81	78	**PER SEGMENT - Name of Issuing Officer (IU)** SEGMENT CONDITION: Use if name of issuing officer is required.	C			1	440	O	3	12	1	N1					
							If either PER03 or PER04 is present, then the other is required. If either PER05 or PER06 is present, then the other is required. If either PER07 or PER08 is present, then the other is required.										
81-01	78	Name of Issuing Officer Qualifier IO - Issuing Officer	M	ID	2/2	1	440	O	3	12	1	N1	PER01	366	M	ID	2/2
81-02	78	Name of Issuing Officer	M	AN	1/35	1	440	O	3	12	1	N1	PER02	93	O	AN	1/60
82	79	**N1 SEGMENT - FOB Point (KX)** LOOP CONDITION: Use if FOB point applies.	C			1	390	O	1	12	1	N1					
							At least one of N102 or N103 is required. If either N103 or N104 is present, then the other is required.										
82-01	79	FOB Point (KX) Qualifier KX - Free on Board Point	M	ID	2/2	1	390	O	1	12	1	N1	N101	98	M	ID	2/3
82-02	79	FOB Point (KX) Carry actual FOB point name in this data element.	M	AN	1/35	1	390	O	1	12	1	N1	N102	93	C	AN	1/60
83	79	**N4 SEGMENT - FOB Point** SEGMENT CONDITION: Use if FOB point applies.	C			1	420	O	1	12	1	N1					
							If N406 is present, then N405 is required.										
83-01	79	FOB Point (City) Named In Contract	C	AN	2/19	1	420	O	1	12	1	N1	N401	19	O	AN	2/30
							A combination of either N401 through N404, or N405 and N406 may be adequate to specify a location.										
83-02	79	FOB Point (State) Named In Contract SOURCE: National Zip Code and Post Office Directory available from U.S. Postal Service National Information Data Center	C	ID	2/2	1	420	O	1	12	1	N1	N402	156	O	ID	2/2
							N402 is required only if city name (N401) is in the U.S. or Canada.										

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		
83-05	79	FOB SPLC Qualifier ELEMENT CONDITION: Required if N406 is used. SOURCE: Defense Traffic Management Regulation (DTMR), Appendix I - Government Bill of Lading Codes available from Military Traffic Management Command (MTMC) SL - U.S. SPLC	C	ID	1/2	1	420	O	1	12	1	N1	N405	309	C	ID	1/2
83-06	79	FOB SPLC	C	AN	9/9	1	420	O	1	12	1	N1	N406	310	O	AN	1/30
84	80	**S5 SEGMENT - Stop Data** LOOP CONDITION: DG 80 required if the shipment requires inside pickup, inside delivery, stops, and objective service supply deliveries. The S5 loop must occur for each unique action that occurs at an enroute location. If a pickup and delivery action are performed at the same enroute location, the S5 loop must occur once for the pickup, and once for the delivery. The origin address is not included in this loop. The split pickup and split delivery addresses are included in this loop. For example, if a shipment makes a stop location and unloads an item, then moves to an inside address and unloads and loads an item, three actions have affected the shipment at two locations. Consequently, the 858 must contain three S5 loops, one for each action.	C			1	450	O	1	999	1	S5					
							If either S503 or S504 is present, then the other is required. If either S505 or S506 is present, then the other is required. If either S507 or S508 is present, then the other is required.										
84-01	80	Stop Sequence Number If the shipment stops enroute to the final destination, enter the sequence number of the stop location here. This sequence number needs to appear in the 100 Detail - Line Item Header Information Loop with each commodity that is picked up and/or delivered at that stop. [T_9 D-14 72/73]	M	N0	1/2	1	450	O	1	999	1	S5	S501	165	M	N0	1/3
84-02	80	Stop Reason Code LD - Load UL - Unload	M	ID	2/2	1	450	O	1	999	1	S5	S502	163	M	ID	2/2
84-10	80	Stop SPLC Code Nine-digit SPLCs are required for costing of all shipments except by ocean. SPLC not used OCONUS. SOURCE: Continental Directory of Standard Point Location Codes (SPLC) available from National Motor Freight Traffic Association, Inc.	C	ID	9/9	1	450	O	1	999	1	S5	S510	154	O	ID	6/9
84-11	80	Stop Accomplish Code A - Accomplished P - Pending	C	ID	1/1	1	450	O	1	999	1	S5	S511	190	O	ID	1/1

DoD INFORMATION						X12 SEGMENT INFORMATION							X12 ELEMENT INFORMATION				
Index	DG	Data Name Notes and Codes	DoD Recommended Attributes			Tabl	Pos	Req Des	Max Use	Lp Rpt	Lp Lvl	Lp ID	Ref Des	DE #	Attributes		
85	80	**G62 SEGMENT - Stop Arrival/Departure Times** SEGMENT CONDITION: Required if stop/pickup applies.	C			1	460	O	6	999	1	S5					
							At least one of G6201 or G6203 is required. If either G6201 or G6202 is present, then the other is required. If either G6203 or G6204 is present, then the other is required.										
85-01	80	Stop Date(s) Qualifier 69 - Scheduled Pick-Up Date 70 - Scheduled Delivery Date	M	ID	2/2	1	460	O	6	999	1	S5	G6201	432	C	ID	2/2
85-02	80	Stop Date(s) Use to satisfy claims and discrepancies. Scheduled date on which stop will occur.	M	DT	8/8	1	460	O	6	999	1	S5	G6202	373	C	DT	8/8
85-03	80	Stop Arrival/Departure Times Qualifier ELEMENT CONDITION: Required if G6204 is used. 8 - Actual Pickup Time 9 - Actual Delivery Time A - Actual Departure Time	C	ID	1/1	1	460	O	6	999	1	S5	G6203	176	C	ID	1/2
85-04	80	Stop Arrival/Departure Times Scheduled time at which stop will occur. Use time format HHMM.	C	TM	4/4	1	460	O	6	999	1	S5	G6204	337	C	TM	4/8
86	80	**N1 SEGMENT - Stop Name of Party to Receive Shipment**	M			1	490	O	1	5	2	N1					
							At least one of N102 or N103 is required. If either N103 or N104 is present, then the other is required.										
86-01	80	Stop Name Of Party To Receive Shipment Qualifier LP - Loading Party UP - Unloading Party	M	ID	2/2	1	490	O	1	5	2	N1	N101	98	M	ID	2/3
86-02	80	Stop Name Of Party To Receive Shipment ELEMENT CONDITION: If stop DoDAAC/CAGE/MAPAC is unavailable (N104='XXXXXX'), then the clear text name of the stop is required.	C	AN	1/35	1	490	O	1	5	2	N1	N102	93	C	AN	1/60
86-03	80	Stop DoDAAC/CAGE/MAPAC Qualifier Do not use CAGE code for ocean shipments. 10 - Department of Defense Activity Address Code (DODAAC) 33 - Commercial and Government Entity (CAGE) A2 - Military Assistance Program Address Code (MAPAC)	M	ID	2/2	1	490	O	1	5	2	N1	N103	66	C	ID	1/2

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		
86-04	80	Stop DoDAAC/CAGE/MAPAC If stop DoDAAC/CAGE/MAPAC is unavailable, then N104 = 'XXXXXX' and the complete clear text name and address of the stop is required. [T_9 D-14 74/79]	M	AN	5/6	1	490	O	1	5	2	N1	N104	67	C	AN	2/80 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.
87	80	**N2 SEGMENT - Stop Name of Party to Receive Shipment** SEGMENT CONDITION: Use if stop name of party to receive shipment applies.	C			1	500	O	2	5	2	N1					
87-01	80	Additional Name	M	AN	1/35	1	500	O	2	5	2	N1	N201	93	M	AN	1/60
88	80	**N3 SEGMENT - Stops** SEGMENT CONDITION: Use if stop street address of party to receive shipment applies.	C			1	510	O	2	5	2	N1					
88-01	80	Street	M	AN	1/35	1	510	O	2	5	2	N1	N301	166	M	AN	1/55
88-02	80	Additional Addressing Information	C	AN	1/35	1	510	O	2	5	2	N1	N302	166	O	AN	1/55
89	80	**N4 SEGMENT - Stops** SEGMENT CONDITION: Use if stop city/state of party to receive shipment applies.	C			1	520	O	1	5	2	N1					
89-01	80	City	C	AN	2/19	1	520	O	1	5	2	N1	N401	19	O	AN	2/30 If N406 is present, then N405 is required. A combination of either N401 through N404, or N405 and N406 may be adequate to specify a location.
89-02	80	State Also use for province if shipment is Canadian. SOURCE: National Zip Code and Post Office Directory available from U.S. Postal Service National Information Data Center	C	ID	2/2	1	520	O	1	5	2	N1	N402	156	O	ID	2/2 N402 is required only if city name (N401) is in the U.S. or Canada.
89-03	80	Stop ZIP Code/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	520	O	1	5	2	N1	N403	116	O	ID	3/15
89-04	80	Country Code ELEMENT CONDITION: If stop is OCONUS, country code is required. SOURCE: Code for Representation of Names of Countries, Geopolitical Entities, Names, and Codes (GENC), is represented in the National System for Geospatial Intelligence (NSG) GENC Registry and mirrored at http://www.transcom.mil/dteb/files/refdata/V_CTRY_DOD.htm. Codes for Representation of Currencies and Funds, ISO 4217, is available from American National Standards Institute.	C	ID	2/3	1	520	O	1	5	2	N1	N404	26	O	ID	2/3

DoD INFORMATION						X12 SEGMENT INFORMATION							X12 ELEMENT INFORMATION				
Index	DG	Data Name Notes and Codes	DoD Recommended Attributes			Tabl	Pos	Req Des	Max Use	Lp Rpt	Lp Lvl	Lp ID	Ref Des	DE #	Attributes		
90	80	**PER SEGMENT - Stop Communication Numbers** SEGMENT CONDITION: Use if stop communication numbers apply.	C			1	540	O	3	5	2	N1					
							If either PER03 or PER04 is present, then the other is required. If either PER05 or PER06 is present, then the other is required. If either PER07 or PER08 is present, then the other is required.										
90-01	80	Stop Communication Numbers Qualifier IC - Information Contact	M	ID	2/2	1	540	O	3	5	2	N1	PER01	366	M	ID	2/2
90-03	80	Stop Communication Numbers Contact Qualifier IT - International Telephone TE - Telephone	M	ID	2/2	1	540	O	3	5	2	N1	PER03	365	C	ID	2/2
90-04	80	Stop Communication Numbers Contact	M	AN	7/21	1	540	O	3	5	2	N1	PER04	364	C	AN	1/80
91	10	**FA1 SEGMENT - Appropriation** LOOP CONDITION: Carriers do not need to receive appropriation data. This segment begins the appropriation number loop. It calls for both FA1 and FA2 segments. Shipper systems that are capable of receiving, storing, and sending structured DoD appropriation numbers may use this loop to exchange those numbers with trading partners. If there is only one Transportation Accounting Code or Line of Accounting at the header level, then it applies to all shipments in that container. If there is TAC/LOA at the header level, and some of the line items in the container have their own TACs/LOAs and some do not, use the TACs/LOAs at the line item level for those specific shipments and default to the header TAC/LOA for all others. If there is an invalid TAC/LOA on a single line item we will use the header TAC/LOA.	C			1	550	O	1	>1	1	FA1					
91-01	10	Agency Qualifier Code Code identifying the agency assigning the code values. DF - Department of Defense (DoD) DN - Department of the Navy DX - United States Marine Corps DY - Department of Air Force DZ - Department of Army HS - Department of Health and Human Services *Use 'HS' to denote Department of Homeland Security/US Coast Guard (DHS/USCG).*	M	ID	2/2	1	550	O	1	>1	1	FA1	FA101	559	M	ID	2/2
							FA101 Identifies the organization controlling the assignment of financial accounting information.										
92	10	**FA2 SEGMENT - Appropriation Breakdown Structure** This segment is MANDATORY if and only if the FA1 SEGMENT - Appropriation segment is used. Otherwise, this segment may not be used.	M			1	560	M	>1	>1	1	FA1					
92-01	10	Breakdown Structure Detail Code See Section 6 for list of data values.	M	ID	2/2	1	560	M	>1	>1	1	FA1	FA201	1196	M	ID	2/2

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		
92-02	10	Financial Information Code When FA201 contains code value '84', FA202 should be formatted as a dollar amount including a decimal character and two positions after the decimal, representing cents even if the value is a whole dollar amount.	M	AN	1/80	1	560	M	>1	>1	1	FA1	FA202	1195	M	AN	1/80
93	10	**L10 SEGMENT - Appropriation Weight** This segment is MANDATORY if and only if the FA1 SEGMENT - Appropriation segment is used. Otherwise, this segment may not be used.	M			1	570	O	1	>1	1	FA1					
93-01	10	Weight Entry may contain a decimal; if not, decimal is assumed at right-most point of the field.	M	R	1/8	1	570	O	1	>1	1	FA1	L1001	81	M	R	1/10
93-02	10	Weight Qualifier N - Actual Net Weight	M	ID	1/1	1	570	O	1	>1	1	FA1	L1002	187	M	ID	1/2
93-03	10	Weight Unit Code E - Metric Ton G - Grams K - Kilograms L - Pounds M - Measurement Ton O - Ounces S - Short Ton T - Long Ton	M	ID	1/1	1	570	O	1	>1	1	FA1	L1003	188	O	ID	1/1
94	100	**HL SEGMENT - Line Item Detail**	M			2	010	M	1	>1	1	HL					
							The HL segment is used to identify levels of detail information using a hierarchical structure, such as relating line-item data to shipment data, and packaging data to line-item data. The HL segment defines a top-down/left-right ordered structure.										
94-01	100	Detail - Line Item Description Loop Use the value '1' for the first HL loop and increment by 1 for each successive HL loop, regardless of usage of the HL loop. An HL Line Item Description Loop is generated for each DG 100. A shipment unit is identified by a single Transportation Control Number (TCN). Each commodity description cites the TCN it is grouped under. A shipment unit may cite multiple commodities. DG 100, commodity header information, describes one commodity (NMFC, UFC, DoD unique). The commodity detail information, DG 120, describes the type pack information in the L0 loop. There can be multiple type packs per line item.	M	N0	1/12	2	010	M	1	>1	1	HL	HL01	628	M	AN	1/12
							HL01 shall contain a unique alphanumeric number for each occurrence of the HL segment in the transaction set. For example, HL01 could be used to indicate the number of occurrences of the HL segment, in which case the value of HL01 would be "1" for the initial HL segment and would be incremented by one in each subsequent HL segment within the transaction.										

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		
94-03	100	Hierarchical Level Code This code identifies the Line Item Description Loop. I - Item	M	ID	1/1	2	010	M	1	>1	1	HL	HL03	735	M	ID	1/2
							HL03 indicates the context of the series of segments following the current HL segment up to the next occurrence of an HL segment in the transaction. For example, HL03 is used to indicate that subsequent segments in the HL loop form a logical grouping of data referring to shipment, order, or item-level information.										
95	100	**N7 SEGMENT - Primary Equipment Identifier** SEGMENT CONDITION: This segment is required in the line item detail if the shipment moves on multiple pieces of primary equipment. Use this segment to associate the line item with the primary equipment on which it is conveyed. Associate with equipment identified in N7 segment, DataGroup 60.	C			2	020	O	1	>1	1	HL					
							If either N703 or N704 is present, then the other is required. If either N705 or N716 is present, then the other is required. If either N708 or N709 is present, then the other is required.										
95-01	100	Primary Equipment Initials This data element satisfies in transit visibility requirements for multi-equipment shipments. It describes initials of the furnished primary equipment in/on which the commodity is conveyed. SOURCE: IATA Unit Load Devices Manual available from International Air Transport Association [T_2 9/12]	C	AN	1/4	2	020	O	1	>1	1	HL	N701	206	O	AN	1/4
							N701 is mandatory for rail transactions.										
95-02	100	Primary Equipment Numbers This data element satisfies in transit visibility requirements for multi-equipment shipments. It describes numbers on the furnished primary equipment in/on which the commodity is conveyed. [T_4 9/14]	M	AN	1/10	2	020	O	1	>1	1	HL	N702	207	M	AN	1/10
96	100	**NA SEGMENT - Shipper Equipment Numbers** SEGMENT CONDITION: This segment required to indicate the mapping for shipper equipment numbers when applicable. Shipper equipment is that equipment/vehicle which is supplied/owned by the shipper. This includes DROMs, containers, and vans. Shipper owned vehicles, like trucks, jeeps, and tanks, are identified using a different mapping of the NA segment in the HL Line Item Description Loop. See the following occurrence of the NA segment for mapping of vehicles information.	C			2	030	O	1	>1	1	HL					
							If NA01 is present, then NA02 is required.										
96-03	100	Shipper Equipment Initials DODV - DoD Van and Container DROM - Dromedary Equipment	M	AN	4/4	2	030	O	1	>1	1	HL	NA03	206	M	AN	1/4
							NA03 contains the equipment initial of an associated shipment and is required by rail. If unknown, use NONZ for van or NONU for container.										
96-04	100	Shipper Equipment Numbers Use for Initials and Serial Number of the Shipper Owned Containers/DROMs.	M	AN	1/10	2	030	O	1	>1	1	HL	NA04	207	M	AN	1/10
							NA04 contains the equipment number of an associated shipment.										
97	100	**NA SEGMENT - Military Vehicle Identification** SEGMENT CONDITION: This segment required to indicate the mapping for shipper owned vehicles when applicable. This includes cars, jeeps, tanks, and trucks. See the previous occurrence of the NA segment for mapping of shipper equipment information. The model number maps to NTE SEGMENT - Vehicle Model Number.	C			2	030	O	1	>1	1	HL					
							If NA01 is present, then NA02 is required.										

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		
97-01	100	Military Vehicle Identification/Serial Number Qualifier ELEMENT CONDITION: Required if NA02 is used. SE - Serial Number VT - Motor Vehicle ID Number	C	ID	2/2	2	030	O	1	>1	1	HL	NA01	128	O	ID	2/3
97-02	100	Military Vehicle Identification/Serial Number Use VIN to describe the vehicles being moved.	C	AN	1/30	2	030	O	1	>1	1	HL	NA02	127	C	AN	1/30
97-03	100	Military Vehicle Initials (Filler) NONX - Vehicle	M	AN	4/4	2	030	O	1	>1	1	HL	NA03	206	M	AN	1/4
							NA03 contains the equipment initial of an associated shipment and is required by rail. If unknown, use NONZ for van or NONU for container.										
97-04	100	Military Vehicle Bumper Number Use 'NONE' if bumper number is unavailable.	M	AN	1/10	2	030	O	1	>1	1	HL	NA04	207	M	AN	1/10
							NA04 contains the equipment number of an associated shipment.										
98	100	**M7 SEGMENT - Seals** SEGMENT CONDITION: Required when seals are applied.	C			2	040	O	5	>1	1	HL					
98-01	100	Seals On Shipper Owned Equipment Use to describe seal applied to equipment (Containers, DROMs) owned by the shipper. [T_9 D-13 66/73]	M	AN	2/15	2	040	O	5	>1	1	HL	M701	225	M	AN	2/15
99	100	**N9 SEGMENT - Requisition Number** SEGMENT CONDITION: Required if available.	C			2	100	O	10	>1	1	HL					
							At least one of N902 or N903 is required. If N906 is present, then N905 is required.										
99-01	100	Requisition Number Qualifier RQ - Purchase Requisition Number	M	ID	2/2	2	100	O	10	>1	1	HL	N901	128	M	ID	2/3
99-02	100	Requisition Number The requisition number which corresponds to the line item is carried in this data element. [T_9 D-13 78/79]	M	AN	14/17	2	100	O	10	>1	1	HL	N902	127	C	AN	1/30
100	100	**N9 SEGMENT - TCN**	M			2	100	O	10	>1	1	HL					
							At least one of N902 or N903 is required. If N906 is present, then N905 is required.										
100-01	100	TCN Qualifier TG - Transportation Control Number (TCN)	M	ID	2/2	2	100	O	10	>1	1	HL	N901	128	M	ID	2/3

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		
100-02	100	TCN - Transportation Control Number Every line item (HL Line Item Description Loop) should identify the TCN with which it is associated. [T_9 D-13 78/79]	M	AN	17/17	2	100	O	10	>1	1	HL	N902	127	C	AN	1/30
100-07		Transportation Tracking Number (TTN) Composite Header COMPOSITE CONDITION: Required for unit move cargo when Transportation Tracking Number is applicable.	C	CE		2	100	O	10	>1	1	HL	N907	C040	O	CE	
							If either C04003 or C04004 is present, then the other is required. If either C04005 or C04006 is present, then the other is required.										
100-07-01		Transportation Tracking Number (TTN) Qualifier 18 - Plan Number *Use '18' to denote Transportation Tracking Number (TTN).*	M	ID	2/2	2	100	O	10	>1	1	HL	C04001	128	M	ID	2/3
100-07-02		Transportation Tracking Number (TTN).	M	AN	17/17	2	100	O	10	>1	1	HL	C04002	127	M	AN	1/30
101	100	**N9 SEGMENT - National Stock No./Manufacturer's Part No.** SEGMENT CONDITION: Required if available.	C			2	100	O	10	>1	1	HL					
							At least one of N902 or N903 is required. If N906 is present, then N905 is required.										
101-01	100	National Stock No./Manufacturer's Part No. Qualifier This qualifier must appear if NSN is used. Use Manufacturer's Part Number if NSN is not available. MF - Manufacturers Part Number NS - National Stock Number	M	ID	2/2	2	100	O	10	>1	1	HL	N901	128	M	ID	2/3
101-02	100	National Stock No./Manufacturer's Part No. [T_9 D-13 78/79]	M	AN	1/30	2	100	O	10	>1	1	HL	N902	127	C	AN	1/30
102	100	**N9 SEGMENT - Project Code** SEGMENT CONDITION: Required if project code is used.	C			2	100	O	10	>1	1	HL					
							At least one of N902 or N903 is required. If N906 is present, then N905 is required.										
102-01	100	Project Code Qualifier P4 - Project Code	M	ID	2/2	2	100	O	10	>1	1	HL	N901	128	M	ID	2/3
102-02	100	Project Code [T_9 D-13 78/79]	M	AN	1/3	2	100	O	10	>1	1	HL	N902	127	C	AN	1/30
103	100	**N9 SEGMENT - Stop Sequence Number Cross-Reference**	C			2	100	O	10	>1	1	HL					
							At least one of N902 or N903 is required. If N906 is present, then N905 is required.										

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		
103-01	100	Stop Sequence Number Cross-Reference Qualifier QN - Stop Sequence Number	M	ID	2/2	2	100	O	10	>1	1	HL	N901	128	M	ID	2/3
103-02	100	Stop Sequence Number Cross-Reference If stops apply to a shipment, a line item is identified with a stop by carrying the sequence number of the stop address in this data element. That sequence number appears in the S5 segment in the header area of the transaction set. [T_9 D-13 78/79]	M	N0	1/2	2	100	O	10	>1	1	HL	N902	127	C	AN	1/30
104	100	**N9 SEGMENT - External Tracking Number (XTN)** SEGMENT CONDITION: Use for USML shipments. U.S. Customs' Automated Export System uses this number.	C			2	100	O	10	>1	1	HL					
							At least one of N902 or N903 is required. If N906 is present, then N905 is required.										
104-01	100	Reference Identification Qualifier ED - Export Declaration	M	ID	2/2	2	100	O	10	>1	1	HL	N901	128	M	ID	2/3
104-02	100	Reference Identification Use shipper DoDAAC plus TCN.	M	AN	23/23	2	100	O	10	>1	1	HL	N902	127	C	AN	1/30
105	100	**N9 SEGMENT - LIN Index Number** SEGMENT CONDITION: Use for Army Unit moves.	C			2	100	O	10	>1	1	HL					
							At least one of N902 or N903 is required. If N906 is present, then N905 is required.										
105-01	100	LIN Index Number Qualifier BCI - Basic Contract Line Item Number	M	ID	3/3	2	100	O	10	>1	1	HL	N901	128	M	ID	2/3
105-02	100	LIN Index Number [T_9 D-13 78/79]	M	AN	2/2	2	100	O	10	>1	1	HL	N902	127	C	AN	1/30
106	100	**N9 SEGMENT - Line Item Number** SEGMENT CONDITION: Use for Army Unit moves.	C			2	100	O	10	>1	1	HL					
							At least one of N902 or N903 is required. If N906 is present, then N905 is required.										
106-01	100	Line Item Number Qualifier LI - Line Item Identifier (Seller's)	M	ID	2/2	2	100	O	10	>1	1	HL	N901	128	M	ID	2/3
106-02	100	Line Item Number [T_9 D-13 78/79]	M	AN	1/6	2	100	O	10	>1	1	HL	N902	127	C	AN	1/30
107	100	**N9 SEGMENT - Controlled Inventory Item Code (CIIC)** SEGMENT CONDITION: Required if the Defense Transportation Tracking System (DTTS) is required and if DoD-controlled item has a CIIC assigned.	C			2	100	O	10	>1	1	HL					
							At least one of N902 or N903 is required. If N906 is present, then N905 is required.										

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		
107-01	100	Controlled Inventory Item Code (CIIC) Qualifier M6 - Military Ordnance Security Risk Number *Use 'M6' to denote Controlled Inventory Item Code (CIIC).*	M	ID	2/2	2	100	O	10	>1	1	HL	N901	128	M	ID	2/3
107-02	100	Controlled Inventory Item Code (CIIC) SOURCE: DoD 4100.39-M (FLIS Manual) Volume 10, Table 61 [T_9 D-13 78/79]	M	AN	1/1	2	100	O	10	>1	1	HL	N902	127	C	AN	1/30
108	100	**N9 SEGMENT - DoD Identification Code (DoDIC)** SEGMENT CONDITION: Required for DTTS if the hazardous shipment contains ammunition.	C			2	100	O	10	>1	1	HL					
							At least one of N902 or N903 is required. If N906 is present, then N905 is required.										
108-01	100	DoDIC Qualifier 1I - Department of Defense Identification Code (DoDIC)	M	ID	2/2	2	100	O	10	>1	1	HL	N901	128	M	ID	2/3
108-02	100	DoDIC Required for all ammunition and explosives. Also called Navy Ammunition Logistics Code (NALC). [T_9 D-15 67/70]	M	AN	4/4	2	100	O	10	>1	1	HL	N902	127	C	AN	1/30
109	100	**L5 SEGMENT - Classification**	M			2	130	O	10	>1	1	HL					
							If either L503 or L504 is present, then the other is required. If L507 is present, then L506 is required. If either L508 or L509 is present, then the other is required.										
109-02	100	Description Of Articles Clear text description of the line item. [T_8 11/14]	C	AN	1/50	2	130	O	10	>1	1	HL	L502	79	O	AN	1/50
							L502 may be used to send quantity information as part of the product description.										
109-03	100	Classification Item No. (Commodity Code) When the sub-item number is available, provide it in the last two positions of this element. DIC reference is applicable only when qualified with the value 'I' in the L504. [T_0 15/19]	M	AN	1/8	2	130	O	10	>1	1	HL	L503	22	C	AN	1/30

DoD INFORMATION						X12 SEGMENT INFORMATION							X12 ELEMENT INFORMATION				
Index	DG	Data Name Notes and Codes	DoD Recommended Attributes			Tabl	Pos	Req Des	Max Use	Lp Rpt	Lp Lvl	Lp ID	Ref Des	DE #	Attributes		
109-04	100	Classification Item No. (Commodity Code) Qualifier D - Department of Defense Unique Codes I - Milstamp AITC or Water Commodity Code N - National Motor Freight Classification (NMFC) T - Standard Transportation Commodity Code (STCC) U - Uniform Freight Classification (UFC)	M	ID	1/1	2	130	O	10	>1	1	HL	L504	23	C	ID	1/1
109-06	100	Number On Packages Use to show descriptive marks and numbers on freight.	C	AN	1/45	2	130	O	10	>1	1	HL	L506	87	C	AN	1/48
110	100	**L5 SEGMENT - Privately Owned Vehicle** SEGMENT CONDITION: Required for OCEAN CARGO SHIPPING INSTRUCTIONS. Not used otherwise.	C			2	130	O	10	>1	1	HL					
							If either L503 or L504 is present, then the other is required. If L507 is present, then L506 is required. If either L508 or L509 is present, then the other is required.										
110-02	100	POV Make ELEMENT CONDITION: If this segment appears, at least one of L502 and L506 must be used in this segment. [T_8 11/14]	C	AN	1/10	2	130	O	10	>1	1	HL	L502	79	O	AN	1/50
							L502 may be used to send quantity information as part of the product description.										
110-06	100	Vehicle Color ELEMENT CONDITION: If this segment appears, at least one of L502 and L506 must be used in this segment.	C	AN	1/8	2	130	O	10	>1	1	HL	L506	87	C	AN	1/48
111	190	**LH6 SEGMENT - Certification Code (49 CFR Compliance)** SEGMENT CONDITION: Required for HAZMAT shipments.	C			2	134	O	5	>1	1	HL					
							If either LH602 or LH603 is present, then the other is required.										
111-01	190	HAZMAT - Certifying Person (49CFR Compliance) Clear text. MANDATORY for all hazardous material shipments. SOURCE: 49 CFR 172.204	M	AN	1/35	2	134	O	5	>1	1	HL	LH601	93	O	AN	1/60
111-02	190	HAZMAT - Certification Code (49 CFR Compliance) 1 - Abbreviated Hazardous Certification 2 - Long Form of Hazardous Certification	M	ID	1/1	2	134	O	5	>1	1	HL	LH602	272	C	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		
111-03	190	HAZMAT - Certification Declaration (49 CFR Compliance) Certification verbiage in accordance with 49 CFR 172.204. MANDATORY for all hazardous materials shipments. Verbiage that certifies the entire shipment should appear once in the first occurrence of the HL Line Item Description Loop. SOURCE: Hazardous Materials Regulations of the Department of Transportation by Air, Rail, Highway, and Water available from Association of American Railroads Publications	M	AN	1/25	2	134	O	5	>1	1	HL	LH603	273	C	AN	1/25
111-04	190	HAZMAT - Certification Declaration (49 CFR Compliance) ELEMENT CONDITION: Use for any remainder of certification verbiage exceeding 25 characters in LH603. SOURCE: Hazardous Materials Regulations of the Department of Transportation by Air, Rail, Highway, and Water available from Association of American Railroads Publications	C	AN	1/25	2	134	O	5	>1	1	HL	LH604	273	O	AN	1/25
112	190	**NTE SEGMENT - 3PL Offer Record Number** SEGMENT CONDITION: Use for 3PL coordinated shipments (DTCI or DFTS) only. Required for 3PL coordinated shipments. Matches the shipper's offer record numbers that appear in corresponding 219 Transportation Service Request and a 220 Transportation Service Response.	C			2	140	O	100	>1	1	HL	The NTE segment permits free-form information/data which, under ANSI X12 standard implementations, is not machine processable. The use of the NTE segment should therefore be avoided, if at all possible, in an automated environment.				
112-01	190	3PL Offer Record Number Qualifier UPI - Updated Information *Use 'UPI' to denote 3PL Offer Record Number Qualifier.*	M	ID	3/3	2	140	O	100	>1	1	HL	NTE01	363	O	ID	3/3
112-02	190	3PL Offer Record Number	M	AN	1/30	2	140	O	100	>1	1	HL	NTE02	352	M	AN	1/80
113	190	**NTE SEGMENT - Vehicle Model Number** SEGMENT CONDITION: Use to identify the model number for military vehicles as applicable. Required for ocean shipments.	C			2	140	O	100	>1	1	HL	The NTE segment permits free-form information/data which, under ANSI X12 standard implementations, is not machine processable. The use of the NTE segment should therefore be avoided, if at all possible, in an automated environment.				
113-01	1001	Vehicle Model Number Qualifier EED - Equipment Description	M	ID	3/3	2	140	O	100	>1	1	HL	NTE01	363	O	ID	3/3
113-02	1001	Vehicle Model Number [T_9 D12 54/79]	M	AN	1/10	2	140	O	100	>1	1	HL	NTE02	352	M	AN	1/80
114	190	**NTE SEGMENT - Unit Line Number** SEGMENT CONDITION: Use to identify unit line number as applicable.	C			2	140	O	100	>1	1	HL	The NTE segment permits free-form information/data which, under ANSI X12 standard implementations, is not machine processable. The use of the NTE segment should therefore be avoided, if at all possible, in an automated environment.				
114-01	2001	Unit Line Number Qualifier OTN - Another Type of Number Description	M	ID	3/3	2	140	O	100	>1	1	HL	NTE01	363	O	ID	3/3

DoD INFORMATION						X12 SEGMENT INFORMATION							X12 ELEMENT INFORMATION				
Index	DG	Data Name Notes and Codes	DoD Recommended Attributes			Tabl	Pos	Req Des	Max Use	Lp Rpt	Lp Lvl	Lp ID	Ref Des	DE #	Attributes		
114-02	2001	Unit Line Number [T_9 D-12 54/79]	M	AN	1/7	2	140	O	100	>1	1	HL	NTE02	352	M	AN	1/80
115	190	**NTE SEGMENT - Transportation Tracking Account Number (TTAN)** SEGMENT CONDITION: Required for unit move cargo when Transportation Tracking Account Number is applicable.	C			2	140	O	100	>1	1	HL					
							The NTE segment permits free-form information/data which, under ANSI X12 standard implementations, is not machine processable. The use of the NTE segment should therefore be avoided, if at all possible, in an automated environment.										
115-01	190	Transportation Tracking Account Number (TTAN) Qualifier TCF - Tariff Commodity Footnotes *Use 'TCF' to denote Transportation Tracking Account Number (TTAN).*	M	ID	3/3	2	140	O	100	>1	1	HL	NTE01	363	O	ID	3/3
115-02	190	Transportation Tracking Account Number (TTAN)	M	AN	13/13	2	140	O	100	>1	1	HL	NTE02	352	M	AN	1/80
116	190	**NTE SEGMENT - Other Information** SEGMENT CONDITION: For non-ocean shipments, use to indicate line item level special instructions. Ocean shipments use for additional comments information or rating information as needed. Repeat once for each qualifier.	C			2	140	O	100	>1	1	HL					
							The NTE segment permits free-form information/data which, under ANSI X12 standard implementations, is not machine processable. The use of the NTE segment should therefore be avoided, if at all possible, in an automated environment.										
116-01	190	Other Information Qualifier Code Shipments by other than ocean use code value 'OTH'. Ocean shipments use code values 'CIG', 'LIQ', 'ADD', and 'OCR'. ADD - Additional Information CIG - Cigarette Information LIQ - Liquor Information OCR - Outside the Continental U.S. (OCONUS) Rating Information OTH - Other Instructions	M	ID	3/3	2	140	O	100	>1	1	HL	NTE01	363	O	ID	3/3
116-02	190	Other Information Shipments by other than ocean enter clear text information related to the line item such as velocity management instructions. Ocean shipments enter values depending on code value in NTE01 as follows: With code value 'OCR' use tariff for CONUS to Hawaii/Guam Rating Information. With code value 'CIG' or 'LIQ' use cigarette or liquor information. Repeat segment until all cigarette or liquor data has been entered. [T_9 D-12 54/79]	M	AN	1/80	2	140	O	100	>1	1	HL	NTE02	352	M	AN	1/80

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		
117	120	**L0 SEGMENT - Billed/Rated Quantity** CHANGE NOTE: Segment condition updated per DM 1043. Repeat the L0 loop if there is more than one set of oversized dimensions for the same item.	M			2	145	O	1	20	2	L0					
							If either L002 or L003 is present, then the other is required. If either L004 or L005 is present, then the other is required. If either L006 or L007 is present, then the other is required. If either L008 or L009 is present, then the other is required. If L011 is present, then L004 is required. If either L013 or L015 is present, then the other is required.								
117-02	120	Billed/Rated Quantity A commodity is a single type of product or material. Transportation of a commodity is usually billed/rated by units of freight weight. A line item on a transportation bill describes a single commodity. The quantity of a line item commodity is described here in the L0 segment in the HL Detail - Line Item Description Loop. One L0 segment occurs for each type pack under the line item. There may be many line items, i.e., HL Line Item Description Loop, of the same commodity. Two rules must be followed when constructing an L0 segment: 1) If the billed/rated quantity is expressed as freight weight, it appears here. Freight weight is the weight that line haul rate is based upon and may include skid, pallet, and dunnage weights, carried in separate MEA segments. The L004, L005, and L011 elements are not used. 2) If the billed/rated quantity is other than weight, such as barrels or gallons in the case of a pipeline shipment, it also appears here. If entry does not contain a decimal, decimal is assumed at right-most point of the field. In addition, the L004, L005, and L011 elements are used to carry the weight information, if required. For ocean shipments, enter line item weight.	M	R	1/8	2	145	O	1	20	2	L0	L002	220	C	R	1/11
117-03	120	Billed/Rated Quantity Qualifier BA - Barrels GL - Gallon LB - Pound	M	ID	2/2	2	145	O	1	20	2	L0	L003	221	C	ID	2/2
117-04	120	Freight Weight Freight weight of line item described in pounds only. Freight weight is the weight that line haul rate is based on and may include skid, pallet, and dunnage weights, depending on the applicable tender. Skid, pallet, and dunnage weights are carried in separate MEA segments. Entry may contain a decimal; if not, decimal is assumed at right-most point of the field. See the next occurrence of the MEA segment for the weight breakdown for packing materials. Decimals are not used for ocean shipments. [T_2 72/76]	C	R	1/8	2	145	O	1	20	2	L0	L004	81	C	R	1/10
117-05	120	Freight Weight Qualifier ELEMENT CONDITION: Required if L004 is used. See Section 6 for list of data values.	C	ID	1/2	2	145	O	1	20	2	L0	L005	187	C	ID	1/2
117-06	120	Cube Cube of line item. [T_7 77/80]	M	R	1/8	2	145	O	1	20	2	L0	L006	183	C	R	1/8

DoD INFORMATION						X12 SEGMENT INFORMATION							X12 ELEMENT INFORMATION				
Index	DG	Data Name Notes and Codes	DoD Recommended Attributes			Tabl	Pos	Req Des	Max Use	Lp Rpt	Lp Lvl	Lp ID	Ref Des	DE #	Attributes		
117-07	120	Cube Qualifier E - Cubic Feet G - Gallons H - Hundreds of Measurement Tons S - Measurement Ton V - Liter X - Cubic Meters	M	ID	1/1	2	145	O	1	20	2	L0	L007	184	C	ID	1/1
117-08	120	Type Pack Quantity Enter the Type Pack Quantity. For ocean shipments, enter number of pieces. [T_0 68/71]	M	N0	1/7	2	145	O	1	20	2	L0	L008	80	C	N0	1/7
							L008 is the number of handling units of the line item tendered to the carrier.										
117-09	120	Type Pack Qualifier Code for packaging form of the lading quantity. SOURCE: Reference Section 6.0 of this IC for code values using the table that contains the applicable type pack qualifier. Common code values associated with multiple definitions prevents documentation of the entire sub-set. [T_0 28/29]	M	ID	3/3	2	145	O	1	20	2	L0	L009	211	C	ID	3/3
117-10	120	Type Pack Sub Qualifier Material used to protect lading. ELEMENT CONDITION: Use this value to identify specific MSCVAN and SEAVAN configurations. SOURCE: Reference Section 6.0 of this IC for code values using the table that contains the applicable type pack qualifier. Common code values associated with multiple definitions prevents documentation of the entire sub-set. [T_7 54/67]	C	AN	2/2	2	145	O	1	20	2	L0	L010	458	O	AN	2/25

DoD INFORMATION						X12 SEGMENT INFORMATION							X12 ELEMENT INFORMATION				
Index	DG	Data Name Notes and Codes	DoD Recommended Attributes			Tabl	Pos	Req Des	Max Use	Lp Rpt	Lp Lvl	Lp ID	Ref Des	DE #	Attributes		
117-11	120	Freight Weight Unit Code 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	145	O	1	20	2	L0	L011	188	O	ID	1/1
117-13	120	Over-dimensional Pieces, Quantity Used to indicate the number of oversized pieces. If there are multiple over-dimensional items (all the same size), send as one line item and indicate total quantity here. Required for ocean shipments when there is more than one set of oversized dimensions for the same item.	C	R	1/15	2	145	O	1	20	2	L0	L013	380	C	R	1/15
							L013 can only be used if the code in L009 is PLT, SKD, or SLP. 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.										
117-15	120	Oversized Item Indicator ELEMENT CONDITION: Required if L013 is used. Required for ocean shipments when there is more than one set of oversized dimensions for the same item. N - No Y - Yes	C	ID	1/1	2	145	O	1	20	2	L0	L015	1073	C	ID	1/1
							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.										
118	120	**L1 SEGMENT - Declared Value of Bill of Lading Line Item** SEGMENT CONDITION: Declared value is required for all shipments that will be processed through a foreign host nation's customs and border clearance program.	C			2	150	O	20	20	2	L0					
							If either L102 or L103 is present, then the other is required. At least one of L104, L105, or L106 is required. If either L114 or L115 is present, then the other is required. If either L117 or L118 is present, then the other is required.										
118-04	120	Charge Code identifying the type of identification number of Depository Financial Institution (DFI) 00 - Use value '00' to meet X12 syntax requirements.	M	N2	1/8	2	150	O	20	20	2	L0	L104	58	C	N2	1/12
118-14	120	Declared Value Enter the actual value or selling price per TCN (include total bill of lading line item quantity cost).	M	N2	2/12	2	150	O	20	20	2	L0	L114	74	C	N2	2/12

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		
118-15	120	Rate/Value Qualifier CO - Cost per Unit *Use 'CO' to denote Total Cost per TCN.*	M	ID	2/2	2	150	O	20	20	2	L0	L115	122	C	ID	2/2
119	120	**MEA SEGMENT - Packaging Material Weight** SEGMENT CONDITION: Use to provide weight breakout per type pack per commodity per shipment unit.	C			2	160	O	10	20	2	L0					
							At least one of MEA03, MEA05, MEA06, or MEA08 is required. If MEA05 is present, then MEA04 is required. If MEA06 is present, then MEA04 is required. If MEA07 is present, then at least one of MEA03, MEA05, or MEA06 is required. Only one of MEA08 or MEA03 may be present.											
119-01	120	Packaging Material Qualifier Weight breakout per type pack per commodity per shipment unit is carried in the MEA segment. For each type of packing material weight breakout, use an individual MEA segment. DN - Dunnage Dimension PA - Pallet Dimensions SK - Skid Dimensions	M	ID	2/2	2	160	O	10	20	2	L0	MEA01	737	O	ID	2/2
119-02	120	Packaging Material Weight Qualifier B - Billed Weight	M	ID	1/1	2	160	O	10	20	2	L0	MEA02	738	O	ID	1/3
119-03	120	Packaging Material Weight The weight for any component of the packaging material (e.g. skid, pallet, dunnage weights). Entry may contain a decimal; if not, decimal is assumed at right-most point of the field. [T_9 D-21 13/16]	M	R	1/8	2	160	O	10	20	2	L0	MEA03	739	C	R	1/20
119-04		Unit or Basis for 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	160	O	10	20	2	L0	MEA04	C001	C	CE	
119-04-01		Unit or Basis for Measurement Code By placing code value 'PN' (DE 355 unit qualifier) in the C00101, you are satisfying X12 syntax requirements for the composite data element. PN - Pounds Net	M	ID	2/2	2	160	C	10	20	2	L0	C00101	355	M	ID	2/2
120	120	**MEA SEGMENT - Shipped Dimensions** SEGMENT CONDITION: Required if the shipment is oversize or if air shipment. (GFM needs dimensions to cost air shipment.) All dimensions are required for all 3PL carrier shipments.	C			2	160	O	10	20	2	L0					
							At least one of MEA03, MEA05, MEA06, or MEA08 is required. If MEA05 is present, then MEA04 is required. If MEA06 is present, then MEA04 is required. If MEA07 is present, then at least one of MEA03, MEA05, or MEA06 is required. Only one of MEA08 or MEA03 may be present.											

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		
120-01	120	Shipped Dimensions Information Qualifier SD - Shipped Dimensions	M	ID	2/2	2	160	O	10	20	2	L0	MEA01	737	O	ID	2/2
120-02	120	Shipped Dimensions Qualifier GFM will calculate oversize dimensions from shipper provided information. HT - Height LN - Length WD - Width	M	ID	2/2	2	160	O	10	20	2	L0	MEA02	738	O	ID	1/3
120-03	120	Shipped Dimensions Units Use for values of oversize dimensions. [T_9 D-21 13/16]	M	N0	1/10	2	160	O	10	20	2	L0	MEA03	739	C	R	1/20
120-04		Unit or Basis for 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	160	O	10	20	2	L0	MEA04	C001	C	CE	
120-04-01		English Measurement Code By placing code value 'FT' or 'IN' (DE 355 unit qualifier) in the C00101, you are satisfying X12 syntax requirements for the composite data element. FT - Foot IN - Inch	M	ID	2/2	2	160	C	10	20	2	L0	C00101	355	M	ID	2/2
121	120	**MEA SEGMENT - Net Explosive Weight (English)** SEGMENT CONDITION: Required for all shipment modes; include if available. English (and metric) units are required to comply with 49 CFR 171.10. For OCONUS shipments, NEW facilitates compliance with 1MDGC.	C			2	160	O	10	20	2	L0	At least one of MEA03, MEA05, MEA06, or MEA08 is required. If MEA05 is present, then MEA04 is required. If MEA06 is present, then MEA04 is required. If MEA07 is present, then at least one of MEA03, MEA05, or MEA06 is required. Only one of MEA08 or MEA03 may be present.					
121-01	120	Net Explosive Weight Qualifier NX - Net Explosive Weight	M	ID	2/2	2	160	O	10	20	2	L0	MEA01	737	O	ID	2/2
121-03	120	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. [T_9 D-21 13/16]	M	R	1/8	2	160	O	10	20	2	L0	MEA03	739	C	R	1/20
121-04		Composite Unit of Measurement Code	M	CE		2	160	O	10	20	2	L0	MEA04	C001	C	CE	

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		
121-04-01		Net Explosive Weight Qualifier (English) Both metric and English units are required to comply with 49 CFR 171.10. By placing these code values (DE 355 unit qualifier) in the C00101, you are satisfying X12 syntax requirements for the composite data element. Use 'GA' if explosive is wet. Use 'PN' if explosive is dry. GA - Gallon PN - Pounds Net	M	ID	2/2	2	160	C	10	20	2	L0	C00101	355	M	ID	2/2
122	120	**MEA SEGMENT - Net Explosive Quantity (Metric)** SEGMENT CONDITION: Required if available. Metric (and English) units are required to comply with 49 CRF 171.10. For OCONUS shipments, NEW facilitates compliance with 1MDGC.	C			2	160	O	10	20	2	L0	At least one of MEA03, MEA05, MEA06, or MEA08 is required. If MEA05 is present, then MEA04 is required. If MEA06 is present, then MEA04 is required. If MEA07 is present, then at least one of MEA03, MEA05, or MEA06 is required. Only one of MEA08 or MEA03 may be present.					
122-01	120	Net Explosive Quantity Qualifier WT - Weights *Use 'WT' to denote Net Explosive Quantity.*	M	ID	2/2	2	160	O	10	20	2	L0	MEA01	737	O	ID	2/2
122-03	120	Net Explosive Quantity Entry may contain a decimal; if not, decimal is assumed at right-most point of the field. [T_9 D-21 13/16]	M	R	1/8	2	160	O	10	20	2	L0	MEA03	739	C	R	1/20
122-04		Composite Unit of Measurement Code	M	CE		2	160	O	10	20	2	L0	MEA04	C001	C	CE	
122-04-01		Net Explosive Quantity Qualifier (Metric) By placing these code values (DE 355 unit qualifier) in the C00101, you are satisfying X12 syntax requirements for the composite data element. Use 'KG' if explosive is dry. Use 'LT' if explosive is wet. KG - Kilogram LT - Liter	M	ID	2/2	2	160	C	10	20	2	L0	C00101	355	M	ID	2/2
123	120	**MEA SEGMENT - Round Count** SEGMENT CONDITION: Required if shipment contains ammunition.	C			2	160	O	10	20	2	L0	At least one of MEA03, MEA05, MEA06, or MEA08 is required. If MEA05 is present, then MEA04 is required. If MEA06 is present, then MEA04 is required. If MEA07 is present, then at least one of MEA03, MEA05, or MEA06 is required. Only one of MEA08 or MEA03 may be present.					
123-01	120	Round Count Qualifier CT - Counts	M	ID	2/2	2	160	O	10	20	2	L0	MEA01	737	O	ID	2/2

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		
123-03	120	Round Count [T_9 D-21 13/16]	M	N0	1/8	2	160	O	10	20	2	L0	MEA03	739	C	R	1/20
123-04		Composite Unit of Measurement Code	M	CE		2	160	O	10	20	2	L0	MEA04	C001	C	CE	
123-04-01		Round Count Qualifier By placing code value 'RO' (DE 355 unit qualifier) in the C00101, you are satisfying X12 syntax requirements for the composite data element. RO - Round	M	ID	2/2	2	160	C	10	20	2	L0	C00101	355	M	ID	2/2
124	120	**L0 SEGMENT - Ammunition Lot Number/Number of Pieces** LOOP CONDITION: Required for ocean shipments if shipment contains ammunition. Report pieces, weight, cube and ammunition lot number. Report also in MEA segment (Round Count).	C			2	145	O	1	20	2	L0	If either L002 or L003 is present, then the other is required. If either L004 or L005 is present, then the other is required. If either L006 or L007 is present, then the other is required. If either L008 or L009 is present, then the other is required. If L011 is present, then L004 is required. If either L013 or L015 is present, then the other is required.					
124-04	120	Weight [T_7 72/76]	C	R	1/10	2	145	O	1	20	2	L0	L004	81	C	R	1/10
124-05	120	Weight Qualifier A1 - Dimensional Weight FR - Freight Weight	C	ID	2/2	2	145	O	1	20	2	L0	L005	187	C	ID	1/2
124-06	120	Cube ELEMENT CONDITION: Required for ocean shipments. [T_7 68/71]	C	R	1/8	2	145	O	1	20	2	L0	L006	183	C	R	1/8
124-07	120	Cube Qualifier E - Cubic Feet	C	ID	1/1	2	145	O	1	20	2	L0	L007	184	C	ID	1/1
124-08	120	Number of Pieces ELEMENT CONDITION: Required for ocean shipments. [T_7 77/80]	C	N0	1/7	2	145	O	1	20	2	L0	L008	80	C	N0	1/7
							L008 is the number of handling units of the line item tendered to the carrier.										
124-09	120	Packaging Form Code (for number of pieces) PCS - Pieces	C	ID	3/3	2	145	O	1	20	2	L0	L009	211	C	ID	3/3

DoD INFORMATION						X12 SEGMENT INFORMATION							X12 ELEMENT INFORMATION				
Index	DG	Data Name Notes and Codes	DoD Recommended Attributes			Tabl	Pos	Req Des	Max Use	Lp Rpt	Lp Lvl	Lp ID	Ref Des	DE #	Attributes		
124-10	120	Ammunition Lot Number Use leading zero as necessary to provide a minimum of two characters. [T_7 54/67]	C	AN	2/14	2	145	O	1	20	2	L0	L010	458	O	AN	2/25
125	120	**L0 SEGMENT - Dimensional Weight** LOOP CONDITION: Use when dimensional weight applies. Dimensional Weight is the chargeable weight computed on the basis of volume rather than actual weight. GFM will calculate the Dimensional Weight based on dimensions passed in the MEA segments. Shipper systems do not need to provide the Dimensional Weight.	C			2	145 If either L002 or L003 is present, then the other is required. If either L004 or L005 is present, then the other is required. If either L006 or L007 is present, then the other is required. If either L008 or L009 is present, then the other is required. If L011 is present, then L004 is required. If either L013 or L015 is present, then the other is required.	O	1	20	2	L0					
125-04	120	Dimensional Weight When applicable, dimensional weight shall be calculated using the following formula: Length x Width x Height divided by 194 equals dimensional weight (all measurements in inches). [T_2 72/76]	M	R	1/10	2	145	O	1	20	2	L0	L004	81	C	R	1/10
125-05	120	Dimensional Weight Qualifier A1 - Dimensional Weight	M	ID	2/2	2	145	O	1	20	2	L0	L005	187	C	ID	1/2
125-11	120	Weight Unit Code 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	145	O	1	20	2	L0	L011	188	O	ID	1/1
126	190	**LH1 SEGMENT - HAZMAT Quantities** LOOP CONDITION: DG 190 required if the shipment contains hazardous material and/or the Defense Transportation Tracking System (DTTS) is required.	C			2	170	O	1	100	2	LH1					

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		
126-01	190	HAZMAT - Unit Of Measure Code Contains the code identifying the Unit of Measure (type of packaging) for which the data in LH102 is reported. Use LH106 to express weight and volume. SOURCE: Reference Section 6.0 of this IC for code values using applicable tables. Common code values associated with multiple definitions prevents documentation of the entire sub-set. Sample Values: BA, BD, BG, BX, CH	M	ID	2/2	2	170	O	1	100	2	LH1	LH101 LH101 and LH102 are used to convey the number and type of packages for bulk and nonbulk movements.	355	M	ID	2/2
126-02	190	HAZMAT - Lading Quantity Contains the number of units (pieces) of the lading commodity that is Hazardous. SOURCE: 49 CFR 172.202(c) [T_9 D-15 54/79]	M	N0	1/7	2	170	O	1	100	2	LH1	LH102	80	M	N0	1/7
126-03	190	HAZMAT - UN/NA ID Code SOURCE: Hazardous Materials Regulations of the Department of Transportation by Air, Rail, Highway, and Water available from Association of American Railroads Publications [T_6 74/79]	M	ID	6/6	2	170	O	1	100	2	LH1	LH103	277	O	ID	6/6
126-06	190	HAZMAT - English Measurement Code Use the unit of measure codes for quantity or volume of non bulk shipments. This will typically be pounds, cubic feet, or a unit of measure other than pieces. If the weight of the hazardous material is measured in other than the above listed Weight Units of Measure, refer to X12 Standard, DE 355. Use LH101 to express type of packaging. ELEMENT CONDITION: Required if LH107 is used. At least one LH106/LH107 or LFH05/LFH06 are required to pass the HAZMAT unit of measure and quantity. If an English and Metric unit of measure are available, both are required. See Section 6 for list of data values.	C	ID	2/2	2	170	O	1	100	2	LH1	LH106 LH106 and LH107 are used to convey the quantity or volume and unit of measure for nonbulk shipments only.	355	O	ID	2/2
126-07	190	HAZMAT - Quantity Quantity refers to the amount (i.e., weight in pounds, volume in cubic feet, or other such measurement) of the hazardous material commodity that is to be transported.	C	R	1/15	2	170	O	1	100	2	LH1	LH107	380	O	R	1/15
126-09	190	HAZMAT - Residue Indicator Code Code indicating that the material being described is that which remains in a packaging (including a tank car) after it has been unloaded. Use code value 'R' to indicate that the unit being shipped is empty and contains a residue from a prior movement. SOURCE: 49 CFR 172.203(e) R - Residue Last Contained Description (Tank Car)	C	ID	1/1	2	170	O	1	100	2	LH1	LH109 In LH109, a value of "R" or "P" requires that the receiver generate the words "residue: last contained" prior to the shipping name in accordance with regulations.	665	O	ID	1/1

DoD INFORMATION						X12 SEGMENT INFORMATION							X12 ELEMENT INFORMATION				
Index	DG	Data Name Notes and Codes	DoD Recommended Attributes			Tabl	Pos	Req Des	Max Use	Lp Rpt	Lp Lvl	Lp ID	Ref Des	DE #	Attributes		
126-10	190	HAZMAT - Packing Group Code Indicate the required packing group using Roman Numeral I, II, or III to indicate the degree of danger. SOURCE: 49 CFR, Table 172.101	C	ID	1/3	2	170	O	1	100	2	LH1	LH110	254	O	ID	1/3
127	190	**LH2 SEGMENT - HAZMAT Classification** SEGMENT CONDITION: Required for loaded and unloaded HAZMAT shipments.	C			2	180	O	4	100	2	LH1					
							If either LH206 or LH207 is present, then the other is required. If either LH208 or LH209 is present, then the other is required. If either LH210 or LH211 is present, then the other is required.										
127-01	190	HAZMAT - Hazardous Class/Division Identify the hazard class or division prescribed for the material as shown in column 3 of 49 CFR Table 172.101. If there is no hazard class or division, use the code in that column, such as ORM-D (Other Regulated Material), reference 49 CFR 173.2. If there is a subsidiary hazard but no hazard class or division, use code value 'NA'. A material for which the entry in this column is 'Forbidden' may not be offered for transportation nor be transported. This segment needs to be repeated for each subsidiary hazard. SOURCE: 49 CFR 172.101;49 CFR 173.2 [T_6 71/72]	M	ID	1/30	2	180	O	4	100	2	LH1	LH201	215	O	ID	1/30
127-02	190	HAZMAT - Hazard Class Qualifier Repeat the LH2 segment as necessary to identify the primary and each subsidiary (secondary) hazard of the material being shipped. P - Primary S - Secondary	M	ID	1/1	2	180	O	4	100	2	LH1	LH202	983	O	ID	1/1
127-05	190	HAZMAT - Reportable Quantity For empty packagings or units containing the residue of a hazardous material. ELEMENT CONDITION: Required if necessary to indicate a reportable quantity is present in the shipment. SOURCE: 49 CFR 172.203(e) RQ - Reportable Quantity	C	ID	2/2	2	180	O	4	100	2	LH1	LH205	759	O	ID	2/2
127-06	190	HAZMAT Flashpoint Temperature Code ELEMENT CONDITION: Required if LH207 is used. CE - Centigrade, Celsius *Use 'CE' to denote Centigrade.* FA - Fahrenheit	C	ID	2/2	2	180	O	4	100	2	LH1	LH206	355	C	ID	2/2
							LH206 and LH207 indicate the flashpoint temperature.										

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		
127-07	190	HAZMAT Flashpoint Temperature	C	R	1/4	2	180	O	4	100	2	LH1	LH207	408	C	R	1/4
128	190	**LH3 SEGMENT - HAZMAT Names** SEGMENT CONDITION: Required for empty/unloaded HAZMAT shipments; this segment should contain the last contents shipping name.	C			2	190 If either LH301 or LH302 is present, then the other is required.	O	12	100	2	LH1					
128-01	190	HAZMAT - Proper Shipping Name MANDATORY for all hazardous material shipments including ammunition and explosives. Create additional LH301 segment(s) for remainder of Proper Shipping Name exceeding 25 characters. SOURCE: 49 CFR 172.101; 49 CFR 172.202 [T_9 D-15 54/79]	M	AN	1/25	2	190	O	12	100	2	LH1	LH301	224	C	AN	1/25
128-02	190	HAZMAT - Proper Shipping Name Qualifier C - Canadian Shipping Name D - Domestic (United States) Shipping Name I - International Shipping Name	M	ID	1/1	2	190	O	12	100	2	LH1	LH302	984	C	ID	1/1
128-03	190	HAZMAT - N.O.S. Indicator Code If this field is used, an LFH segment must follow using code value 'TEC' in LFH01. NOS - N.O.S. Regulatory Requirements Apply	C	ID	3/3	2	190	O	12	100	2	LH1	LH303	985	O	ID	3/3
129	190	**LFH SEGMENT - HAZMAT Remarks** SEGMENT CONDITION: Required for HAZMAT shipments requiring specific labeling.	C			2	191 If either LFH05 or LFH06 is present, then the other is required.	O	20	100	2	LH1					

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		
129-01	190	HAZMAT - Additional Basic Description Information Qualifier	M	ID	3/3	2	191	O	20	100	2	LH1	LFH01	808	M	ID	3/3
		Contains the hazardous material shipment information qualifier indicating the type of information being passed. MANDATORY for all explosives unless otherwise noted in 49 CFR 172.320. Use interim EX-number for explosives waiting for final classification.If the X12 code definition accompanying a LFH01 code value contains text in quotations, place the part in quotations in LFH02. If the code definition contains no quotations, see the user note in LFH02 for further guidance. Use code value 'ADI' to denote 'Other information not accounted for in the code list'. Use code value 'TEC' in this data element to indicate that the N.O.S. indicator is specified in LH303. Enter additional information that must appear in association with the shipment's basic description according to 49 CFR. Use additional occurrences of LFH segment as necessary for each code that applies to shipment. SOURCE: 49 CFR ADI - Additional Descriptive Information Not Required by Regulation but Desired to Accompany the Movement by the Shipper DWW - "Dangerous When Wet" Declaration HOT - Identifies Products in a Heated Molten State HZC - Hazardous Substance Constituents LQY - "Limited Quantity" Declaration MOS - Maximum Operating Speed MPI - Marine Pollutant PIH - "Poison - Inhalation Hazard" Declaration POI - Poison Declaration *Use 'POI' to denote "Poison" Declaration.* RAM - Radioactive Material Data TEC - Technical or Chemical Group Name																
129-02	190	HAZMAT - Additional Basic Description Information	M	AN	1/25	2	191	O	20	100	2	LH1	LFH02	809	M	AN	1/25
		Contains specific information about the hazardous material shipment. When applicable, use the descriptive narrative from LFH01. If LFH01 = 'ADI', use this element for any overflow information from LFH01 or 49 CFR except Proper Shipping Name. Use LFH03 for additional overflow. If LFH01 = 'PIH', enter 'Poisonous - Inhalation Hazard, Zone X', where X is the code designated in LFH04. If LFH01 = 'HOT', enter 'HOT' [See 49 CFR 172.203(n)]. If LFH01 = 'RAM', enter the appropriate text in quotes as specified by 49 CFR 172.203(d). If LFH01 = 'LQY', enter 'Ltd Qty' or 'Limited Quantity'. If LFH01 = 'HZC', enter 'Hazardous substance constituents.' If LFH01 = 'MOS', enter 'Maximum operating speed.' If LFH01 = 'MPI', enter 'Marine Pollutant.' For N.O.S. code (LFH01 = 'TEC'), enter the technical or chemical group name in parentheses. Place overflow in LFH03. Do not close parentheses until end of description is reached. [T_9 D-15 54/79]																

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		
129-03	190	HAZMAT - Additional Information Use for description overflow from LFH02. Use LFH01, 02, and 03 as a set and repeat loop as necessary to convey all additional basic description information.	C	AN	1/25	2	191	O	20	100	2	LH1	LFH03	809	O	AN	1/25
129-04	190	HAZMAT - Hazard Zone Code Contains the code specifying the Department of Transportation assigned zone designating the Inhalation Toxicity Hazard Zone. ELEMENT CONDITION: Use applicable Hazard Zone Code when LFH01 = PIH. A - Hazard Zone A B - Hazard Zone B C - Hazard Zone C D - Hazard Zone D	C	ID	1/1	2	191	O	20	100	2	LH1	LFH04	1023	O	ID	1/1
130	190	**LFH SEGMENT - Round Count** SEGMENT CONDITION: Required for TC-AIMS II moves only.	C			2	191 If either LFH05 or LFH06 is present, then the other is required.	O	20	100	2	LH1					
130-01	190	HAZMAT- Information Qualifier Use code value 'ADI' to satisfy X12 syntax requirements. ADI - Additional Descriptive Information Not Required by Regulation but Desired to Accompany the Movement by the Shipper	M	ID	3/3	2	191	O	20	100	2	LH1	LFH01	808	M	ID	3/3
130-02	190	HAZMAT- Round Count Identifier Specific information required by law for hazardous material shipments. Enter value 'CT' to indicate segment contains HAZMAT Round Count Information. CT	M	AN	2/2	2	191	O	20	100	2	LH1	LFH02	809	M	AN	1/25
130-05	190	HAZMAT- Round Count Qualifier RO - Round	M	ID	2/2	2	191	O	20	100	2	LH1	LFH05	355	C	ID	2/2
130-06	190	HAZMAT- Round Count	M	R	1/15	2	191 LFH06 indicates activity of the radioactive material.	O	20	100	2	LH1	LFH06	380	C	R	1/15
131	190	**LFH SEGMENT - HAZMAT Metric Weight** SEGMENT CONDITION: Required if LH107 is used. Use along with LH106 for HAZMAT explosive materials.	C			2	191 If either LFH05 or LFH06 is present, then the other is required.	O	20	100	2	LH1					

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		
131-01	190	HAZMAT- Information Qualifier Use code value 'ADI' to satisfy X12 syntax requirements. ADI - Additional Descriptive Information Not Required by Regulation but Desired to Accompany the Movement by the Shipper	M	ID	3/3	2	191	O	20	100	2	LH1	LFH01	808	M	ID	3/3
131-02	190	HAZMAT- Shipment Information Specific information required by law for hazardous material shipments. Enter value 'WT' to indicate segment contains HAZMAT Metric Weight Information. WT	M	AN	2/2	2	191	O	20	100	2	LH1	LFH02	809	M	AN	1/25
131-05	190	HAZMAT- Metric Measurement Code 2C - Roentgen 2Q - Kilobecquerel 2Y - Milliroentgen 40 - Milliliter per Second 4N - Megabecquerel GM - Grams per Sq. Meter GR - Gram H4 - Hectoliter HG - Hectogram KG - Kilogram KR - Kiloroentgen LT - Liter MC - Microgram ME - Milligram MG - Metric Gross Ton ML - Milliliter MP - Metric Ton R2 - Becquerel	C	ID	2/2	2	191	O	20	100	2	LH1	LFH05	355	C	ID	2/2

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		
131-06	190	HAZMAT- Metric Quantity Use the unit of measure codes for quantity or volume of non bulk shipments. This will typically be grams, cubic meters, or a unit of measure other than pieces. If the weight of the hazardous material is measured in other than the above listed Weight Units of Measure, refer to X12 Standard, DE 355. Use LH101 to express type of packaging. ELEMENT CONDITION: Required if LFH05 is used. At least one LH106/LH107 or LFH05/LFH06 are required to pass the HAZMAT unit of measure and quantity. If an English and Metric unit of measure are available, both are required.	C	R	1/15	2	191 LFH06 indicates activity of the radioactive material.	O	20	100	2	LH1	LFH06	380	C	R	1/15
132	190	**LFH SEGMENT - Net Explosive Weight (English)** SEGMENT CONDITION: Required for TC-AIMS II moves only.	C			2	191 If either LFH05 or LFH06 is present, then the other is required.	O	20	100	2	LH1					
132-01	190	HAZMAT - Information Qualifier Use code value 'ADI' to satisfy X12 syntax requirements. ADI - Additional Descriptive Information Not Required by Regulation but Desired to Accompany the Movement by the Shipper CAO - Cargo Airlift Only D13 - "DOT - 113, Do Not Bump or Cut Off Car While in Motion" Declaration DRC - Damaged Car Number DWW - "Dangerous When Wet" Declaration EMS - Emergency Schedule (EMS) Page Number HOT - Identifies Products in a Heated Molten State HZC - Hazardous Substance Constituents INH - Inhalation Hazard LQY - "Limited Quantity" Declaration MFA - Medical First Aid Guide (MFAG) Page Number MOS - Maximum Operating Speed MPI - Marine Pollutant PIH - "Poison - Inhalation Hazard" Declaration POI - Poison Declaration RAM - Radioactive Material Data TEC - Technical or Chemical Group Name TNM - Trade Name WST - Waste Declaration	M	ID	3/3	2	191	O	20	100	2	LH1	LFH01	808	M	ID	3/3

DoD INFORMATION						X12 SEGMENT INFORMATION							X12 ELEMENT INFORMATION				
Index	DG	Data Name Notes and Codes	DoD Recommended Attributes			Tabl	Pos	Req Des	Max Use	Lp Rpt	Lp Lvl	Lp ID	Ref Des	DE #	Attributes		
132-02	190	HAZMAT - Shipment Information Specific information required by law for hazardous material shipments. Enter value 'NX' to indicate segment contains HAZMAT English Weight Information. NX	M	AN	2/2	2	191	O	20	100	2	LH1	LFH02	809	M	AN	1/25
132-05	190	HAZMAT - English Net Explosive Weight Code GA - Gallon PN - Pounds Net	C	ID	2/2	2	191	O	20	100	2	LH1	LFH05	355	C	ID	2/2
132-06	190	HAZMAT - English Net Explosive Weight	C	R	1/15	2	191	O	20	100	2	LH1	LFH06	380	C	R	1/15
							LFH06 indicates activity of the radioactive material.										
133	190	**LFH SEGMENT - Net Explosive Weight (Metric)** SEGMENT CONDITION: Required for TC-AIMS II moves only.	C			2	191	O	20	100	2	LH1					
							If either LFH05 or LFH06 is present, then the other is required.										
133-01	190	HAZMAT - Shipment Information Qualifier Use code value 'ADI' to satisfy X12 syntax requirements. ADI - Additional Descriptive Information Not Required by Regulation but Desired to Accompany the Movement by the Shipper	M	ID	3/3	2	191	O	20	100	2	LH1	LFH01	808	M	ID	3/3
133-02	190	HAZMAT - Shipment Information Enter value 'NW' to indicate segment contains HAZMAT Metric Net Weight Information. NW	M	AN	2/2	2	191	O	20	100	2	LH1	LFH02	809	M	AN	1/25
133-05	190	HAZMAT - Metric Net Explosive Weight Code KG - Kilogram LT - Liter	C	ID	2/2	2	191	O	20	100	2	LH1	LFH05	355	C	ID	2/2
133-06	190	HAZMAT - Metric Net Explosive Weight	C	R	1/15	2	191	O	20	100	2	LH1	LFH06	380	C	R	1/15
							LFH06 indicates activity of the radioactive material.										
134	190	**LHR SEGMENT - DOT Explosive Approval Number (EX-number)** SEGMENT CONDITION: Required for shipment of explosive materials.	C			2	210	O	10	100	2	LH1					
134-01	190	HAZMAT - DOT Explosive Approval Number Qualifier HD - Department of Transportation Hazardous Number	M	ID	2/2	2	210	O	10	100	2	LH1	LHR01	128	M	ID	2/3

DoD INFORMATION						X12 SEGMENT INFORMATION							X12 ELEMENT INFORMATION				
Index	DG	Data Name Notes and Codes	DoD Recommended Attributes			Tabl	Pos	Req Des	Max Use	Lp Rpt	Lp Lvl	Lp ID	Ref Des	DE #	Attributes		
134-02	190	HAZMAT - DOT Explosive Approval Number (EX-number) Product codes and national stock numbers must be traceable to the specific EX-number (also referred to as hazard classification approval number) assigned by the Associate Administrator for Hazardous Materials Safety. SOURCE: 49 CFR 172.320 and 173.56(b) [T_6 80/80]	M	AN	1/30	2	210	O	10	100	2	LH1	LHR02	127	M	AN	1/30
135	190	**LHR SEGMENT - Competent Authority Approval Number** SEGMENT CONDITION: Use if competent authority approval is required.	C			2	210	O	10	100	2	LH1					
135-01	190	Competent Authority Approval Number Qualifier HA - Competent Authority	M	ID	2/2	2	210	O	10	100	2	LH1	LHR01	128	M	ID	2/3
135-02	190	Competent Authority Approval Number Issued by Department of Transportation, approval number is CA-YYNNNNA, where Y = year, N = approval number within that year, and A is an optional alphanumeric designator. Only applicable when DoD requires an exception to the international performance oriented packaging rules. [T_6 80/80]	M	AN	1/30	2	210	O	10	100	2	LH1	LHR02	127	M	AN	1/30
136	190	**LHR SEGMENT - DOT Exemption Number** SEGMENT CONDITION: Required when DOT exemption applies.	C			2	210	O	10	100	2	LH1					
136-01	190	DOT Exemption (DOT-E) Number Qualifier HE - Hazardous Exemption Number	M	ID	2/2	2	210	O	10	100	2	LH1	LHR01	128	M	ID	2/3
136-02	190	DOT Exemption (DOT-E) Number Identifies the DOT Exemption to any of the 49 CFR Regulations for hazardous materials. Normally used only for domestic shipments. Can be used for international shipments but is not guaranteed to be accepted by international customs. SOURCE: 49 CFR 172.2(a) [T_6 80/80]	M	AN	1/30	2	210	O	10	100	2	LH1	LHR02	127	M	AN	1/30
137	190	**LHR SEGMENT - Int'l Maritime Dangerous Goods Code** SEGMENT CONDITION: Use this segment if the hazardous shipment requires international regulation.	C			2	210	O	10	100	2	LH1					
137-01	190	HAZMAT - Int'l Maritime Dangerous Goods Code (IMDG) Qualifier IM - Intergovernmental Maritime Organization (IMO) Number	M	ID	2/2	2	210	O	10	100	2	LH1	LHR01	128	M	ID	2/3

DoD INFORMATION						X12 SEGMENT INFORMATION							X12 ELEMENT INFORMATION				
Index	DG	Data Name Notes and Codes	DoD Recommended Attributes			Tabl	Pos	Req Des	Max Use	Lp Rpt	Lp Lvl	Lp ID	Ref Des	DE #	Attributes		
137-02	190	HAZMAT - Int'l Maritime Dangerous Goods Code (IMDG) [T_6 80/80]	M	AN	1/30	2	210	O	10	100	2	LH1	LHR02	127	M	AN	1/30
138	190	**LHR SEGMENT - DoDIC** SEGMENT CONDITION: Required for TC-AIMS II moves only.	C			2	210	O	10	100	2	LH1					
138-01	190	DoDIC Qualifier Use '1I' for shipments by other than ocean. Use '6P' only for ocean shipments. 1I - Department of Defense Identification Code (DoDIC) 6P - Group Number	M	ID	2/2	2	210	O	10	100	2	LH1	LHR01	128	M	ID	2/3
138-02	190	DoDIC [T_9 D-15 67/70]	M	AN	1/30	2	210	O	10	100	2	LH1	LHR02	127	M	AN	1/30
139	190	**LHR SEGMENT - National Stock Number (NSN)** SEGMENT CONDITION: Required for TC-AIMS II moves only.	C			2	210	O	10	100	2	LH1					
139-01	190	HAZMAT - NSN Qualifier NS - National Stock Number	M	ID	2/2	2	210	O	10	100	2	LH1	LHR01	128	M	ID	2/3
139-02	190	HAZMAT - NSN [T_6 54/66]	M	AN	1/30	2	210	O	10	100	2	LH1	LHR02	127	M	AN	1/30
140	190	**FA1 SEGMENT - TCN Appropriation Number Loop** LOOP CONDITION: Use for appropriation assignment. Carriers do not need to receive appropriation data. This segment begins the appropriation number loop. It calls for both FA1 and FA2 segments. Shipper systems that are capable of receiving, storing, and sending structured DoD appropriation numbers may use this loop to exchange those numbers with trading partners. If there is only one Transportation Accounting Code or Line of Accounting at the header level, then it applies to all shipments in that container. If there is TAC/LOA at the header level, and some of the line items in the container have their own TACs/LOAs and some do not, use the TACs/LOAs at the line item level for those specific shipments and default to the header TAC/LOA for all others. If there is an invalid TAC/LOA on a single line item we will use the header TAC/LOA. If there is only one Transportation Accounting Code or Line of Accounting at the header level, then it applies to all shipments in that container. If there is TAC/LOA at the header level, and some of the line items in the container have their own TACs/LOAs and some do not, use the TACs/LOAs at the line item level for those specific shipments and default to the header TAC/LOA for all others. If there is an invalid TAC/LOA on a single line item we will use the header TAC/LOA.	C			2	230	O	1	>1	2	FA1					

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		
140-01	190	Agency Qualifier Code Code identifying the agency assigning the code values. DF - Department of Defense (DoD) DN - Department of the Navy DX - United States Marine Corps DY - Department of Air Force DZ - Department of Army HS - Department of Health and Human Services *Use 'HS' to denote Department of Homeland Security/US Coast Guard (DHS/USCG).*	M	ID	2/2	2	230 FA101 Identifies the organization controlling the assignment of financial accounting information.	O	1	>1	2	FA1	FA101	559	M	ID	2/2
141	190	**FA2 SEGMENT - TCN Appropriation Elements** SEGMENT CONDITION: This segment is MANDATORY if and only if the FA1 SEGMENT - TCN Appropriation Number Loop segment is used. Otherwise, this segment may not be used.	C			2	240	M	>1	>1	2	FA1					
141-01	190	Breakdown Structure Detail Code See Section 6 for list of data values.	M	ID	2/2	2	240	M	>1	>1	2	FA1	FA201	1196	M	ID	2/2
141-02	190	Financial Information Code When FA201 contains code value '84', FA202 should be formatted as a dollar amount including a decimal character and two positions after the decimal, representing cents even if the value is a whole dollar amount.	M	AN	1/80	2	240	M	>1	>1	2	FA1	FA202	1195	M	AN	1/80
142	190	**L10 SEGMENT - TCN Weight** SEGMENT CONDITION: Use when appropriation weight applies.	C			2	250	O	1	>1	2	FA1					
142-01	190	Weight Entry may contain a decimal; if not, decimal is assumed at right-most point of the field. [T_0 72/76]	M	R	1/10	2	250	O	1	>1	2	FA1	L1001	81	M	R	1/10
142-02	190	Weight Qualifier N - Actual Net Weight	M	ID	1/1	2	250	O	1	>1	2	FA1	L1002	187	M	ID	1/2

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		
142-03	190	Weight Unit Code 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	250	O	1	>1	2	FA1	L1003	188	O	ID	1/1
143	190	**NM1 SEGMENT - Personal Property Owner** LOOP CONDITION: Used only for OCEAN CARGO SHIPPING INSTRUCTIONS.	C			2	260	O	1	4	2	NM1					
							If either NM108 or NM109 is present, then the other is required. If NM111 is present, then NM110 is required.										
143-01	190	Personal Property Owner Qualifier OW - Owner of Property or Unit	M	ID	2/2	2	260	O	1	4	2	NM1	NM101	98	M	ID	2/3
143-02	190	Personal Property Owner Qualifier 1 - Person	M	ID	1/1	2	260	O	1	4	2	NM1	NM102	1065	M	ID	1/1
143-03	190	Personal Property Owner's Last Name [T_8 54/66]	M	AN	1/15	2	260	O	1	4	2	NM1	NM103	1035	O	AN	1/35
143-04	190	Personal Property Owner's First Name/Initial [T_8 67/67]	M	AN	1/15	2	260	O	1	4	2	NM1	NM104	1036	O	AN	1/25
144	73	**N1 SEGMENT - Mark For Addressee Information (MA)** LOOP CONDITION: Use this address loop when en-route consolidation activity or any other organization or system that handles the bill of lading data needs to know the ultimate destination of the shipment. This is needed particularly for OCONUS shipments where the bill of lading moves the freight to a port to change modes to air freight or ocean container.	C			2	290	O	1	4	2	N1					
							At least one of N102 or N103 is required. If either N103 or N104 is present, then the other is required.										
144-01	73	Name Qualifier (MA) This qualifier identifies name and address information of the 'Mark For' ultimate consignee. MA - Party for whom Item is Ultimately Intended	M	ID	2/2	2	290	O	1	4	2	N1	N101	98	M	ID	2/3

DoD INFORMATION						X12 SEGMENT INFORMATION							X12 ELEMENT INFORMATION				
Index	DG	Data Name Notes and Codes	DoD Recommended Attributes			Tabl	Pos	Req Des	Max Use	Lp Rpt	Lp Lvl	Lp ID	Ref Des	DE #	Attributes		
144-02	73	Name (MA) [TC1 9/14]	C	AN	1/35	2	290	O	1	4	2	N1	N102	93	C	AN	1/60
144-03	73	DoDAAC/CAGE/MAPAC Qualifier (MA) Do not use CAGE code for ocean shipments. 10 - Department of Defense Activity Address Code (DODAAC) 33 - Commercial and Government Entity (CAGE) A2 - Military Assistance Program Address Code (MAPAC)	M	ID	2/2	2	290	O	1	4	2	N1	N103	66	C	ID	1/2
144-04	73	DoDAAC/CAGE/MAPAC (MA) If DoDAAC/CAGE/MAPAC is unavailable, then N104 = 'XXXXXX' and the complete clear text name and address of the destination is required. [T_2 47/52]	M	AN	5/6	2	290	O	1	4	2	N1	N104	67	C	AN	2/80
													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.				
145	73	**N2 SEGMENT - Mark For Addressee Information (MA)** SEGMENT CONDITION: Use when mark for addressee applies.	C			2	300	O	2	4	2	N1					
145-01	73	Additional Name (MA)	M	AN	1/35	2	300	O	2	4	2	N1	N201	93	M	AN	1/60
146	73	**N3 SEGMENT - Mark For Addressee Information (MA)**	C			2	310	O	2	4	2	N1					
146-01	73	Street (MA)	M	AN	1/35	2	310	O	2	4	2	N1	N301	166	M	AN	1/55
146-02	73	Additional Addressing Information	C	AN	1/35	2	310	O	2	4	2	N1	N302	166	O	AN	1/55
147	73	**N4 SEGMENT - Mark For Addressee Information (MA)** SEGMENT CONDITION: Use when mark for addressee applies.	C			2	320	O	1	4	2	N1					
							If N406 is present, then N405 is required.										
147-01	73	City (MA)	C	AN	2/19	2	320	O	1	4	2	N1	N401	19	O	AN	2/30
							A combination of either N401 through N404, or N405 and N406 may be adequate to specify a location.										
147-02	73	State or Province Code (MA) SOURCE: National Zip Code and Post Office Directory available from U.S. Postal Service National Information Data Center	C	ID	2/2	2	320	O	1	4	2	N1	N402	156	O	ID	2/2
							N402 is required only if city name (N401) is in the U.S. or Canada.										
147-03	73	ZIP Code/Postal Code (MA) 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	320	O	1	4	2	N1	N403	116	O	ID	3/15

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		
147-04	73	Country Code (MA) ELEMENT CONDITION: If mark for addressee is OCONUS, country code is required. SOURCE: Code for Representation of Names of Countries, Geopolitical Entities, Names, and Codes (GENC), is represented in the National System for Geospatial Intelligence (NSG) GENC Registry and mirrored at http://www.transcom.mil/dteb/files/refdata/V_CTRY_DOD.htm. Codes for Representation of Currencies and Funds, ISO 4217, is available from American National Standards Institute.	C	ID	2/3	2	320	O	1	4	2	N1	N404	26	O	ID	2/3
148	200	**HL SEGMENT - Gross Weight Description Loop** LOOP CONDITION: Use when gross weight description applies.	C			2	010	M	1	>1	1	HL					
							The HL segment is used to identify levels of detail information using a hierarchical structure, such as relating line-item data to shipment data, and packaging data to line-item data. The HL segment defines a top-down/left-right ordered structure.										
148-01	200	Detail - Gross Weight Description Use the value '1' for the first HL loop and increment by 1 for each successive HL loop regardless of usage of the HL loop. This segment begins the loop used to describe weights that apply to the entire shipment.	M	N0	1/12	2	010	M	1	>1	1	HL	HL01	628	M	AN	1/12
							HL01 shall contain a unique alphanumeric number for each occurrence of the HL segment in the transaction set. For example, HL01 could be used to indicate the number of occurrences of the HL segment, in which case the value of HL01 would be "1" for the initial HL segment and would be incremented by one in each subsequent HL segment within the transaction.										
148-03	200	Hierarchical Level Code This code identifies the Gross Weight Description Loop. PH - Product Characteristic	M	ID	2/2	2	010	M	1	>1	1	HL	HL03	735	M	ID	1/2
							HL03 indicates the context of the series of segments following the current HL segment up to the next occurrence of an HL segment in the transaction. For example, HL03 is used to indicate that subsequent segments in the HL loop form a logical grouping of data referring to shipment, order, or item-level information.										
149	200	**L0 SEGMENT - Shipment Gross Weight** LOOP CONDITION: This segment is required if and only if HL SEGMENT - Gross Weight Description Loop is used.	C			2	145	O	1	20	2	L0					
							If either L002 or L003 is present, then the other is required. If either L004 or L005 is present, then the other is required. If either L006 or L007 is present, then the other is required. If either L008 or L009 is present, then the other is required. If L011 is present, then L004 is required. If either L013 or L015 is present, then the other is required.										
149-04	200	Shipment Gross Weight The total weight for the shipment. This weight includes the shipment net weight plus the tare weight. Entry may contain a decimal; if not, decimal is assumed at right-most point of the field. [T_2 72/76]	M	R	1/10	2	145	O	1	20	2	L0	L004	81	C	R	1/10
149-05	200	Shipment Gross Weight Qualifier G - Gross Weight	M	ID	1/1	2	145	O	1	20	2	L0	L005	187	C	ID	1/2

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		
149-11	200	Shipment Gross Weight Unit Qualifier E - Metric Ton G - Grams K - Kilograms L - Pounds M - Measurement Ton O - Ounces S - Short Ton T - Long Ton	M	ID	1/1	2	145	O	1	20	2	L0	L011	188	O	ID	1/1
150	200	**HL SEGMENT - Detail - Tare Weight Description Loop** LOOP CONDITION: Use when tare weight description is required.	C			2	010	M	1	>1	1	HL					
							The HL segment is used to identify levels of detail information using a hierarchical structure, such as relating line-item data to shipment data, and packaging data to line-item data. The HL segment defines a top-down/left-right ordered structure.										
150-01	200	Detail - Tare Weight Description Loop Use the value '1' for the first HL loop and increment by 1 for each successive HL loop regardless of usage of the HL loop. This segment begins the loop used to describe tare weights that apply to the entire shipment.	M	N0	1/12	2	010	M	1	>1	1	HL	HL01	628	M	AN	1/12
							HL01 shall contain a unique alphanumeric number for each occurrence of the HL segment in the transaction set. For example, HL01 could be used to indicate the number of occurrences of the HL segment, in which case the value of HL01 would be "1" for the initial HL segment and would be incremented by one in each subsequent HL segment within the transaction.										
150-03	200	Hierarchical Level Code This code identifies the Tare Weight Description Loop. PH - Product Characteristic	M	ID	2/2	2	010	M	1	>1	1	HL	HL03	735	M	ID	1/2
							HL03 indicates the context of the series of segments following the current HL segment up to the next occurrence of an HL segment in the transaction. For example, HL03 is used to indicate that subsequent segments in the HL loop form a logical grouping of data referring to shipment, order, or item-level information.										
151	200	**L0 SEGMENT - Shipment Tare Weight** LOOP CONDITION: Required if and only if HL SEGMENT - Detail - Tare Weight Description Loop is used.	C			2	145	O	1	20	2	L0					
							If either L002 or L003 is present, then the other is required. If either L004 or L005 is present, then the other is required. If either L006 or L007 is present, then the other is required. If either L008 or L009 is present, then the other is required. If L011 is present, then L004 is required. If either L013 or L015 is present, then the other is required.										
151-04	200	Shipment Tare Weight The actual tare weight of the shipment. Tare weight is the weight of the truck or container. Entry may contain a decimal; if not, decimal is assumed at right-most point of the field. [T_2 72/76]	M	R	1/8	2	145	O	1	20	2	L0	L004	81	C	R	1/10
151-05	200	Shipment Tare Weight Qualifier T - Tare Weight	M	ID	1/1	2	145	O	1	20	2	L0	L005	187	C	ID	1/2

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		
151-11	200	Shipment Tare Weight Unit Qualifier E - Metric Ton G - Grams K - Kilograms L - Pounds M - Measurement Ton O - Ounces S - Short Ton T - Long Ton	M	ID	1/1	2	145	O	1	20	2	L0	L011	188	O	ID	1/1
152	200	**HL SEGMENT - Net Weight Description Loop** The HL Net Weight Description Loop must occur for the shipment net weight. The HL Net Weight Description Loop must occur for the shipment net weight.	M			2	010	M	1	>1	1	HL					
							The HL segment is used to identify levels of detail information using a hierarchical structure, such as relating line-item data to shipment data, and packaging data to line-item data. The HL segment defines a top-down/left-right ordered structure.										
152-01	200	Detail - Net Weight Description Loop Use the value '1' for the first HL loop and increment by 1 for each successive HL loop regardless of usage of the HL loop. This segment begins the loop used to describe net weights that apply to the entire shipment.	M	N0	1/12	2	010	M	1	>1	1	HL	HL01	628	M	AN	1/12
							HL01 shall contain a unique alphanumeric number for each occurrence of the HL segment in the transaction set. For example, HL01 could be used to indicate the number of occurrences of the HL segment, in which case the value of HL01 would be "1" for the initial HL segment and would be incremented by one in each subsequent HL segment within the transaction.										
152-03	200	Hierarchical Level Code This code identifies the Net Weight Description Loop. PH - Product Characteristic	M	ID	2/2	2	010	M	1	>1	1	HL	HL03	735	M	ID	1/2
							HL03 indicates the context of the series of segments following the current HL segment up to the next occurrence of an HL segment in the transaction. For example, HL03 is used to indicate that subsequent segments in the HL loop form a logical grouping of data referring to shipment, order, or item-level information.										
153	200	**L0 SEGMENT - Shipment Net Weight**	M			2	145	O	1	20	2	L0					
							If either L002 or L003 is present, then the other is required. If either L004 or L005 is present, then the other is required. If either L006 or L007 is present, then the other is required. If either L008 or L009 is present, then the other is required. If L011 is present, then L004 is required. If either L013 or L015 is present, then the other is required.										
153-04	200	Shipment Net Weight The net weight of the shipment. Net weight = freight weight + skid weight + pallet weight + dunnage weight. Entry may contain a decimal; if not, decimal is assumed at right-most point of the field. [T_2 72/76]	M	R	1/8	2	145	O	1	20	2	L0	L004	81	C	R	1/10
153-05	200	Shipment Net Weight Qualifier N - Actual Net Weight	M	ID	1/1	2	145	O	1	20	2	L0	L005	187	C	ID	1/2

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		
153-11	200	Shipment Net Weight Unit Qualifier E - Metric Ton G - Grams K - Kilograms L - Pounds M - Measurement Ton O - Ounces S - Short Ton T - Long Ton	M	ID	1/1	2	145	O	1	20	2	L0	L011	188	O	ID	1/1
154	200	**HL SEGMENT - Net Explosive Weight Description Loop (English)** LOOP CONDITION: Required if the Defense Transportation Tracking System (DTTS) is required and the shipment is an explosive danger.	C			2	010	M	1	>1	1	HL					
							The HL segment is used to identify levels of detail information using a hierarchical structure, such as relating line-item data to shipment data, and packaging data to line-item data. The HL segment defines a top-down/left-right ordered structure.										
154-01	200	Detail - Net Explosive Weight Description Loop (English) Use the value '1' for the first HL loop and increment by 1 for each successive HL loop regardless of usage of the HL loop. This segment begins the loop used to describe English weights that apply to the entire shipment.	M	N0	1/12	2	010	M	1	>1	1	HL	HL01	628	M	AN	1/12
							HL01 shall contain a unique alphanumeric number for each occurrence of the HL segment in the transaction set. For example, HL01 could be used to indicate the number of occurrences of the HL segment, in which case the value of HL01 would be "1" for the initial HL segment and would be incremented by one in each subsequent HL segment within the transaction.										
154-03	200	Hierarchical Level Code This code identifies the Net Explosive Weight Description (English) Loop. PH - Product Characteristic	M	ID	1/2	2	010	M	1	>1	1	HL	HL03	735	M	ID	1/2
							HL03 indicates the context of the series of segments following the current HL segment up to the next occurrence of an HL segment in the transaction. For example, HL03 is used to indicate that subsequent segments in the HL loop form a logical grouping of data referring to shipment, order, or item-level information.										
155	200	**L0 SEGMENT - Shipment Net Explosive Weight (Dry)** LOOP CONDITION: Required if and only if HL SEGMENT - Net Explosive Weight Description Loop (English) Loop is used. Then, it is required to satisfy X12 syntax whether explosive is dry or wet.	C			2	145	O	1	20	2	L0					
							If either L002 or L003 is present, then the other is required. If either L004 or L005 is present, then the other is required. If either L006 or L007 is present, then the other is required. If either L008 or L009 is present, then the other is required. If L011 is present, then L004 is required. If either L013 or L015 is present, then the other is required.										
155-04	200	Shipment Net Explosive Weight (Dry) Entry may contain a decimal; if not, decimal is assumed at right-most point of the field. If explosive is wet, enter value zero (0) to satisfy X12 syntax. ELEMENT CONDITION: Enter net explosive weight if explosive is dry. [T_2 72/76]	C	R	1/8	2	145	O	1	20	2	L0	L004	81	C	R	1/10

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		
155-05	200	Shipment Net Explosive Weight Qualifier This element is required to satisfy X12 syntax whether explosive is dry or wet. CE - Certified Weight of Cargo	M	ID	2/2	2	145	O	1	20	2	L0	L005	187	C	ID	1/2
155-11	200	Shipment Net Explosive Weight Qualifier (Dry) ELEMENT CONDITION: Use this element only if explosive is dry. 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	145	O	1	20	2	L0	L011	188	O	ID	1/1
156	200	**MEA SEGMENT - Shipment Net Explosive Weight (Wet)** SEGMENT CONDITION: Use this segment only if explosive is wet.	C			2	160	O	10	20	2	L0					
							At least one of MEA03, MEA05, MEA06, or MEA08 is required. If MEA05 is present, then MEA04 is required. If MEA06 is present, then MEA04 is required. If MEA07 is present, then at least one of MEA03, MEA05, or MEA06 is required. Only one of MEA08 or MEA03 may be present.										
156-01	200	Shipment Net Explosive Weight Qualifier (Wet) NX - Net Explosive Weight	M	ID	2/2	2	160	O	10	20	2	L0	MEA01	737	O	ID	2/2
156-03	200	Shipment Net Explosive Weight (Wet) Entry may contain a decimal; if not, decimal is assumed at right-most point of the field. [T_9 D-21 13/16]	M	R	1/8	2	160	O	10	20	2	L0	MEA03	739	C	R	1/20
156-04		Composite Unit of Measure (Wet) 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	160	O	10	20	2	L0	MEA04	C001	C	CE	
156-04-01		Shipment Net Explosive Weight Qualifier (Wet) By placing code value 'GA' (DE 355 unit qualifier) in the C00101, you are satisfying X12 syntax requirements for the composite data element. GA - Gallon	M	ID	2/2	2	160	C	10	20	2	L0	C00101	355	M	ID	2/2

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		
157	200	**HL SEGMENT - Net Explosive Weight Description Loop (Metric)** LOOP CONDITION: Required if the Defense Transportation Tracking System (DTTS) is required and the shipment is an explosive danger.	C			2	010	M	1	>1	1	HL					
							The HL segment is used to identify levels of detail information using a hierarchical structure, such as relating line-item data to shipment data, and packaging data to line-item data. The HL segment defines a top-down/left-right ordered structure.										
157-01	200	Detail - Net Explosive Weight Description Loop (Metric) Use the value '1' for the first HL loop and increment by 1 for each successive HL loop regardless of usage of the HL loop. This segment begins the loop used to describe Net Explosive Weights (Metric) that apply to the entire shipment.	M	N0	1/12	2	010	M	1	>1	1	HL	HL01	628	M	AN	1/12
							HL01 shall contain a unique alphanumeric number for each occurrence of the HL segment in the transaction set. For example, HL01 could be used to indicate the number of occurrences of the HL segment, in which case the value of HL01 would be "1" for the initial HL segment and would be incremented by one in each subsequent HL segment within the transaction.										
157-03	200	Hierarchical Level Code This code identifies the Net Explosive Weight Description (Metric) Loop. PH - Product Characteristic	M	ID	2/2	2	010	M	1	>1	1	HL	HL03	735	M	ID	1/2
							HL03 indicates the context of the series of segments following the current HL segment up to the next occurrence of an HL segment in the transaction. For example, HL03 is used to indicate that subsequent segments in the HL loop form a logical grouping of data referring to shipment, order, or item-level information.										
158	200	**L0 SEGMENT - Shipment Net Explosive Weight (Dry)**	C			2	145	O	1	20	2	L0					
							If either L002 or L003 is present, then the other is required. If either L004 or L005 is present, then the other is required. If either L006 or L007 is present, then the other is required. If either L008 or L009 is present, then the other is required. If L011 is present, then L004 is required. If either L013 or L015 is present, then the other is required.										
158-04	200	Shipment Net Explosive Weight (Dry) Use value zero (0) to satisfy X12 syntax. [T_2 72/76]	M	R	1/8	2	145	O	1	20	2	L0	L004	81	C	R	1/10
158-05	200	Shipment Net Explosive Weight Qualifier This element is required to satisfy X12 syntax whether explosive is dry or wet. CE - Certified Weight of Cargo	M	ID	2/2	2	145	O	1	20	2	L0	L005	187	C	ID	1/2

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		
158-11	200	Shipment Net Explosive Weight Qualifier (Dry) ELEMENT CONDITION: Use this element only if explosive is dry. 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	145	O	1	20	2	L0	L011	188	O	ID	1/1
159	200	**MEA SEGMENT - Shipment Net Explosive Weight (Wet)** SEGMENT CONDITION: Use this segment only if explosive is wet.	C			2	160	O	10	20	2	L0					
							At least one of MEA03, MEA05, MEA06, or MEA08 is required. If MEA05 is present, then MEA04 is required. If MEA06 is present, then MEA04 is required. If MEA07 is present, then at least one of MEA03, MEA05, or MEA06 is required. Only one of MEA08 or MEA03 may be present.										
159-01	200	Shipment Net Explosive Weight Qualifier (Wet) NX - Net Explosive Weight	M	ID	2/2	2	160	O	10	20	2	L0	MEA01	737	O	ID	2/2
159-03	200	Shipment Net Explosive Weight (Wet) Entry may contain a decimal; if not, decimal is assumed at right-most point of the field. [T_9 D-21 13/16]	M	R	1/8	2	160	O	10	20	2	L0	MEA03	739	C	R	1/20
159-04		Composite Unit of Measure 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	160	O	10	20	2	L0	MEA04	C001	C	CE	
159-04-01		Shipment Net Explosive Weight Qualifier (Wet) By placing code value 'LT' (DE 355 unit qualifier) in the C00101, you are satisfying X12 syntax requirements for the composite data element. LT - Liter	M	ID	2/2	2	160	C	10	20	2	L0	C00101	355	M	ID	2/2
160	200	**HL SEGMENT - Dunnage Weight Description Loop** LOOP CONDITION: Required if dunnage weight description Loop is required.	C			2	010	M	1	>1	1	HL					
							The HL segment is used to identify levels of detail information using a hierarchical structure, such as relating line-item data to shipment data, and packaging data to line-item data. The HL segment defines a top-down/left-right ordered structure.										

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		
160-01	200	Detail - Dunnage Weight Description Loop Use the value '1' for the first HL loop and increment by 1 for each successive HL loop regardless of usage of the HL loop. This segment begins the loop used to describe Dunnage Weights that apply to the entire shipment.	M	N0	1/12	2	010	M	1	>1	1	HL	HL01	628	M	AN	1/12
							HL01 shall contain a unique alphanumeric number for each occurrence of the HL segment in the transaction set. For example, HL01 could be used to indicate the number of occurrences of the HL segment, in which case the value of HL01 would be "1" for the initial HL segment and would be incremented by one in each subsequent HL segment within the transaction.										
160-03	200	Hierarchical Level Code This code identifies the Dunnage Weight Description Loop. PH - Product Characteristic	M	ID	2/2	2	010	M	1	>1	1	HL	HL03	735	M	ID	1/2
							HL03 indicates the context of the series of segments following the current HL segment up to the next occurrence of an HL segment in the transaction. For example, HL03 is used to indicate that subsequent segments in the HL loop form a logical grouping of data referring to shipment, order, or item-level information.										
161	200	**L0 SEGMENT - Shipment Dunnage Weight** LOOP CONDITION: Required if and only if HL SEGMENT - Dunnage Weight Description Loop is used.	C			2	145	O	1	20	2	L0					
							If either L002 or L003 is present, then the other is required. If either L004 or L005 is present, then the other is required. If either L006 or L007 is present, then the other is required. If either L008 or L009 is present, then the other is required. If L011 is present, then L004 is required. If either L013 or L015 is present, then the other is required.										
161-04	200	Shipment Dunnage Weight Entry may contain a decimal; if not, decimal is assumed at right-most point of the field. [T_2 72/76]	M	R	1/8	2	145	O	1	20	2	L0	L004	81	C	R	1/10
161-05	200	Shipment Dunnage Weight Qualifier CD - Chargeable Dunnage	M	ID	2/2	2	145	O	1	20	2	L0	L005	187	C	ID	1/2
161-11	200	Shipment Dunnage Weight Unit Qualifier E - Metric Ton G - Grams K - Kilograms L - Pounds M - Measurement Ton O - Ounces S - Short Ton T - Long Ton	M	ID	1/1	2	145	O	1	20	2	L0	L011	188	O	ID	1/1
162	200	**HL SEGMENT - Pallet Weight Description Loop** LOOP CONDITION: Required if pallet weight applies.	C			2	010	M	1	>1	1	HL					
							The HL segment is used to identify levels of detail information using a hierarchical structure, such as relating line-item data to shipment data, and packaging data to line-item data. The HL segment defines a top-down/left-right ordered structure.										

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		
162-01	200	Detail - Pallet Weight Description Loop Use the value '1' for the first HL loop and increment by 1 for each successive HL loop regardless of usage of the HL loop. This segment begins the loop used to describe pallet weights that apply to the entire shipment.	M	N0	1/12	2	010 HL01 shall contain a unique alphanumeric number for each occurrence of the HL segment in the transaction set. For example, HL01 could be used to indicate the number of occurrences of the HL segment, in which case the value of HL01 would be "1" for the initial HL segment and would be incremented by one in each subsequent HL segment within the transaction.	M	1	>1	1	HL	HL01	628	M	AN	1/12
162-03	200	Hierarchical Level Code This code identifies the Pallet Weight Description Loop. PH - Product Characteristic	M	ID	2/2	2	010 HL03 indicates the context of the series of segments following the current HL segment up to the next occurrence of an HL segment in the transaction. For example, HL03 is used to indicate that subsequent segments in the HL loop form a logical grouping of data referring to shipment, order, or item-level information.	M	1	>1	1	HL	HL03	735	M	ID	1/2
163	200	**L0 SEGMENT - Shipment Pallet Weight** LOOP CONDITION: Required if and only if HL SEGMENT - Pallet Weight Description Loop is used.	C			2	145 If either L002 or L003 is present, then the other is required. If either L004 or L005 is present, then the other is required. If either L006 or L007 is present, then the other is required. If either L008 or L009 is present, then the other is required. If L011 is present, then L004 is required. If either L013 or L015 is present, then the other is required.	O	1	20	2	L0					
163-04	200	Shipment Pallet Weight Entry may contain a decimal; if not, decimal is assumed at right-most point of the field. [T_2 72/76]	M	R	1/8	2	145	O	1	20	2	L0	L004	81	C	R	1/10
163-05	200	Shipment Pallet Weight Qualifier PA - Pallet Weight	M	ID	2/2	2	145	O	1	20	2	L0	L005	187	C	ID	1/2
163-11	200	Shipment Pallet Weight Unit Qualifier E - Metric Ton G - Grams K - Kilograms L - Pounds M - Measurement Ton O - Ounces S - Short Ton T - Long Ton	M	ID	1/1	2	145	O	1	20	2	L0	L011	188	O	ID	1/1
164	200	**HL SEGMENT - Skid Weight Description Loop** LOOP CONDITION: Required if skid weight is required.	C			2	010 The HL segment is used to identify levels of detail information using a hierarchical structure, such as relating line-item data to shipment data, and packaging data to line-item data. The HL segment defines a top-down/left-right ordered structure.	M	1	>1	1	HL					

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		
164-01	200	Detail - Skid Weight Description Loop Use the value '1' for the first HL loop and increment by 1 for each successive HL loop regardless of usage of the HL loop. This segment begins the loop used to describe skid weights that apply to the entire shipment.	M	N0	1/12	2	010	M	1	>1	1	HL	HL01	628	M	AN	1/12
							HL01 shall contain a unique alphanumeric number for each occurrence of the HL segment in the transaction set. For example, HL01 could be used to indicate the number of occurrences of the HL segment, in which case the value of HL01 would be "1" for the initial HL segment and would be incremented by one in each subsequent HL segment within the transaction.										
164-03	200	Hierarchical Level Code This code identifies the Skid Weight Description Loop. PH - Product Characteristic	M	ID	2/2	2	010	M	1	>1	1	HL	HL03	735	M	ID	1/2
							HL03 indicates the context of the series of segments following the current HL segment up to the next occurrence of an HL segment in the transaction. For example, HL03 is used to indicate that subsequent segments in the HL loop form a logical grouping of data referring to shipment, order, or item-level information.										
165	200	**L0 SEGMENT - Shipment Skid Weight** LOOP CONDITION: Required if and only if HL SEGMENT - Skid Weight Description Loop is used.	C			2	145	O	1	20	2	L0					
							If either L002 or L003 is present, then the other is required. If either L004 or L005 is present, then the other is required. If either L006 or L007 is present, then the other is required. If either L008 or L009 is present, then the other is required. If L011 is present, then L004 is required. If either L013 or L015 is present, then the other is required.										
165-04	200	Shipment Skid Weight Entry may contain a decimal; if not, decimal is assumed at right-most point of the field. [T_2 72/76]	M	R	1/8	2	145	O	1	20	2	L0	L004	81	C	R	1/10
165-05	200	Shipment Skid Weight Qualifier SK - Skid Weight	M	ID	2/2	2	145	O	1	20	2	L0	L005	187	C	ID	1/2
165-11	200	Shipment Skid Weight Unit Qualifier E - Metric Ton G - Grams K - Kilograms L - Pounds M - Measurement Ton O - Ounces S - Short Ton T - Long Ton	M	ID	1/1	2	145	O	1	20	2	L0	L011	188	O	ID	1/1
166	200	**HL SEGMENT - Freight Weight Description Loop**	M			2	010	M	1	>1	1	HL					
							The HL segment is used to identify levels of detail information using a hierarchical structure, such as relating line-item data to shipment data, and packaging data to line-item data. The HL segment defines a top-down/left-right ordered structure.										

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		
166-01	200	Detail - Freight Weight Description Loop Use the value '1' for the first HL loop and increment by 1 for each successive HL loop regardless of usage of the HL loop. This segment begins the loop used to describe freight weights that apply to the entire shipment.	M	N0	1/12	2	010	M	1	>1	1	HL	HL01	628	M	AN	1/12
							HL01 shall contain a unique alphanumeric number for each occurrence of the HL segment in the transaction set. For example, HL01 could be used to indicate the number of occurrences of the HL segment, in which case the value of HL01 would be "1" for the initial HL segment and would be incremented by one in each subsequent HL segment within the transaction.										
166-03	200	Hierarchical Level Code This code identifies the Freight Weight Description Loop. PH - Product Characteristic	M	ID	2/2	2	010	M	1	>1	1	HL	HL03	735	M	ID	1/2
							HL03 indicates the context of the series of segments following the current HL segment up to the next occurrence of an HL segment in the transaction. For example, HL03 is used to indicate that subsequent segments in the HL loop form a logical grouping of data referring to shipment, order, or item-level information.										
167	200	**L0 SEGMENT - Shipment Freight Weight**	M			2	145	O	1	20	2	L0					
							If either L002 or L003 is present, then the other is required. If either L004 or L005 is present, then the other is required. If either L006 or L007 is present, then the other is required. If either L008 or L009 is present, then the other is required. If L011 is present, then L004 is required. If either L013 or L015 is present, then the other is required.										
167-04	200	Shipment Freight Weight Freight weight is the weight that line haul rate is based upon and may include skid, pallet, and dunnage weights, carried in separate MEA segments. The freight weight for all commodities should be accumulated and carried in the data element. Entry may contain a decimal; if not, decimal is assumed at right-most point of the field. [T_2 72/76]	C	R	1/8	2	145	O	1	20	2	L0	L004	81	C	R	1/10
167-05	200	Shipment Freight Weight Qualifier FR - Freight Weight	C	ID	2/2	2	145	O	1	20	2	L0	L005	187	C	ID	1/2
167-11	200	Shipment Freight Weight Unit Qualifier E - Metric Ton G - Grams K - Kilograms L - Pounds M - Measurement Ton O - Ounces S - Short Ton T - Long Ton	M	ID	1/1	2	145	O	1	20	2	L0	L011	188	O	ID	1/1
168	300	**HL SEGMENT - Accessorial/Protective Services Loop** LOOP CONDITION: Required if the shipment calls for accessorial or protective service. One HL Accessorial/Protective Services Loop must occur for each service ordered.	C			2	010	M	1	>1	1	HL					
							The HL segment is used to identify levels of detail information using a hierarchical structure, such as relating line-item data to shipment data, and packaging data to line-item data. The HL segment defines a top-down/left-right ordered structure.										

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		
168-01	300	Detail - Accessorial/Protective Services Loop Use the value '1' for the first HL loop and increment by 1 for each successive HL loop regardless of usage of the HL loop. This segment begins the Accessorial/Protective Services Loop. See Section 5.0 (DTEB Freight Bill of Lading Shipment Information Implementation Convention) for looping logic and examples.	M	N0	1/12	2	010 HL01 shall contain a unique alphanumeric number for each occurrence of the HL segment in the transaction set. For example, HL01 could be used to indicate the number of occurrences of the HL segment, in which case the value of HL01 would be "1" for the initial HL segment and would be incremented by one in each subsequent HL segment within the transaction.	M	1	>1	1	HL	HL01	628	M	AN	1/12
168-03	300	Hierarchical Level Code This code identifies the Accessorial/Protective Services Loop. SS - Services	M	ID	2/2	2	010 HL03 indicates the context of the series of segments following the current HL segment up to the next occurrence of an HL segment in the transaction. For example, HL03 is used to indicate that subsequent segments in the HL loop form a logical grouping of data referring to shipment, order, or item-level information.	M	1	>1	1	HL	HL03	735	M	ID	1/2
169	300	**N7 SEGMENT - Primary Equipment Identifier** SEGMENT CONDITION: Required if the shipment moves on multiple pieces of equipment and the accessorial/protective service applies to a particular piece of equipment. Do not use this segment if the accessorial/protective service applies to the whole shipment.	C			2	020 If either N703 or N704 is present, then the other is required. If either N705 or N716 is present, then the other is required. If either N708 or N709 is present, then the other is required.	O	1	>1	1	HL					
169-01	300	Equipment Initial This data element satisfies in transit visibility requirements for multi-equipment shipments. It describes initials of the furnished primary equipment in/on which the commodity is conveyed. ELEMENT CONDITION: If the value in N702 is other than 'NONE', or the equipment initials are not available, use the SCAC. SOURCE: IATA Unit Load Devices Manual available from International Air Transport Association [T_2 9/12]	C	AN	1/4	2	020 N701 is mandatory for rail transactions.	O	1	>1	1	HL	N701	206	O	AN	1/4
169-02	300	Equipment Number This data element satisfies in transit visibility requirements for multi-equipment shipments. It describes numbers on the furnished primary equipment in/on which the commodity is conveyed. [T_4 9/14]	M	AN	1/10	2	020	O	1	>1	1	HL	N702	207	M	AN	1/10
170	300	**N9 SEGMENT - Service Performed** SEGMENT CONDITION: Required for accessorial/protective services.	C			2	100 At least one of N902 or N903 is required. If N906 is present, then N905 is required.	O	10	>1	1	HL					
170-01	300	Service Performed Identifier 1P - Accessorial Status Code	M	ID	2/2	2	100	O	10	>1	1	HL	N901	128	M	ID	2/3
170-02	300	Service Performed Date Qualifier Use the following value to denote the DoD definition as indicated: DP - Date Service was Performed [T_9 D-13 78/79]	C	AN	2/2	2	100	O	10	>1	1	HL	N902	127	C	AN	1/30

DoD INFORMATION						X12 SEGMENT INFORMATION							X12 ELEMENT INFORMATION				
Index	DG	Data Name Notes and Codes	DoD Recommended Attributes			Tabl	Pos	Req Des	Max Use	Lp Rpt	Lp Lvl	Lp ID	Ref Des	DE #	Attributes		
170-04	300	Service Performed Date The date the service was performed.	C	DT	8/8	2	100	O	10	>1	1	HL	N904	373	O	DT	8/8
171	300	**N9 SEGMENT - Stop Sequence Number** SEGMENT CONDITION: Required if stop-offs occur.	C			2	100	O	10	>1	1	HL					
							At least one of N902 or N903 is required. If N906 is present, then N905 is required.										
171-01	300	Stop Sequence Number Qualifier QN - Stop Sequence Number	M	ID	2/2	2	100	O	10	>1	1	HL	N901	128	M	ID	2/3
171-02	300	Stop Sequence Number If stops apply to a shipment, a service code is identified with a stop by carrying the sequence number of the stop address in this data element. That sequence number appears in the S5 segment in the header area of the transaction set.	M	N0	1/2	2	100	O	10	>1	1	HL	N902	127	C	AN	1/30
172	300	**L0 SEGMENT - Service Units** LOOP CONDITION: Required if and only if HL SEGMENT - Accessorial/Protective Services Loop is used.	C			2	145	O	1	20	2	L0					
							If either L002 or L003 is present, then the other is required. If either L004 or L005 is present, then the other is required. If either L006 or L007 is present, then the other is required. If either L008 or L009 is present, then the other is required. If L011 is present, then L004 is required. If either L013 or L015 is present, then the other is required.										
172-01	300	Service Loop Identifier Use value '300' to indicate service loop.	M	N0	3/3	2	145	O	1	20	2	L0	L001	213	O	N0	1/3
172-02	300	Service Units The number of units (i.e. hours, 100 weight, etc.) for a specific additional service performed by the carrier. If this number is fractional, carry the decimal; if an integer, a decimal is not required. If service units do not apply, leave L002 and L003 blank.	C	R	1/11	2	145	O	1	20	2	L0	L002	220	C	R	1/11
172-03	300	Service Units Qualifier ELEMENT CONDITION: Required if L002 is used. SOURCE: Reference Section 6.0 of this IC for code values using applicable Accessorial Services for Rail Shipments, Accessorial Services for Tailored Transportation Contract Traffic Shipments, Accessorial/Protective Service For Air Shipments, Accessorial/Protective Service For Motor Shipments,Bulk Fuel Shipments, Miscellaneous Services, and Pipeline Shipments tables. Common code values associated with multiple definitions prevents documentation of the entire sub-set.	C	ID	2/2	2	145	O	1	20	2	L0	L003	221	C	ID	2/2
173	300	**L1 SEGMENT - Service Rate** SEGMENT CONDITION: Required if and only if L0 SEGMENT - Service Units is used.	C			2	150	O	20	20	2	L0					
							If either L102 or L103 is present, then the other is required. At least one of L104, L105, or L106 is required. If either L114 or L115 is present, then the other is required. If either L117 or L118 is present, then the other is required.										
173-02	300	Service Rate	C	R	1/7	2	150	O	20	20	2	L0	L102	60	C	R	1/9

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		
173-03	300	Service Rate Qualifier ELEMENT CONDITION: Required if L102 is used. SOURCE: Reference Section 6.0 of this IC for code values using applicable Accessorial Services for Rail Shipments, Accessorial Services for Tailored Transportation Contract Traffic Shipments, Accessorial/Protective Service For Air Shipments, Accessorial/Protective Service For Motor Shipments, Bulk Fuel Shipments, Miscellaneous Services, and Pipeline Shipments tables. Common code values associated with multiple definitions prevents documentation of the entire sub-set. Sample Values: FC, NM, P1, PM, XP	C	ID	2/2	2	150	O	20	20	2	L0	L103	122	C	ID	2/2
173-04	300	Service Charge The charge for an accessorial or protective service. If the shipper does not know the charge, enter '00' in this data element. A two-position decimal is implied in this data.	M	N2	1/8	2	150	O	20	20	2	L0	L104	58	C	N2	1/12
173-08	300	Service Identifier Code Code values apply both to services requested and received. See Section 6.0 for valid code list. SOURCE: Reference Section 6.0 of this IC, beginning on page 6.14, for code values using applicable Accessorial Services for Rail Shipments, Accessorial Services for Tailored Transportation Contract Traffic Shipments, Accessorial/Protective Service For Air Shipments, Accessorial/Protective Service For Motor Shipments,Bulk Fuel Shipments, Miscellaneous Services, and Pipeline Shipments tables. Common code values associated with multiple definitions prevents documentation of the entire sub-set. Sample Values: 045, 495, 500, AAM, AAS	M	ID	3/3	2	150	O	20	20	2	L0	L108	150	O	ID	3/3
173-12	300	Service Description Some accessorial services such as empty movements and stops (including stop-offs, inside pickup and delivery, and objective service supply deliveries) require a Standard Point Location Code (SPLC) to describe where the service was performed. This information is required to determine the charge for the service. SOURCE: Reference Section 6.0 of this IC for code values using applicable Accessorial Services for Rail Shipments, Accessorial Services for Tailored Transportation Contract Traffic Shipments, Accessorial/Protective Service For Air Shipments, Accessorial/Protective Service For Motor Shipments,Bulk Fuel Shipments, Miscellaneous Services, and Pipeline Shipments tables. Common code values associated with multiple definitions prevents documentation of the entire sub-set. Sample Values: LTL, TL	C	AN	2/25	2	150	O	20	20	2	L0	L112	276	O	AN	2/25
174	300	**HL SEGMENT - Level of Service Loop** LOOP CONDITION: Use for air freight shipments.	C			2	010	M	1	>1	1	HL					
							The HL segment is used to identify levels of detail information using a hierarchical structure, such as relating line-item data to shipment data, and packaging data to line-item data. The HL segment defines a top-down/left-right ordered structure.										

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		
174-01	300	Hierarchical ID Number	M	AN	1/12	2	010	M	1	>1	1	HL	HL01	628	M	AN	1/12
							HL01 shall contain a unique alphanumeric number for each occurrence of the HL segment in the transaction set. For example, HL01 could be used to indicate the number of occurrences of the HL segment, in which case the value of HL01 would be "1" for the initial HL segment and would be incremented by one in each subsequent HL segment within the transaction.										
174-03	300	Hierarchical Level Code SS - Services	M	ID	2/2	2	010	M	1	>1	1	HL	HL03	735	M	ID	1/2
							HL03 indicates the context of the series of segments following the current HL segment up to the next occurrence of an HL segment in the transaction. For example, HL03 is used to indicate that subsequent segments in the HL loop form a logical grouping of data referring to shipment, order, or item-level information.										
175	300	**SL1 SEGMENT - Level of Service** SEGMENT CONDITION: Required for air freight shipments.	C			2	095	O	1	>1	1	HL					
							At least one of SL103 or SL104 is required. Scale and commodity codes are proprietary codes maintained by the carrier.										
175-01	300	Service Level Code D1 - Delivery Scheduled Next Day by Cartage Agent *Use 'D1' to denote Overnight.* D2 - Delivery scheduled second day by cartage agent *Use 'D2' to denote Second Day.* D3 - Delivery scheduled third day by cartage agent *Use 'D3' to denote Deferred.* SG - Standard Ground *Use 'SG' to denote Priority.*	M	ID	2/2	2	095	O	1	>1	1	HL	SL101	284	M	ID	2/2
							SL101 is the service requested by the customer.										
175-03	300	Required Element Enter value zero (0) to satisfy X12 syntax.	M	AN	1/1	2	095	O	1	>1	1	HL	SL103	22	C	AN	1/30
176	300	**L0 SEGMENT - Type of Service** LOOP CONDITION: Required for air freight shipments.	C			2	145	O	1	20	2	L0					
							If either L002 or L003 is present, then the other is required. If either L004 or L005 is present, then the other is required. If either L006 or L007 is present, then the other is required. If either L008 or L009 is present, then the other is required. If L011 is present, then L004 is required. If either L013 or L015 is present, then the other is required.										
176-12	300	Type of Service Code AA - [Migration Code] Airport to Airport DD - Door to Door	M	ID	2/2	2	145	O	1	20	2	L0	L012	56	O	ID	2/2
177	300	**L1 SEGMENT - Air Code** SEGMENT CONDITION: Required for air freight shipments.	C			2	150	O	20	20	2	L0					
							If either L102 or L103 is present, then the other is required. At least one of L104, L105, or L106 is required. If either L114 or L115 is present, then the other is required. If either L117 or L118 is present, then the other is required.										

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		
177-04	300	Air Charge Use value '000'.	M	N2	3/3	2	150	O	20	20	2	L0	L104	58	C	N2	1/12
177-08	300	Air Code AIR - Air Freight	M	ID	3/3	2	150	O	20	20	2	L0	L108	150	O	ID	3/3
178	301	**HL SEGMENT - Fuel Surcharge Loop** LOOP CONDITION: Required only when Mode is Air (BX02 code values 'AF'. 'AH', 'FA') or Motor, as long as fuel surcharge policy is in effect.	C			2	010	M	1	>1	1	HL					
							The HL segment is used to identify levels of detail information using a hierarchical structure, such as relating line-item data to shipment data, and packaging data to line-item data. The HL segment defines a top-down/left-right ordered structure.										
178-01	301	Detail - Fuel Surcharge Loop Use the value '1' for the first HL loop and increment by 1 for each successive HL loop regardless of usage of the HL loop. This segment begins the loop used to describe a fuel surcharge.	M	N0	1/12	2	010	M	1	>1	1	HL	HL01	628	M	AN	1/12
							HL01 shall contain a unique alphanumeric number for each occurrence of the HL segment in the transaction set. For example, HL01 could be used to indicate the number of occurrences of the HL segment, in which case the value of HL01 would be "1" for the initial HL segment and would be incremented by one in each subsequent HL segment within the transaction.										
178-03	301	Hierarchical Level Code This code identifies the Fuel Surcharge Loop. 2 - Billing Arrangement	M	ID	1/1	2	010	M	1	>1	1	HL	HL03	735	M	ID	1/2
							HL03 indicates the context of the series of segments following the current HL segment up to the next occurrence of an HL segment in the transaction. For example, HL03 is used to indicate that subsequent segments in the HL loop form a logical grouping of data referring to shipment, order, or item-level information.										
179	301	**L0 SEGMENT - Fuel Surcharge Loop Identifier** LOOP CONDITION: Required if and only if HL SEGMENT - Fuel Surcharge Loop is used.	C			2	145	O	1	20	2	L0					
							If either L002 or L003 is present, then the other is required. If either L004 or L005 is present, then the other is required. If either L006 or L007 is present, then the other is required. If either L008 or L009 is present, then the other is required. If L011 is present, then L004 is required. If either L013 or L015 is present, then the other is required.										
179-01	301	Fuel Surcharge Loop Identifier Use value '301' to indicate fuel surcharge loop.	M	N0	3/3	2	145	O	1	20	2	L0	L001	213	O	N0	1/3
180	301	**L1 SEGMENT - Fuel Surcharge** SEGMENT CONDITION: Required if and only if L0 SEGMENT - Fuel Surcharge Loop Identifier is used.	C			2	150	O	20	20	2	L0					
							If either L102 or L103 is present, then the other is required. At least one of L104, L105, or L106 is required. If either L114 or L115 is present, then the other is required. If either L117 or L118 is present, then the other is required.										
180-02	301	Fuel Surcharge Rate	C	R	1/7	2	150	O	20	20	2	L0	L102	60	C	R	1/9
180-03	301	Fuel Surcharge Rate Qualifier PM - Per Mile PW - Percentage of Charges VT - Per Mile per Vehicle	C	ID	2/2	2	150	O	20	20	2	L0	L103	122	C	ID	2/2

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		
180-04	301	Fuel Surcharge The charge allowed for fuel surcharge.	M	N2	1/8	2	150	O	20	20	2	L0	L104	58	C	N2	1/12
180-08	301	Fuel Surcharge Service Identifier 405 - Fuel Surcharge *Use '405' to denote Fuel Surcharge for Air and Fuel Adjustment for non-Air.*	M	ID	3/3	2	150	O	20	20	2	L0	L108	150	O	ID	3/3
181	400	**HL SEGMENT - Commodity Classification Summary Loop** LOOP CONDITION: Required except for ocean and SPOT BID shipments.	C			2	010	M	1	>1	1	HL					
							The HL segment is used to identify levels of detail information using a hierarchical structure, such as relating line-item data to shipment data, and packaging data to line-item data. The HL segment defines a top-down/left-right ordered structure.										
181-01	400	Detail - Commodity Classification Summary Loop Use the value '1' for the first HL loop and increment by 1 for each successive HL loop regardless of usage of the HL loop. This segment begins a loop used to describe each different type of commodity being moved under the bill. Description of each individual commodity type requires an HL Segment.	M	N0	1/12	2	010	M	1	>1	1	HL	HL01	628	M	AN	1/12
							HL01 shall contain a unique alphanumeric number for each occurrence of the HL segment in the transaction set. For example, HL01 could be used to indicate the number of occurrences of the HL segment, in which case the value of HL01 would be "1" for the initial HL segment and would be incremented by one in each subsequent HL segment within the transaction.										
181-03	400	Hierarchical Level Code This code identifies the Commodity Classification Summary Loop. D - Product Description	M	ID	1/1	2	010	M	1	>1	1	HL	HL03	735	M	ID	1/2
							HL03 indicates the context of the series of segments following the current HL segment up to the next occurrence of an HL segment in the transaction. For example, HL03 is used to indicate that subsequent segments in the HL loop form a logical grouping of data referring to shipment, order, or item-level information.										
182	400	**L7 SEGMENT - Tariff/Tender Rate Authority** SEGMENT CONDITION: Used for SPOT BID shipments as well as ocean shipments.	C			2	090	O	10	>1	1	HL					
182-02	400	Tariff/Tender Rate Authority (SCAC) The Standard Carrier Alpha Code that prefixes the tender number. SOURCE: Directory of Standard Multi-Model Carriers and Tariff Agents Codes (SCAC - STAC), NMF 101 Series available from National Motor Freight Traffic Association, Inc.	M	ID	2/4	2	090	O	10	>1	1	HL	L702	168	O	ID	1/4
182-03	400	Tariff/Tender Number	M	N0	6/6	2	090	O	10	>1	1	HL	L703	171	O	AN	1/7
182-08	400	Tariff/Tender Supplement Identifier Enter two-digit number, using leading zero as required.	C	N0	2/2	2	090	O	10	>1	1	HL	L708	173	O	AN	1/4
182-10	400	Tariff/Tender Effective Date Include for Tailored Transportation Contract (TTC) Traffic shipments.	C	DT	8/8	2	090	O	10	>1	1	HL	L710	373	O	DT	8/8
							L710 is the effective date.										
183	400	**L5 SEGMENT - Commodity Description** SEGMENT CONDITION: Required if and only if HL SEGMENT - Commodity Classification Summary Loop is used.	C			2	130	O	10	>1	1	HL					
							If either L503 or L504 is present, then the other is required. If L507 is present, then L506 is required. If either L508 or L509 is present, then the other is required.										

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		
183-02	400	Commodity Description [T_8 11/14]	C	AN	1/50	2	130	O	10	>1	1	HL	L502	79	O	AN	1/50
							L502 may be used to send quantity information as part of the product description.										
183-03	400	Commodity Code If the shipment goes FAK, enter the DoD unique FAK code instead of the NMFC/UFC. [T_0 18/18]	M	AN	6/8	2	130	O	10	>1	1	HL	L503	22	C	AN	1/30
183-04	400	Commodity Code Qualifier D - Department of Defense Unique Codes N - National Motor Freight Classification (NMFC) T - Standard Transportation Commodity Code (STCC) U - Uniform Freight Classification (UFC)	M	ID	1/1	2	130	O	10	>1	1	HL	L504	23	C	ID	1/1
184	400	**L0 SEGMENT - Commodity Billed/Rated Quantity** LOOP CONDITION: Required if and only if HL SEGMENT - Commodity Classification Summary Loop is used.	C			2	145	O	1	20	2	L0					
							If either L002 or L003 is present, then the other is required. If either L004 or L005 is present, then the other is required. If either L006 or L007 is present, then the other is required. If either L008 or L009 is present, then the other is required. If L011 is present, then L004 is required. If either L013 or L015 is present, then the other is required.										
184-02	400	Commodity Billed/Rated Quantity All quantities that appear in HL Line Item Description Loops must be accumulated by commodity and carried here within the HL Detail - Commodity Classification Summary Loop. A commodity is a single type of product or material. Transportation of a commodity is usually billed/rated by units of freight weight. A line item on a transportation bill describes a single commodity. The quantity of a line item commodity is described in the HL Detail - Line Item Description loop. There may be many line items (i.e., HL Detail - Line Item Description loops) of the same commodity. As with line item quantities, to describe accumulated quantities, two rules must be followed when constructing an L0 segment: 1) If the accumulated billed/rated quantity is expressed as freight weight, it appears here. Freight weight is the weight that line haul rate is based upon and may include skid, pallet, and dunnage weights, carried in separate MEA segments. Entry should not contain a decimal; decimal is assumed at right-most point of the field. The L004, L005, and L011 elements are not used. 2) If the accumulated billed/rated quantity is other than weight, such as barrels in the case of a pipeline shipment, it also appears here. In addition, the L004, L005, and L011 elements are used to carry the accumulated weight information, if required.	M	R	1/8	2	145	O	1	20	2	L0	L002	220	C	R	1/11
184-03	400	Commodity Billed/Rated Quantity Qualifier BA - Barrels GL - Gallon LB - Pound	M	ID	2/2	2	145	O	1	20	2	L0	L003	221	C	ID	2/2

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		
184-04	400	Weight If the commodity freight weight has not been expressed as commodity billed/rated quantity in L002, then it can be expressed here. If the commodity is bulk fuel or another commodity that requires weight in addition to units shipped, carry the commodity's freight weight here and carry the units shipped in L002 and L003. Otherwise, carry all commodity weights in the L002 and L003. Freight weight is the weight that line haul rate is based upon and may include skid, pallet, and dunnage weights, carried in separate MEA segments. Entry may contain a decimal; if not, decimal is assumed at right-most point of the field.	C	R	1/8	2	145	O	1	20	2	L0	L004	81	C	R	1/10
184-05	400	Weight Qualifier ELEMENT CONDITION: Required if L004 is used. FR - Freight Weight	C	ID	2/2	2	145	O	1	20	2	L0	L005	187	C	ID	1/2
184-11	400	Weight Unit Qualifier 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	145	O	1	20	2	L0	L011	188	O	ID	1/1
185	400	**L1 SEGMENT - Freight Rate** SEGMENT CONDITION: Required if and only if L0 SEGMENT - Commodity Billed/Rated Quantity is used.	C			2	150	O	20	20	2	L0					
							If either L102 or L103 is present, then the other is required. At least one of L104, L105, or L106 is required. If either L114 or L115 is present, then the other is required. If either L117 or L118 is present, then the other is required.										
185-02	400	Freight Rate Enter freight rate applied to the shipment of the commodity. Entry may contain a decimal; if not, decimal is assumed at right-most point of the field.	C	R	1/9	2	150	O	20	20	2	L0	L102	60	C	R	1/9
185-03	400	Freight Rate Qualifier ELEMENT CONDITION: Required if L102 is used. SOURCE: Reference Section 6.0 of this IC for code values using applicable Freight Rate Qualifier table. Common code values associated with multiple definitions prevents documentation of the entire sub-set. See Section 6 for list of data values.	C	ID	2/2	2	150	O	20	20	2	L0	L103	122	C	ID	2/2

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		
185-04	400	Freight Charge The total line haul charge for the specific commodity described in L503.	M	N2	1/10	2	150	O	20	20	2	L0	L104	58	C	N2	1/12
185-09	400	Type of Rate Qualifier Qualifies the authority (tender/tariff) number identified in the HL Detail - Line Item Description loop, L7 segment. A - Alternate Rating C - Specific Commodity Rate I - Class Not Identifiable L - Class Rate QUO - Quoted Rate Y - Exception Rating	M	ID	1/3	2	150	O	20	20	2	L0	L109	121	O	ID	1/3
185-14	400	Declared Value ELEMENT CONDITION: Required for proper application of rates for certain commodities.	C	N2	2/10	2	150	O	20	20	2	L0	L114	74	C	N2	2/12
185-15	400	Declared Value Rate Qualifier ELEMENT CONDITION: Required if L114 is used. LA - Per Pound Per Article LB - Per Pound LV - Per Pound Per Vehicle PV - Per Vehicle	C	ID	2/2	2	150	O	20	20	2	L0	L115	122	C	ID	2/2
186	400	**LH1 SEGMENT - HAZMAT Quantities** LOOP CONDITION: Use this segment if the commodity is hazardous material.	C			2	170	O	1	100	2	LH1					
186-01	400	HAZMAT - Unit Of Measure Code Use 'ZZ' in this data element and zero (0) in LH102 to indicate commodity requires a HAZMAT indicator. ZZ - Mutually Defined	M	ID	2/2	2	170	O	1	100	2	LH1	LH101	355	M	ID	2/2
							LH101 and LH102 are used to convey the number and type of packages for bulk and nonbulk movements.										
186-02	400	HAZMAT - Lading Quantity Use the value zero (0). [T_9 D-15 54/79]	M	N0	1/1	2	170	O	1	100	2	LH1	LH102	80	M	N0	1/7

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		
187	500	**HL SEGMENT - ITO Quality Management Info Loop Qualifier** LOOP CONDITION: Use if the shipper needs to report quality control information, DG 500 must appear.	C			2	010	M	1	>1	1	HL					
							The HL segment is used to identify levels of detail information using a hierarchical structure, such as relating line-item data to shipment data, and packaging data to line-item data. The HL segment defines a top-down/left-right ordered structure.										
187-01	500	Detail - ITO Quality Management Info Loop Qualifier Use the value '1' for the first HL loop and increment by 1 for each successive HL loop regardless of usage of the HL loop. This segment begins the loop used to carry ITO Quality Management Information.	M	N0	1/12	2	010	M	1	>1	1	HL	HL01	628	M	AN	1/12
							HL01 shall contain a unique alphanumeric number for each occurrence of the HL segment in the transaction set. For example, HL01 could be used to indicate the number of occurrences of the HL segment, in which case the value of HL01 would be "1" for the initial HL segment and would be incremented by one in each subsequent HL segment within the transaction.										
187-03	500	Hierarchical Level Code This code identifies the ITO Quality Management Information Loop. AD - Administrative Information	M	ID	2/2	2	010	M	1	>1	1	HL	HL03	735	M	ID	1/2
							HL03 indicates the context of the series of segments following the current HL segment up to the next occurrence of an HL segment in the transaction. For example, HL03 is used to indicate that subsequent segments in the HL loop form a logical grouping of data referring to shipment, order, or item-level information.										
188	500	**N9 SEGMENT - Reason (Not Lowest Cost)** SEGMENT CONDITION: Required only if HL SEGMENT - ITO Quality Management Info Loop Qualifier is used.	C			2	100	O	10	>1	1	HL					
							At least one of N902 or N903 is required. If N906 is present, then N905 is required.										
188-01	500	Reason (Not Lowest Cost) Qualifier This qualifier must appear if not lowest cost is used. 25 - Reason Not Lowest Cost Code	M	ID	2/2	2	100	O	10	>1	1	HL	N901	128	M	ID	2/3
188-02	500	Reason (Not Lowest Cost) Code that identifies the 'Reason Not Lowest Cost' service provided as defined by the "Freight Lading Bill Reason Code" table found in USTranscom Reference Data Management (TRDM), mirrored at http://www.transcom.mil/dteb/files/refdata/V_D_FRGHT_LDNG_BL4_CD.htm. [T_9 D-13 78/79]	M	AN	1/30	2	100	O	10	>1	1	HL	N902	127	C	AN	1/30
189	500	**L0 SEGMENT - Quality Control** LOOP CONDITION: This segment is required only if HL SEGMENT - ITO Quality Management Info Loop Qualifier is used.	C			2	145	O	1	20	2	L0					
							If either L002 or L003 is present, then the other is required. If either L004 or L005 is present, then the other is required. If either L006 or L007 is present, then the other is required. If either L008 or L009 is present, then the other is required. If L011 is present, then L004 is required. If either L013 or L015 is present, then the other is required.										
189-01	500	Item Qualifier Use value '500' to satisfy X12 syntax for the Not Lowest Cost Charge Difference Loop.	M	N0	3/3	2	145	O	1	20	2	L0	L001	213	O	N0	1/3
190	500	**L1 SEGMENT - Not Lowest Cost Charge Difference** SEGMENT CONDITION: Required if and only if L0 SEGMENT - Quality Control is used.	C			2	150	O	20	20	2	L0					
							If either L102 or L103 is present, then the other is required. At least one of L104, L105, or L106 is required. If either L114 or L115 is present, then the other is required. If either L117 or L118 is present, then the other is required.										

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		
190-04	500	Not Lowest Cost Charge Difference Use value zero (0) if no charge difference is available.	M	N2	1/8	2	150	O	20	20	2	L0	L104	58	C	N2	1/12
191	600	**HL SEGMENT - Transportation Working Capital Fund (TWCF) Recovery Fee Loop** LOOP CONDITION: Required for all Defense Freight Transportation Services (DFTS) shipments.	C			2	010	M	1	>1	1	HL					
							The HL segment is used to identify levels of detail information using a hierarchical structure, such as relating line-item data to shipment data, and packaging data to line-item data. The HL segment defines a top-down/left-right ordered structure.										
191-01	600	Detail - TWCF Recovery Fee Loop Use the value '1' for the first HL loop and increment by 1 for each successive HL loop regardless of usage of the HL loop. This segment begins the loop used to describe the TWCF recovery fee associated to DFTS shipments.	M	N0	1/12	2	010	M	1	>1	1	HL	HL01	628	M	AN	1/12
							HL01 shall contain a unique alphanumeric number for each occurrence of the HL segment in the transaction set. For example, HL01 could be used to indicate the number of occurrences of the HL segment, in which case the value of HL01 would be "1" for the initial HL segment and would be incremented by one in each subsequent HL segment within the transaction.										
191-03	600	Hierarchical Level Code This code identifies the TWCF Recovery Fee Loop. CT - Cost Type *Use 'CT' to denote Transportation Working Capital Fund (TWCF) Recovery Fee.*	M	ID	2/2	2	010	M	1	>1	1	HL	HL03	735	M	ID	1/2
							HL03 indicates the context of the series of segments following the current HL segment up to the next occurrence of an HL segment in the transaction. For example, HL03 is used to indicate that subsequent segments in the HL loop form a logical grouping of data referring to shipment, order, or item-level information.										
192	600	**L0 SEGMENT - Transportation Working Capital Fund (TWCF) Recovery Fee Loop Identifier** LOOP CONDITION: Required if and only if HL SEGMENT - Transportation Working Capital Fund (TWCF) Recovery Fee Loop is used.	C			2	145	O	1	20	2	L0					
							If either L002 or L003 is present, then the other is required. If either L004 or L005 is present, then the other is required. If either L006 or L007 is present, then the other is required. If either L008 or L009 is present, then the other is required. If L011 is present, then L004 is required. If either L013 or L015 is present, then the other is required.										
192-01	600	TWCF Recovery Fee Loop Identifier Use value '600' to indicate TWCF Recovery Fee loop.	M	N0	3/3	2	145	O	1	20	2	L0	L001	213	O	N0	1/3
193	600	**L1 SEGMENT - Transportation Working Capital Fund (TWCF) Recovery Fee** SEGMENT CONDITION: Required if and only if L0 SEGMENT - Transportation Working Capital Fund (TWCF) Recovery Fee Loop Identifier is used.	C			2	150	O	20	20	2	L0					
							If either L102 or L103 is present, then the other is required. At least one of L104, L105, or L106 is required. If either L114 or L115 is present, then the other is required. If either L117 or L118 is present, then the other is required.										
193-02	600	TWCF Recovery Fee Rate ELEMENT CONDITION: Used to pass the TWCF Recovery Fee rate applied per the DFTS contract.	C	R	1/7	2	150	O	20	20	2	L0	L102	60	C	R	1/9
193-03	600	TWCF Recovery Fee Qualifier PS - Per Shipment	C	ID	2/2	2	150	O	20	20	2	L0	L103	122	C	ID	2/2
193-04	600	TWCF Recovery Fee The charge allowed for TWCF recovery fee.	M	N2	1/8	2	150	O	20	20	2	L0	L104	58	C	N2	1/12

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		
193-08	600	TWCF Recovery Fee Service Identifier 615 - Recovery Fee *Use '615' to denote Transportation Working Capital Fund (TWCF) Recovery Fee.*	M	ID	3/3	2	150	O	20	20	2	L0	L108	150	O	ID	3/3
194	990	**L3 SEGMENT - Bill of Lading Totals**	M			3	010	O	1								
						If either L301 or L302 is present, then the other is required. If either L303 or L304 is present, then the other is required. If either L309 or L310 is present, then the other is required. If L312 is present, then L301 is required. If either L314 or L315 is present, then the other is required.											
194-05	990	Total Charge for Shipment Estimated or calculated charge for entire shipment.	M	N2	1/12	3	010	O	1				L305	58	O	N2	1/12
194-09	990	Total Cube of Shipment [T_0 77/80]	C	R	1/8	3	010	O	1				L309	183	C	R	1/8
194-10	990	Total Cube of Shipment Qualifier ELEMENT CONDITION: This qualifier must appear if total cube of shipment (L309) is used. E - Cubic Feet F - 100 Board Feet G - Gallons H - Hundreds of Measurement Tons S - Measurement Ton V - Liter X - Cubic Meters	C	ID	1/1	3	010	O	1				L310	184	C	ID	1/1
194-11	990	Number of Carloads/Truckloads Used The total number of pieces of equipment used for the shipment. This quantity may be used to rate the cost of a shipment.	C	N0	1/3	3	010	O	1				L311	80	O	N0	1/7
195	10	**SE SEGMENT - Bill of Lading Trailer**	M			3	020	M	1								
						SE is the last segment of each transaction set.											
195-01	10	Number of Included Segments Total segments in this transaction set including the ST and SE segments.	M	N0	1/6	3	020	M	1				SE01	96	M	N0	1/10
195-02	10	Transaction Set Control Number This data element ends the transaction set and should match the number that appears in the ST02 that begins the transaction set.	M	AN	4/9	3	020	M	1				SE02	329	M	AN	4/9

Section 5.0

IC ELEMENTS IN EDI FORMAT

This appendix contains examples of the bill of lading in the ASC X12 Transaction Set 858 format. The examples include:

Example 1 - Rail Shipment of Shipper Owned Containers on a Railcar

Example 2.1 - Accessorial Escort Service from ITO to MSDDC

Example 2.2 - Accessorial Service from ITO to MSDDC when billable units are not required

Example 3 – Bill of Lading Correction Indicator String

How to Read the Examples

Each example approximates a complete X12 transaction. Each example begins with a transaction header segment (ST) and ends with a transaction trailer segment (SE) and represents a complete transaction unless otherwise noted. Data element separators are delimited with a tilde (“~”). Sub-element separators are delimited with a colon (“:”). The new line (“n/l”) character delimits end of segment. Notes in **bold text** explain key segments in the transaction.

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EXAMPLE 1 - Rail Shipment of Shipper Owned Containers on a Railcar

TABLE A - HEADER AREA

ST~858~431240001 n/l	**Transaction set header**
BX~00~R~CC~C1421643~CSXT~~G~~F n/l	**Bill of lading number (BX07 identifies a TTC Traffic bill)**
BNX~S~~V n/l	
N9~FI~SI n/l	**Transaction content**
N9~RG~1SXX09995N n/l	**Route order number**
N9~CN~{carrier freight bill no.}~~{date} n/l	
N9~CT~{contract number}~~{date} n/l	
Y7~{transportation priority code} n/l	
G62~76~19880523 n/l	**Date bill was prepared**
G62~68~19880525 n/l	**Pickup date**
PER~IC~~TE~3013207272 n/l	**Shipment contact telephone no.**
PER~EF~~TE~7037560000 n/l	**Emergency contact telephone no.**
F9~~Jacksonville~NC~~~~~{splc} n/l	**Originating rail station**
D9~~Charleston~SC~~~~~{splc} n/l	**Destination rail station**
R2~CSXT~1~Jacksonville n/l	
H3~~ECS n/l	**Accessorial service request**
N7~TTWX~993476~1490~N~~~~~~~~~~~08904 ~~~~~~~KF2x n/l	**1st railcar**
N5~08904~1490~~KF2x n/l	**Equipment ordered**
N1~CA~CSXT n/l	**Carrier**
N1~ST~Marine Corps Maint. Cmd~10~M92502 n/l	**Destination**
N3~5880 Gateco Blvd, Blount Isle n/l	
N4~Jacksonville~FL~32218~~SL~491200000 n/l	
N1~SF~Traffic Management Office~10~DoDAAC n/l	**Origin**
N3~Naval Weapons Station n/l	
N4~Charleston~SC~294087000~~SL~447178000 n/l	
N1~CN~Marine Corps Maint. Cmd n/l	**Consignee**
N3~5880 Gateco Blvd, Blount Isle n/l	
N4~Jacksonville~FL~32218~BL~ICOI n/l	
N1~SH~Traffic Management Office~10~N00612 n/l	**Shipper**
N3~Naval Weapons Station n/l	
N4~Charleston~SC~294087000 n/l	

N1~PO~Commanding General n/l **Bill charges to**
N3~Marine Corps Logistics Base n/l
N4~Albany~GA~317045000 n/l
N1~IU~Traffic Management Office n/l **Issuing office**
N3~Naval Weapons Station n/l
N4~Charleston~SC~294087000 n/l
PER~IO~D.L. Allen n/l
FA1~DF n/l **Accounting Information**
FA2~{Breakdown Structure Detail Code}~{Financial Information Code}
L10~{Appropriation Weight}~N~L n/l

TABLE B - DETAIL AREA

HL~1~~I n/l	**100 Detail - Line Item Description Loop, LINE ITEM 1**
N7~TTWX~993476 n/l	**Cross reference to primary equipment**
NA~~~DODV~0331011 n/l	**Shipper-owned equipment**
M7~0286446 n/l	
N9~TG~00001410011352092 n/l	**TCN**
N9~M6~2 n/l	
L5~~~{UFC no.}~D n/l	**Line description**
LH6~M. B. MEIERDIERKS~2~	
THIS IS TO CERTIFY THAT THE HEREIN NAMED n/l	**Additional Hazmat Info**
LH6~M. B. MEIERDIERKS~2~	
MATERIALS ARE PROPERLY CLASSIFIED, DESCRIBED, PACKAGED n/l	
LH6~M. B. MEIERDIERKS~2~	
MARKED, AND LABELED AND ARE IN PROPER CONDITION n/l	
LH6~M. B. MEIERDIERKS~2~	
FOR TRANSPORTATION ACCORDING TO THE APPLICABLE n/l	
LH6~M. B. MEIERDIERKS~2~	
REGULATIONS OF THE DEPARTMENT OF TRANSPORTATION n/l	
L0~~1800~LB~~~104.7~E~18~BOX n/l	**Weights and quantity**
MEA~NX~~206.46~PN n/l	**Net explosive weight**
MEA~NX~~93.85~KG n/l	
LH1~BX~18~UN0181~~~LB~1800~~R~II n/l	**Hazmat information**
LH2~1.1E~P n/l	
LH3~Rockets with Bursting Charge n/l	
FA1~DF n/l	**Accounting Information**
FA2~{Breakdown Structure Detail Code}~{Financial Information Code}	

HL~2~~I n/l	**100 Detail - Line Item Description Loop, LINE ITEM 2**
N7~TTWX~993476 n/l	**Cross reference to primary equipment**
NA~~~DODV~0331011 n/l	**Shipper-owned equipment**
M7~0286446 n/l	
N9~TG~00001425010249982 n/l	
N9~M6~2 n/l	
N9~1I~{DoDIC} n/l	**DoDIC**
L5~~~{UFC no.}~D n/l	
L0~~2514.7~LB~~~223.6~E~24~BOX n/l	

MEA~NX~~20.64~PN n/l
MEA~NX~~9.38~KG n/l
LH1~ BX~18~UN0181~~~LB~1800~~R~II n/l
LH2~1.1E~P n/l
LH3~Rockets with Bursting Charge~D n/l
FA1~DF n/l **Accounting Information**
FA2~{Breakdown Structure Detail Code}~{Financial Information Code}

HL~3~~I n/l **100 Detail - Line Item Description Loop, LINE ITEM 3**
N7~TTWX~993476 n/l **Cross reference to primary equipment**
NA~~~DODV~0331011 n/l **Shipper-owned equipment**
M7~0286446 n/l
N9~TG~00001427012271722 n/l
N9~M6~2 n/l
N9~1I~{DoDIC} n/l
L5~~~{UFC no.}~D n/l
L0~~2016~LB~~~197.0~E~28~BOX n/l
MEA~NX~~168.00~PN n/l
MEA~NX~~76.36~KG n/l
LH1~BX~18~UN0181~~~LB~1800~~R~II n/l
LH2~1.1E~P n/l
LH3~Rockets with Bursting Charge~D n/l
FA1~DF n/l **Accounting Information**
FA2~{Breakdown Structure Detail Code}~{Financial Information Code}

HL~4~~I n/l **100 Detail - Line Item Description Loop, LINE ITEM 4**
N7~TTWX~993476 n/l **Cross reference to primary equipment**
NA~~~DODV~0350602 n/l **Shipper-owned equipment**
M7~0286491 n/l
N9~TG~00001325010150359 n/l
N9~M6~4 n/l
N9~1I~{DoDIC} n/l **DoDIC**
L5~~~{UFC no.}~D n/l
L0~~19800~LB~~~720.4~E~24~BOX n/l
MEA~NX~~2400.00~PN n/l
MEA~NX~~1090.9~KG n/l

LH1~BX~18~UN0181~~~LB~1800~~R~II n/l	
LH2~1.1D~P n/l	
LH3~Rockets with Bursting Charge~D n/l	
FA1~DF n/l	**Accounting Information**
FA2~{Breakdown Structure Detail Code}~{Financial Information Code}	
HL~5~~I n/l	**100 Detail - Line Item Description Loop, LINE ITEM 5**
N7~TTWX~993476 n/l	**Cross reference to primary equipment**
NA~~~DODV~0331011 n/l	**Shipper-owned equipment**
M7~0286491 n/l	
N9~TG~00001410000238115 n/l	
N9~1I~ML05 n/l	**DoDIC**
L5~~~{UFC no.}~D n/l	
L0~~5200~LB~~~0.0~E~1~CNT n/l	
MEA~SK~B~200.5~PN n/l	**Weight of the skid used for this type pack**
MEA~DN~B~20.5~PN n/l	**Weight of the dunnage for this type pack**
FA1~DF n/l	**Accounting Information**
FA2~{Breakdown Structure Detail Code}~{Financial Information Code}	
HL~6~~PH n/l	**200 Detail - Weights Description Loop**
L0~~~~31551.70~N~~~~~~L n/l	**Original shipment net weight**
FA1~DF n/l	**Accounting Information**
FA2~{Breakdown Structure Detail Code}~{Financial Information Code}	
HL~7~~PH n/l	
L0~~~~2795.10~CE~~~~~~L n/l	**Original shipment net explosive weight**
FA1~DF n/l	**Accounting Information**
FA2~{Breakdown Structure Detail Code}~{Financial Information Code}	
HL~8~~PH n/l	**Original shipment skid weight**
L0~~~~200.5~SK n/l	
FA1~DF n/l	**Accounting Information**
FA2~{Breakdown Structure Detail Code}~{Financial Information Code}	
HL~9~~PH n/l	**Original shipment dunnage weight**

L0~~~~20.5~CD n/l	
FA1~DF n/l	**Accounting Information**
FA2~{Breakdown Structure Detail Code}~{Financial Information Code}	
HL~10~~PH n/l	**Original shipment freight weight**
L0~~~~31330.7~FR n/l	
FA1~DF n/l	**Accounting Information**
FA2~{Breakdown Structure Detail Code}~{Financial Information Code}	
HL~11~~SS n/l	**Accessorial Loop**
N9~1P~~19880525 n/l	**Date service performed**
L0~300~50~NC n/l	**Rate qualifier/minimum per shipment**
L1~~50.00~FC~5000~~~~HHB n/l	**Charge and type of service**
FA1~DF n/l	**Accounting Information**
FA2~{Breakdown Structure Detail Code}~{Financial Information Code}	
HL~12~~D n/l	**Commodity summary loop**
L7~~CSXT~600583 n/l	**Effective tender for this commodity**
L5~~~{UFC No.}~U n/l	**Commodity code**
L0~~{Total UFC qty}~LB~{Total UFC qty}~FR~~~~~~L n/l	**Total quantity and weight**
L1~~.0035~HM~~~~~~~~~~~168~LB n/l	**Rate and declared value**
FA1~DF n/l	**Accounting Information**
FA2~{Breakdown Structure Detail Code}~{Financial Information Code}	
HL~13~~AD n/l	**ITO quality management loop**
N9~25~A n/l	**Not lowest cost reason code**
L0~500 n/l	
L1~~~~10000 n/l	**Difference between actual cost and lowest cost ($100.00)**
FA1~DF n/l	**Accounting Information**
FA2~{Breakdown Structure Detail Code}~{Financial Information Code}	

TABLE C - SUMMARY AREA

L3~~~~~7165600~~~~1245.7~E~1 n/l	**Estimated charges**
SE~{total segments in transaction set}~431240001 n/l	**Transaction set trailer**

EXAMPLE 2.1 - Accessorial Service From ITO to MSDDC

TABLE B - DETAIL AREA

This example shows how an Installation Transportation Office (ITO) will send accessorial service information to the CONUS Freight Management System (CFMS). The service presented in this example is Escort Service (DoD code ES). Escort service information must be identified for each day the service is ordered. Each day's information is represented by a separate HL loop. Each day's information will consist of three types of units of service: number of escort miles, number of escort vehicles, and number of escort persons. Each of these variable units is represented by a separate L0 loop. The first L0 loop will also include an L1 segment identifying the service.

HL~3~~ss n/l	**300 Detail - Accessorial and Protective Service Loop. This HL loop describes FIRST DAY service.**
N9~1P~DP~~19920317	**Date service performed.**
L0~300~250~DM n/l	**250 miles.**
L1~~~~00~~~~MES n/l	**DoD service code. Must be in first L0 loop.**
L0~300~2~NV n/l	**2 vehicles.**
L0~300~4~PR n/l	**4 persons.**

HL~4~~SS n/l	**300 Detail - Accessorial and Protective Service Loop. This HL loop describes SECOND DAY service.**
N9~1P~DP~~19920318	**Date service performed. Must be in first L0 loop.**
L0~300~125~DM n/l	**125 miles.**
L1~~~~00~~~~MES n/l	**DoD service code. Must be in first L0 loop.**
L0~300~1~NV n/l	**1 vehicle.**
L0~300~2~PR n/l	**2 persons.**

EXAMPLE 2.2 - Accessorial Service From ITO to MSDDC

TABLE B - DETAIL AREA

This example shows how an ITO will send accessorial service information to CFMS when billable units (L003) are not required. The service presented in this example is Overweight Permit (DoD code OW).

HL~3~~SS n/l	**300 Detail - Accessorial and Protective Service Loop. This HL loop describes FIRST DAY service.**
N9~1P~DP~~19920318	**Date service performed.**
L0~300 n/l	**This segment required by X12 syntax rules.**
L1~~~~00~~~~PER n/l	**DoD service code.**

EXAMPLE 3 - Bill of Lading Correction Indicator String.

NTE SEGMENT

The bill of lading correction indicator string is 8 character positions long. Each character position corresponds to specific data elements or groups of data elements in the bill of lading. For example, the 6th character position indicates if there is a change to bill of lading equipment data. Building the string using 'Y' and 'N' characters, the finance center indicates which data elements are affected by the bill of lading correction. A 'Y' indicates a change and an 'N' indicates no change.

TABLE B-1 BILL OF LADING SHIPMENT INFORMATION CORRECTION INDICATORS

Indicator Position	***Description***
1	Accounting Classification - Indicates a change to one or more accounting classifications.
2	Authorized Services - Indicates a change to one or more authorized services (accessorials), including service quantities, service quantity qualifiers, and service codes.
3	Basic Bill of Lading Data - Indicates a change to any of the basic bill of lading information (such as weights, shipping origin/destination, commodity information, diversion information, linehaul rates, tariff information, pick-up/delivery dates, etc.).
4	Not used.
5	Cost Data - Indicates a change to costed amounts and accessorial rate/rate qualifier information.
6	Equipment Data - Indicates a change in equipment codes, lengths, and capacities.
7	Not used.
8	Routing and Stop-Off Data - Indicates a change of routing standard carrier alpha codes as well as stop-off standard point locations.

EXAMPLE:

The following string indicates a change to the bill of lading accounting classification, its authorized services, and its equipment date.

NTE~CHG~YYNNNYNN n/l

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SECTION 6.0

APPLICATION CODE LISTS

This section contains code lists that are maintained by the Department of Defense for formatting freight bill of lading data to the ASC X12 Transaction Set 858. PLEASE NOTE: Tables display X12 Code Definitions where DoD definitions differ.

[2-02] – Transportation Method Code (Mode Code)

858 Mapping: 1 30 BX02 91

X12 Code		DOD Definition
6		Military Official Mail
A		Air
AE		Air Express
AF		Air Freight
AH		Air Taxi
B		Barge
BU		Bus
D		Parcel Post
DA		Driveaway Service
DW		Driveaway, Truckaway, Towaway
ED *X12 Definition:*		Air Mobility Command (AMC) Transportation Method/Type Code *European or Pacific Distribution System*
FA		Air Freight Forwarder
IP	*	Intermodal (Personal Property)
J *X12 Definition:*		Motor, Truckload *Motor*
L		Contract Carrier
LA *X12 Definition:*		Military Air *Logair*
LD	*	Local Delivery
LT *X12 Definition:*		Motor, Less than Truckload *Less Than Trailer Load (LTL)*
MP		Motor (Package Carrier)
MS	*	Military Sealift Command (MSC), Controlled, Contract, or Arranged Space
PL		Pipeline
R		Rail
RO	*	Ocean (Roll on – Roll off)
SB		Shipper Agent
SC		Shipper Agent (Truck)
SD *X12 Definition:*		Shipper Association Surface *Shipper Association*
SF	*	Surface Freight Forwarder
TA		Towaway Service
U *X12 Definition:*		Package Express *Private Parcel Service*
W		Inland Waterway
WP		Water or Pipeline Intermodal Movement

X	Rail Intermodal Piggyback (TOFC/COFC)
X12 Definition:	Intermodal (Piggyback)

* Migration Code

[32-01] – Accessorial/Protective Service Ordered Identifier

858 Mapping: 1 200 H301 152

[173-08] – Service Identifier Code

858 Mapping: 2 150 L108 150

Accessorial Service for Rail Shipments

X12 Code		DOD Definition	L003 221 [172-03]	L103 122 [173-03]	L112 276 [173-12]
045 *X12 Definition:*		Advancing Charges *Advanced Fee*	EA	P1	
495 *X12 Definition:*	B	Crane at Destination *Miscellaneous - Destination*			
500 *X12 Definition:*	B	Crane at Origin *Miscellaneous – Origin*			
AAM *X12 Definition:*	B	Protective Material Provided for Blocking and Bracing *Additional Material*			
AAS		Attendants Accompanying	PR	NM, XP	
ARG		Rail Armed Guard Service		PM, FC	
BLK *X12 Definition:*	B	Carrier to Block, Brace, and Tie Down *Blocking and Bracing Charge*			
CCS		Carrier Caboose Charge	NC	VT	
CGC *X12 Definition:*		Carrier Guard Cars *Carrier Guard Car Charge*	NC	VT	
CGR *X12 Definition:*		Government Caboose/Guard Cars Returned *Return Carrier Guard Car Charge*	NC	VT	(Return SPLC)
CR *X12 Definition:*	B	Portable Ramps at Origin *Circus Ramp Only (TOFC Van)*			
CSP		Government Caboose Charge	NC	VT	
DEM	B	Demurrage	TD	DV	
DPD *X12 Definition:*	B	Drayage at Destination *Drayage at Port of Debarkation*			
DPE *X12 Definition:*	B	Drayage at Origin *Drayage at Port of Embarkation*			
ECS *X12 Definition:*		Empty Cars Ordered but Not Used *Empty Railcar Ordered But Not Used Charge*	NC	PC	
EXC		Exclusive Use of Vehicle		VT	
GSP		Government Guard Car Charge	NC	VT	
GSS		Greater Security Service		PC	
HHB	M	Handling Freight Not Adjacent to Vehicle	LC	CW, MS, MP	
HOL		Sunday or Holiday Pick-Up or Delivery	TH, DR	MH, MN	
HRS		Heater or Refrigeration	NC	PM, MC	
IDC		Idler Car Charge	NC	PC	
IMS *X12 Definition:*		Intermodal Shipment *Intermodal Shipment Service*	EA	ER	
LDA *X12 Definition:*	B	Carrier to Load *Loading Allowance*			
LDL *X12 Definition:*	B	Carrier to Unload *Unloading Allowance*			

LFD *X12 Definition:*	B	Dedicated Switch Engine Crew at Destination *Linehaul From Port of Debarkation*			
LMD *X12 Definition:*	B	Dedicated Switch Engine at Destination *Liner Terms at Port of Debarkation*			
LME *X12 Definition:*	B	Dedicated Switch Engine at Origin *Liner Terms at Port of Embarkation*			
LTE *X12 Definition:*	B	Dedicated Switch Engine Crew at Origin *Linehaul to Port of Embarkation*			
MOT *X12 Definition:*	B	Protective Materials Provided for Blocking and Bracing *Other*			
OCL *X12 Definition:*	B	Carrier to Load *Carrier Load and Consignee Unload*			
OOL *X12 Definition:*	B	Carrier to Unload *Carrier Load and Carrier Unload*			
PRL *X12 Definition:*		Prelodging *Prelodge Charge*	NV	PV	
PUD		Pick-Up and Delivery	TH, DR	MH, ND	
RAM *X12 Definition:*	B	Portable Ramps at Destination *Ramping*			
RCL		Redelivery		CW, MS, MP	
RDH *X12 Definition:*	B	Technical Assistance for Loading Rail Cars *Railhead Handling*			
RIS	M	Rail Inspection Service	DM, NC	MV, MC, FC	
RLS		Relocation of Vehicle	EA	RL	
RMC		Return of Empty Container Charge			
RMP		Return Movement of Pallet Charge			
SAT *X12 Definition:*		Saturday Pick-Up Charge *Saturday Pick-Up or Delivery Charge*	TH, DR	MH, MN	
SFT *X12 Definition:*		Special Train Service *Special Train Movement*		PM, MP, MS	
SOC		Stop-Off Charge		SP	
SPU		Split Pickup	SP	SP	
SUA *X12 Definition:*	B	Crane at Destination *Spot for Unloading from A End*			
SUB *X12 Definition:*	B	Crane at Origin *Spot for Unloading from B Brake End*			
SUC *X12 Definition:*	B	Portable Ramps at Origin *Special Use*			
SUP *X12 Definition:*	B	Inspector Requested for Loading *Supervisor Requested*			
SVS		Storage of Vehicles	TD	DV	
TER *X12 Definition:*	B	Carrier to Unblock, Unbrace, and Untie *Terminal Handling Charges*			
TMV		Tendering of Multiple Vehicles	TH	PD	
UB *X12 Definition:*	B	Portable Ramps at Destination *Unload at Bumper (Circus Ramp)*			
URC *X12 Definition:*		Loading/Unloading *Unloading/Reloading Charge*	LC	CW, MN	
VFN		Vehicles Furnished But Not Used	NV	VT, PV	(Dispatch SPLC)
WTV		Weight Verification Charge		PC	

[B] Borrowed code from DE 150 per DM 617
[M] Migration code

Accessorial Service for Tailored Transportation Contract Traffic Shipments

Item Number	X12 Code	DOD Definition	L003 221 [172-03]	L103 122 [173-03]	L112 276 [173-12]
	405	Fuel Surcharge		PW	
105	CIS *X12 Definition:*	DOD Constant Surveillance Service *Constant Surveillance*		VT, MW	
140	675 *X12 Definition:*	Signature and Tally Record Service *Security Signature Service*	FR	PS	
205	045 *X12 Definition:*	Advancing Charges *Advance Fee*	EA	P1	
255	CHN *X12 Definition:*	Chains and Binders *Chain and Binders*	EA	ER	
285	DEP *X12 Definition:*	Detention: Vehicles with Power Units *Detention of Power Units*	TH	PR	
290	DET *X12 Definition:*	Detention: Vehicle Without Power Units *Detention of Trailers*		DV	
310	EXC *X12 Definition:*	Exclusive User of Vehicle *Exclusive Use Charge*		VT	
320	EXD	Extra Driver	DR	PM, MW	
350	LIE *X12 Definition:*	Cargo Liability of Carrier *Liability of Carrier Charge*		PH	
355	URC *X12 Definition:*	Loading/Unloading by Motor Carriers *Unloading/Reloading Charge*	LC	CW, MS	
410	HOL	Sunday or Holiday Pick-Up or Delivery	TH, DR	MH, ND	
410	PUD *X12 Definition:*	Pick-Up/Delivery o/t Normal Bus Hours *Pick-Up and Delivery*	TH, DR	MH	
430	PTS *X12 Definition:*	Protective Tarping for Security Purposes *Protective Tarp for Security Purposes*	NV	PV	
440	RCC *X12 Definition:*	Reconsignment/Diversion *Reconsignment Charge*	FR	PS	
445	RCL	Redelivery		CW, MS, MP	
450	RLS	Relocation of Vehicle	EA	RL	
485	SDL	Split Delivery	SP	SP	(SPLC)
490	SPU	Split Pick-Up	SP	SP	(SPLC)
495	SOC	Stop-Off Charge	SP	SP	
500	SRG	Storage	TD	PD, MS	
530	VFN	Vehicle Furnished But Not Used	NV	VT, PV	(Dispatch SPLC)
EXP1	EXP *X12 Definition:*	Expedited Service for Truckload *Expedited Service Charge*		VT	TL
EXP2	EXP *X12 Definition:*	Expedited Service for Less Than Truckload *Expedited Service Charge*		PW	LTL
PUC	PUC *X12 Definition:*	Urgent Pick-Up Service *Pick-Up Charge*		PC	

Accessorial/Protective Service for Air Shipments

X12 Code		DOD Definition	L003 221 [172-03]	L103 122 [173-03]	L112 276 [173-12]
003	B	Account Number Correction Charge			
015 *X12 Definition:*	B	BAHRAIN Certificate of Origin Fee Add on - Origin			
020	B	Address Correction			
045 *X12 Definition:*		Advancing Charges *Advanced Fee*	EA	P1	
405		Fuel Surcharge		PW	
520 *X12 Definition:*		Overdimensional *Oversized Premium*		PW	
535 *X12 Definition:*	B	Pickup Beyond Service Area Charge Pickup – Out of Area			
593	B	Re-Bill Charge			
675 *X12 Definition:*		Signature and Tally Record Service *Security Signature Service*		PS	
AAT *X12 Definition:*	B	DJIBOUTI Harmonized System Code Handling Charge Tax			
AFN	B	Air Craft Furnished and Not Used	NV	VT, MN, FC	
AIR *X12 Definition:*		Air *Air Freight*			
CIS *X12 Definition:*		DoD Constant Surveillance Service *Constant Surveillance*		PS	
DDN *X12 Definition:*		Dual Driver Protective Service with National Agency Check *Dual Driver with National Agency Check*		PS	
DDP		Dual Driver Protective Service		PS	
DEL		Delivery Charge		CW, MN	
DOC *X12 Definition:*	B	DJIBOUTI Documentation Fee Documentation Charge			
ECR *X12 Definition:*		Escorts/Couriers *Escort/Courier Service*	PR	PP	
EVC *X12 Definition:*	M	Excess Valuation *Excess Value Charge*	MV	PH	
HAZ *X12 Definition:*	M	Hazardous Material *Hazardous Cargo Charge*		PS	
HMA		Accessible Hazardous Material			
HMI		Inaccessible Hazardous Material			
HOL		Sunday or Holiday Pick-Up or Delivery		CW, MN	
MSG	B	Miscellaneous Charge			
PDY *X12 Definition:*	B	Delivery Beyond Service Area Charge Pickup and Delivery Beyond Service Area Charge			
PSS		Protective Service Security		PS	
PUD *X12 Definition:*		Pick-Up or Delivery Before or After Normal Business Hours *Pick-Up and Delivery*		CW, MN	
RCC *X12 Definition:*		Reconsignment Charge *Reconsignment*		CW, MN	
RCL		Redelivery	NV	CW, MP, FC, MS	
SAT		Saturday Pick-Up or Delivery		CW, MN	

SEV *X12 Definition:*	Security Escort Vehicle *Security Escort Vehicle Service*		PS
WTG	Waiting Time	TH	PR, MP

[B] Borrowed code from DE 150
[M] Migration code

Accessorial/Protective Service for Motor Shipments

X12 Code	DOD Definition	L003 221 [172-03]	L103 122 [173-03]	L112 276 [173-12]
045 *X12 Definition:*	Advancing Charges *Advanced Fee*	EA	P1	
405 *X12 Definition:*	Fuel Adjustment *Fuel Surcharge*		PW	
520 *X12 Definition:*	Overdimensional *Oversized Premium*		VT, FT, MW	
675 *X12 Definition:*	Signature and Tally *Security Signature Service*		PS	
BUA	Bunker Adjustment		PS	
CFC	Customs Fees – Container Level	TH	DV	
CHN *X12 Definition:*	Chains and Binders *Chain and Binders*	EA	ER	
CIS	Constant Surveillance		VT, MW	
CUF	Currency Adjustment Factor		VT, MW	
DCS *X12 Definition:*	Trailer Tracking Service *Discount Charge*			
DDN	Dual Driver with National Agency Check		VT, MW	
DDP *X12 Definition:*	Dual Driver *Dual Driver Protective Service*		VT, MW	
DEP *X12 Definition:*	Detention of Conveying Equipment and the Power Unit *Detention of Power Units*	TH	PR	
DET *X12 Definition:*	Detention of Conveying Equipment Excluding the Power Unit *Detention of Trailers*	TH	DV	
ELS	Extra Lights	NV, ST	VV	
EMT	Empty Movement	NV	VT	(Dispatch SPLC)
ERS	Empty Return	NV	VT	
EXC	Exclusive Use Charge		VT	
EXD	Extra Driver		VT	
EXP	Expedited Service Charge		VT	
HBB M	Handling Freight Not Adjacent to Vehicle	LC	CW, MS, MP	
HOL	Sunday or Holiday Pick-Up or Delivery	TH, DR	MH, MN	
IMP	Impactographs	EA	MA, MB	
LIE	Liability of Carrier Charge	MV	FC	
MEN	Escort Service with Overnight Subsistence	NG, PR	PN	
MES *X12 Definition:*	Escort (Standard) *Escort Service*	DM, NV, PR	VT, NV	
MET *X12 Definition:*	Escort (Telephones) *Escort Service (Telephone)*	NV	PV	
MNS *X12 Definition:*	Motor Surveillance (12-hour calls) *Motor Surveillance Service*		PM, MS	
MVS	Special Motor Surveillance Charge		PM, MS	
PER *X12 Definition:*	Overweight Permit *Permit Charge*	EA	PM, PV, HM, CW	(2 Char State Code)
PRL *X12 Definition:*	Prelodging *Prelodge Charge*	NV	PV	
PSS *X12 Definition:*	Protective Security (Without Armed Drivers) *Protective Security Service*		VT, MW	

PTS *X12 Definition:*	Protective Tarping *Protective Tarp for Security Purposes*	NV	PV	
PUD	Pick-Up and Delivery	TH, DR	MH, ND	
PVB	Bonded Privately Owned Vehicle Charge	NV	VT, PV	
RCC *X12 Definition:*	Reconsignment/Diversion *Reconsignment*	FR	PS	
RCL	Redelivery		CW, MS, MP	
RLS	Relocation of Vehicle	EA	RL	
RSS	Restricted Speeds		VT	(Max Speed)
RSV	Reservations	CF		
SAT *X12 Definition:*	Saturday Pick-Up Charge *Saturday Pick-Up or Delivery Charge*	TH, DR	MH, MN	
SDL	Split Delivery	SP	SP	
SEV *X12 Definition:*	Security Escort Service *Security Escort Vehicle Service*	NV	VT, MW	
SNS *X12 Definition:*	Satellite Motor Surveillance *Satellite Surveillance Service*		PM, MW	
SOC	Stop-Off Charge		SP	
SPU	Split Pick-Up	SP	SP	
SRG	Storage		PD, MS	
SRS	Surveying Routes	DM, PR, NV	VT, MW, NM, ND	
SSR [M] *X12 Definition:*	Surveying Routes *Safe Haven/Secure Holding Refusal*	DM, PR, NV	VT, MW, NM, ND	
TOW [M]	Motor Towaway Service	EA, NV	ER, PV	
TPA	Carrier Equipment Pool Charge	NV	VT, PV	
URC *X12 Definition:*	Loading/Unloading *Unloading/Reloading Charge*	LC	CW, MN	
VFN	Vehicles Furnished But Not Used	NV	VT, PV	(Dispatch SPLC)
VIS	Vehicles Inoperable	NV	PV	
VTS	Vehicle in Truckaway	NV	VT	
WTV	Weight Verification Charge		PV	

[M] Migration code

Bulk Fuel Shipments

X12 Code	DOD Definition	L003 221 [172-03]	L103 122 [173-03]	L112 276 [173-12]
045 *X12 Definition:*	Advancing Charges *Advanced Fee*	EA	P1	
ADL	Advance Loading Charge	TD	VT, DV	(Holding SPLC)
CLN	Cleaning Charge	NV	PV	
CTR	Circuitous Routing Charge			
DEP *X12 Definition:*	Detention With Power Unit *Detention of Power Units*	TH	PI	
DET *X12 Definition:*	Detention Without Power Unit *Detention of Trailers*	TH	DV	
EDD	Equipment Hose at Destination Charge		PM, MA	(Dispatch SPLC)

EDO	Equipment Hose at Origin Charge		PM, MA	(Dispatch SPLC)
EXP	Expedited Service Charge			
HOL	Sunday or Holiday Pick-Up or Delivery	TH, DR	MH, MN	
HOS *X12 Definition:*	Equipment Hose (over 36') *Hose Charge*	FT	FT, MA	
HOX *X12 Definition:*	Equipment Hose (Special Type) *Hose Charge Special*	FT	FT, MA	
PAJ *X12 Definition:*	Pumping Equipment *Pump Charge*	GL	PG, MN	
PUD	Pick-Up and Delivery	TH, DR	MH, ND	
RCC *X12 Definition:*	Reconsignment/Diversion *Reconsignment Charge*	FR	PS	
RCL	Redelivery		PM, MS	
SAT *X12 Definition:*	Saturday Pick-Up Charge *Saturday Pick-Up or Delivery Charge*	TH, DR	MH, MN	
SOC	Stop-Off Charge		PM, SP	
SPA *X12 Definition:*	Allowances *Special Allowance*			
SPU	Split Pick-Up	SP	SP	
SRG	Storage	TD, NV	DV	
VFN	Vehicles Furnished But Not Used	NV	VT, PV	(Dispatch SPLC)
WDS	Waterfront Delivery Charge	TH	PR	

[M] Migration code

Miscellaneous Services

X12 Code	DOD Definition	L003 221 [172-03]	L103 122 [173-03]	L112 276 [173-12]
TPS	Third-Party Service		(X12 Code)	(Description)

Pipeline Shipments

X12 Code	DOD Definition	L003 221 [172-03]	L103 122 [173-03]	L112 276 [173-12]
AIB	Additional Injection/Blending Service Charge	BA	BR	
DEL *X12 Definition:*	Delivery Service/Receipt and Issue *Delivery Charge*	BA	BR	
FTR	Filtration Service Charge	BA	BR	
LAS [M]	Co-mingling/Loss Allowance		PW	
ORS [M]	Receipt and Issue other than Normal Hours	TH	MN, MH	

[M] Migration code

[43-22] – Type of Equipment Furnished

858 Mapping: 1 330 N722 24

[47-04] – Type of Equipment Ordered

858 Mapping: 1 350 N504 301

Air

DoD Code	DoD Definition
QQ	Freight (Other than Freight Forwarder)
QU	Taxi
SS	Charter
TT	Freight Forwarder

Containers

DoD Code	DoD Definition
QA1	Non MILVAN, 20 feet and less
QA2	Non MILVAN, 24 feet
QA3	Non MILVAN, 27 feet
QA4	Non MILVAN, 35 feet
QA5	Non MILVAN, 40 feet
QA6	Non MILVAN, 45 feet and over
QM	MILVAN

Motor and TOFC (Dimensions are Outside Dimensions)

DoD Code	DoD Definition
A10	410 Dromedary, 102” L x 75 ½” H x 92” W, 410 cubic feet
A11	Van, air ride, 45 ft or 48 ft, padded, equipped with electric hydraulic powered crane loading unloading system or hydraulic powered
A16	Special Dromedary with MRO
A20	Motor vehicle transport trailer
A30	Removable gooseneck
A40	Flat bed trailer, hot shot, 40 ft and over
A5	Tractor, air ride
A50	Van, closed, padded/logistics type, freight only, w/air ride suspension, 40 ft and over
A6	Tractor, other than air ride
A7	Flat bed, 30 feet and less, hooked in tandem as one unit
A8	Van, air ride, w/temperature and humidity control
A9	Van, closed, padded, w/air ride suspension 2nd & 3rd proviso only
AA1	Van, closed air ride, 30 ft and less
AA2	Van, closed air ride, 31-40 ft
AA3	Van, closed air ride, over 40 ft
AB0	Lowboy, level deck, 10 axles and over

AB2	Lowboy, level deck, 2 axles
AB3	Lowboy, level deck, 3 axles
AB4	Lowboy, level deck, 4 axles
AB5	Lowboy, level deck, 5 axles
AB6	Lowboy, double drop, air ride, w/outriggers, 3 axles
AB7	Lowboy, level deck, 7 axles
AB9	Lowboy, level deck, 9 axles
AC2	Expandable low bed trailer, 2 axles
AC3	Expandable low bed trailer, 3 axles
AC4	Expandable low bed trailer, 4 axles
AD	Regular Dromedary
AD6	Dromedary with Mechanical Restraining Device (MRD)
AE0	Lowboy, double drop, 10 axles and over
AE2	Lowboy, double drop, 2 axles
AE3	Lowboy, double drop, 3 axles
AE4	Lowboy, double drop, 4 axles
AE5	Lowboy, double drop, 5 axles
AE6	Lowboy, double drop, w/outriggers, 3 axles
AE7	Lowboy, double drop, 7 axles
AE9	Lowboy, double drop, 9 axles
AF1	Flat bed, 30 ft and less
AF2	Flat bed, 31-40 ft
AF3	Flat bed, over 40 ft
AF4	Flat bed w/Conestoga trailers 30 ft and less
AF5	Flat bed w/Conestoga trailers 31- 40 ft
AF6	Flat bed w/Conestoga trailers over 40 ft
AG1	Van, open, 30 ft and less
AG2	Van, open, 31-40 ft
AG3	Van, open, over 40 ft
AG4	Tautliner Van w/Tarps, 30’ or less
AG5	Tautliner Van w/Tarps, 31’ to 40’
AG6	Tautliner Van w/Tarps, over 40’
AH2	Drop frame trailer, drop/step deck, 2 axles
AH3	Drop frame trailer, drop/step deck, 3 axles
AI2	Drop frame trailer, drop/step deck, air ride, 2 axles
AI3	Drop frame trailer, drop/step deck, air ride, 3 axles
AJ0	Lowboy, level deck, air ride, 10 axles and over
AJ2	Lowboy, level deck, air ride, 2 axles
AJ3	Lowboy, level deck, air ride, 3 axles
AJ4	Lowboy, level deck, air ride, 4 axles
AJ5	Lowboy, level deck, air ride, 5 axles
AJ6	Lowboy, level deck, air ride, w/outriggers, 3 axles
AJ7	Lowboy, level deck, air ride, 7 axles
AJ9	Lowboy, level deck, air ride, 9 axles
AK	Van, refrigerated, perishable food
AL2	Extendable flat bed trailer, 2 axles
AL3	Extendable flat bed trailer, 3 axles
AL4	Extendable flat bed trailer, 4 axles
AM0	Lowboy, double drop, air ride, 10 axles and over
AM2	Lowboy, double drop, air ride, 2 axles
AM3	Lowboy, double drop, air ride, 3 axles
AM4	Lowboy, double drop, air ride, 4 axles
AM5	Lowboy, double drop, air ride, 5 axles

AM6	Lowboy, double drop, air ride, w/outriggers, 3 axles
AM7	Lowboy, double drop, air ride, 7 axles
AM9	Lowboy, double drop, air ride, 9 axles
AN	Adjustable tilt bed trailer
AO	Driveaway/Truckaway
AO1	Straight truck, enclosed van, air ride, 12 ft, 5,000 lb, maximum cargo capacity
AO2	Straight truck, enclosed van, air ride, 20 ft, 13,000 lb, maximum cargo capacity
AO3	Straight truck, enclosed van, air ride, 12 ft, 5,000 lb, maximum cargo capacity
AO4	Straight truck, enclosed van, air ride, 20 ft, 13,000 lb, maximum cargo capacity
AO5	Straight truck, enclosed van, 20 ft, 13,000 lb, maximum cargo capacity, padded/logistics type, w/ air ride suspension
AO6	Pickup truck, with cap, 18 ft. long, 500 lbs maximum cargo capacity
AO7	Econo van, 17 ft long, 2,000 lbs maximum cargo capacity
AO8	Dump trailer, 28 ft long, 2 axle, hydraulic powered lift
AP	Aft steering unit
AR	Van, refrigerated, other
AS	Livestock transporter
AT1	Tank, 5001-8000 gallons
AT2	Tank, over 8000 gallons
AU	Container, shipper owned, environmental, temperature and humidity controlled
AV1	Van, closed, 30 ft and less
AV2	Van, closed, 31-40 ft
AV3	Van, closed, over 40 ft
AV4	Van, closed, Rollerbed, 40 ft, fixed rollers
AV5	Van, closed, Rollerbed, 40 ft, retractable rollers
AV6	Van, closed, Rollerbed, 45 ft and over, fixed rollers
AV7	Van, closed, Rollerbed, 45 ft and over, retractable rollers
AV8	Van, closed, 45 to 48 ft, 12’ 4" high
AX	Flat bed, all lengths (twist lock)
AY1	Van, closed, 30 ft and less, double type single unit
AY2	Van, closed, 30 ft and less, hooked in tandem as one unit
AZ1	Flat bed, air ride, 30 ft and less
AZ2	Flat bed, air ride, 31-40 ft
AZ3	Flat bed, air ride, over 40 ft

Other Methods

DoD Code	DoD Definition
8X	Pipeline
EE	Bus
MF	Freight Forwarder (Surface)

Rail

DoD Code	DoD Definition
KA	Box, automobile
KB1	Flat, bilevel, not enclosed
KB2	Flat, bilevel, enclosed
KC	Box, nuclear waste, DODX w/racks permanently affixed

KD	Gondola, drop ends
KE	Box, end door
KF1	Flat, any other type, not over 70'
KF2	Flat, any other type, over 70' but not over 90'
KG1	Gondola, any other type, 52’ hi capacity
KG2	Gondola, any other type, 65’ hi capacity
KH1	Hopper open-top, 80 tons and less
KH2	Hopper open-top, 100 tons, 2000 cubic feet
KH3	Hopper, closed-top, 70 tons, 2000 cubic feet
KH4	Hopper, closed top, 100 tons, 2929 cubic feet
KH5	Hopper, closed-top, 100 tons, 4000 cubic feet
KH6	Hopper, closed-top, 100 tons, 4600 cubic feet
KK1	Refrigerator, perishable foods, not over 53' mechanical
KK2	Refrigerator, perishable foods, over 53', but not over 61' mechanical
KL1	Flat, trilevel, not enclosed
KL2	Flat, trilevel, enclosed
KO1	Box, any other type, not over 52' 6"
KO2	Box, any other type, over 52' 6", but not over 60’ 9"
KO3	Box, any other type, over 60’ 9"
KP	Box, damage prevention type
KR1	Refrigerator, any other type, not over 53' mechanical
KR2	Refrigerator, any other type, over 53', but not over 65’ mechanical
KS	Stock
KT1	Tank, 10,000 gallons
KT2	Tank, 20,000 gallons
KT3	Tank, 30,000 gallons
KU	Caboose, DODX armed guard
KW1	TOFC car
KW2	COFC car
KX	Box, missile, DODX w/refrigeration
KY	Flat, heavy duty
KZ1	Flat, DODX, not over 60’
KZ2	Flat, DODX, over 60’
KZ3	Locomotive under own power, on own wheels
KZ4	Locomotive not under own power, on own wheels
KZ5	Locomotive not under own power, not on own wheels

Water

DoD Code	DoD Definition
WA	Steamship
WE	Covered Barge
WG	Cylinder Tank Barge
WI	Flush Deck Oil Barge
WK	Liquid Covered Barge
WM	Open Barge
WP	Special Auto Barge

[92-01] – Breakdown Structure Detail Code

858 Mapping: 1 560 FA201 1196

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

[117-05] – Freight Weight Qualifier

858 Mapping: 2 145 L005 187

Data Value	-	Definition
A	-	Consolidated Weight
A1	-	Dimensional Weight
A2	-	Reweighed By Carrier
A3	-	Shippers Weight
A4	-	Average Weight per Load
B	-	Billed Weight

C	-	Actual Net Repeated for Combination
CD	-	Chargeable Dunnage
CE	-	Certified Weight of Cargo
D	-	Destination Weight Agreement
DR	-	Drained Weight
E	-	Estimated Net Weight
F	-	Deficit Weight
FR	-	Freight Weight
G	-	Gross Weight
H	-	Weight Per 100 Feet
I	-	Weight Per 1000 Feet
J	-	Light Weight
K	-	Clean Out
L	-	Legal Weight
LC	-	Maximum Lading Capacity
M	-	Minimum Weight (for rate)
N	-	Actual Net Weight
ND	-	Nonchargeable Dunnage
NI	-	Non-Temporary Storage Weight In
NR	-	Non-Temporary Storage Weight Rehandled
NT	-	Non-Temporary Storage Weight Out
O	-	Excess Weight Over Maximum
P	-	Weight Per 100 Units
PA	-	Pallet Weight
Q	-	Weight Per 1000 Units
R	-	Per Unit Dunnage
RG	-	Reweigh Gross Weight
RN	-	Reweigh Net Weight
RT	-	Reweigh Tare Weight
S	-	State Weight
SF	-	Storage in Transit Final Weight Out
SI	-	Storage in Transit Weight in
SK	-	Skid Weight
SO	-	Storage in Transit Weight Out
T	-	Tare Weight
U	-	Weight Per Unit
V	-	Non Transit Weight (On Transit Bills Only)
W	-	Transit Weight (On Transit Bills Only)
WA	-	Administrative Weight Allowance
WB	-	Unaccompanied Baggage Weight
WG	-	Professional Gear Weight
WJ	-	Joint Travel Regulation Weight
X	-	Maximum Weight (for Rate)
Y	-	Theoretical Weight
Z	-	Mutually Defined

[117-09] – Type Pack Qualifier

858 Mapping: 2 145 L009 211

[117-10] – Type Pack Sub Qualifier

858 Mapping: 2 145 L010 458

[126-01] – HAZMAT – Unit of Measure Code

858 Mapping: 2 170 LH101 355

DOD Code	X12 Code	DOD Definition	L010 458 [117-10]	LH101 355 [126-01]
AB	MSV *X12 Definition:*	MSCVAN *MSCVAN – Military Sealift Command Van*	AA, AB, AC, AD, AE, AF, AL, AM, AN, AP, AT, AU, AV, AW, AZ, A3, A4, A5	CH
BD	BDL	Bundle		BD
BE	BAL	Bale		BA
BG	BAG *X12 Definition:*	Bag, Burlap or Cloth *Bag*		BG
BL	BBL	Barrel		BR
BS	BSK *X12 Definition:*	Basket *Basket or Hamper*		BS
BX	BOX	Box		BX
CA	CAB	Cabinet		
CB	CBY	Carboy		CB
CC	CNA *X12 Definition:*	Household Goods Container, Wood *Household Goods Container*		CH
CL	COL	Coil		CX
CM	CNB *X12 Definition:*	Container, MAC-ISO, lt. wgt. 8x8x20 foot air *Container*		CH
CN	CAN	Can		CN
CO	CNT *X12 Definition:*	Container, other than CC, CM, CU, CW, MW, MX *Container*		CH
CR	CRT	Crate		CP
CS	CAS	Case		CA
CT	CTN	Carton		CT
CU	CNC *X12 Definition:*	Container, Navy Cargo Transporter *Container*		CH
CW	CND *X12 Definition:*	Container, Commercial Highway Lift *Container*		CH
CY	CYL	Cylinder		CL
DB	DUF *X12 Definition:*	Dufflebag *Duffle Bag*		
DR	DRM	Drum		DR
EC	CNE	Engine Container		CH
ED	CRD *X12 Definition:*	Engine Cradle or Dolly *Cradle*		
EN	ENV	Envelope		EV
FK	TRK *X12 Definition:*	Footlocker (Trunk) *Trunk and Chest*		
HA	HPR	Hamper		

KE	KEG	Keg		KE
LP	PLL M	463L Air Pallet		PF
LS	LSE *X12 Definition:*	Loose, Not Packed *Loose*		
MW	CNF	Multiwall Container Secured to Warehouse Pallet		CH
MX	MXD *X12 Definition:*	Mixed *Mixed Type Pack*		
PC	PCS	Piece		PC
PL	PAL	Pail		PA
PT	PLT *X12 Definition:*	Palletized Unit Load other than code MW *Pallet*		PL
RL	REL	Reel		RE
RO	ROL	Roll		RL
RT	WHE *X12 Definition:*	RORO (Roll-Off, Roll-On) *On Own Wheel*		
SA	SAK *X12 Definition:*	Sack, Paper *Sack*		SJ
SB	SKE *X12 Definition:*	Skid, Box *Skid*		
SD	SKD	Skid		SV
SH	SHT	Sheet		SH
SL	SPL	Spool		SO
SW	SCS	Suitcase		
TB	TUB	Tub		
TC	TKR	Tank Car		TK
TK	TRU	Truck		TK
TT	TKT	Tank Truck		TK
TU	TBE	Tube		TB
UX	UNT *X12 Definition:*	Unitized (use RT for unitized cargo on RORO) *Unit*		
VC	VPK *X12 Definition:*	Van Chassis *Van Pack*		
VE	VEH	Vehicle		NV
VO	VOC	Vehicle in Operating Condition		ZZ
VS	TBN *X12 Definition:*	SEAVAN – TOTE *Tote Bin*		TE
WR	WRP	Wrapped		WR
X1	CNX *X12 Definition:*	CONEX (Government Owned Container) *CONEX – Container Express*	X0-X9	CH
YB	MLV *X12 Definition:*	MILVAN *MILVAN – Military Van*	YA, YB, TC, TD, YE, YF, YL, YM, YN, YP, YT, YU, YV, YW, YZ, Y3, Y4, Y5	CH
ZB	SVN *X12 Definition:*	SEAVAN *SEAVAN – Sea Van*	ZA, ZB, ZC, ZD, ZE, ZF, ZL, ZM, ZN, ZP, ZT, ZU, ZV, ZW, ZZ, Z3, Z4, Z5	CH

[126-06] – HAZMAT – English Measurement Code

858 Mapping: 2 170 LH106 355

Data Value	-	Definition
20	-	20 Foot Container
2R	-	Kilocurie
4D	-	Curie
BR	-	Barrel
CW	-	Hundred Pounds (CWT)
D2	-	Shares
FO	-	Fluid Ounce
G2	-	U.S. Gallons Per Minute
GA	-	Gallon
LB	-	Pound
LG	-	Long Ton
M0	-	Magnetic Tapes
M5	-	Microcurie
MU	-	Millicurie
NS	-	Short Ton
OZ	-	Ounce
PN	-	Pounds Net
PS	-	Pounds per Sq. Inch
PT	-	Pint
Q2	-	Pint U.S. Dry
QT	-	Quart

[141-01] – Breakdown Structure Detail Code

858 Mapping: 2 240 FA201 1196

Data Value	-	Definition
84	-	Total Direct Costs
A1	-	Department Indicator
A2	-	Transfer from Department
A3	-	Fiscal Year Indicator
A4	-	Basic Symbol Number
A5	-	Sub-Class
A6	-	Sub-Account Symbol
AT	-	Air Force Transportation Account Code (ATAC)
B1	-	Budget Activity Number
B2	-	Budget Sub-activity Number
B3	-	Budget Program Activity
C1	-	Program Element
C2	-	Project Task or Budget Subline
D1	-	Defense Agency Allocation Recipient
D4	-	Component Sub-allocation Recipient
D6	-	Sub-allotment Recipient
D7	-	Work Center Recipient
E1	-	Major Reimbursement Source Code
E2	-	Detail Reimbursement Source Code

E3	-	Customer Indicator
F1	-	Object Class
F3	-	Government or Public Sector Identifier
G2	-	Special Interest Code or Special Program Cost Code
I1	-	Abbreviated Department of Defense (DoD) Budget and Accounting Classification Code (BACC) ** Use 'I1' to denote Abbreviated Department of Defense (DoD) Budget and Accounting Classification Code (BACC)
J1	-	Document or Record Reference Number
K6	-	Accounting Classification Reference Code
L1	-	Accounting Installation Number
M1	-	Local Installation Data
MD	-	Movement Designator Code (MDC)
N1	-	Transaction Type
P5	-	Foreign Military Sales (FMS) Line Item Number
TA	-	Transportation Account Code (TAC)
ZZ	-	Mutually Defined

[185-03] – Freight Rate Qualifier

858 Mapping: 2 150 L103 122

X12 Code		DOD Definition
AV		Ad Valorum (Per Cent of Value)
BR *X12 Definition:*		Per Barrel (Pipeline/Barge only) *Per Barrel*
CW		Per Hundred Weight
DH	M	Per Hundred Dollars
DR		Per Dromedary Service Shipment
DS		Per Hundredweight Per Mile Per Dromedary Service Shipment
DV *X12 Definition:*		Per Day Per Vehicle (Rail Car) *Per Day Per Vehicle*
ER		Per Each Request
FC		Flat Charge
FR		Flat Rate
FT		Per Foot
HD		Per Hundredweight Per Dromedary Service Shipment
HM		Rate Per Hundred Weight Per Mile
HX		Hundredweight Per Day
IN		Per Inch
LB		Per Pound
MA		Minimum Per Service
MB		Per Mile Per Service
MC		Minimum Per Car
MH		Per Man Per Hour
MN		Minimum
MP		Maximum Per Shipment
MS		Minimum Per Shipment
MV		Per Mile Per Vehicle (Rail Car) Moved
ND		Minimum Per Driver
NM		Per Mile Per Person
NP		Minimum Per Day Per Person
NV		Minimum Per Day Per Vehicle
P1		Per Advancement

PA	Per Container
PC	Per Car
PD	Per Day
PG	Per Gallon
PH *X12 Definition:*	Per Hundred of Basic Unit *Per Hundred (of Basic Unit)*
PI *X12 Definition:*	Hourly Rate Per Vehicle (Rail Car) *Hourly Rate Per Vehicle*
PM	Per Mile
PN *X12 Definition:*	Per Night (Per Person) *Per Night*
PP	Per Piece
PR	Per Hour
PS	Per Shipment
PV	Per Vehicle
PW	Percentage of Charges
PY	Per Gallon Per Mile
RL	Per Relocation
SP	Per Stop
ST	Per Short Ton
VA	Per Vehicle Moved
VH	Per Vehicle Used
VR	Per Rail Car Used
VT	Per Mile Per Vehicle
VU	Per Mile Per Vehicle (Rail Car) Used
VV	Per Vehicle Per State
XP	Maximum Per Person

[M] Migration code

Section 9.0

ADDITIONAL INFORMATION FOR THE DEVELOPER

This section describes logic for bill of lading data groups. It also presents a tutorial on shipment stop scenarios.

Looping Logic for Bill of Lading Data Groups

This section contains added explanation of data groups 60, 80, 100, 120, and 190. Some examples are included for clarification.

DATA GROUP 60 - EQUIPMENT INFORMATION

This section offers four examples of bill of lading equipment configurations.

- Primary equipment (DROM) on secondary equipment (railcar)
- Government owned vehicles on primary equipment (railcar)
- Primary equipment (motor van)
- Primary equipment (motor van) and primary equipment (DROMs) on secondary equipment (flatbed)

Terms

Before examining the examples, the developer needs to be familiar with the following terms:

- *Shipper Equipment/Vehicles* - Equipment/vehicle(s) supplied/owned by the shipper to include DROMs, containers, and vehicles. This equipment is usually conveyed using primary equipment.
- *Primary Equipment* - Equipment ordered by the shipper from the carrier. This equipment or its equivalent is furnished by the carrier and used in the transportation of the shipment. The shipper pays only for the primary equipment ordered.
- *Secondary Equipment* - Equipment furnished by the carrier in addition to primary equipment. Generally, this equipment is used to convey the primary equipment. The shipper incurs no cost for the use of secondary equipment. (Example: a rail car used to convey shipper ordered containers)

CONFIGURATION 1 - PRIMARY EQUIPMENT (DROM) ON SECONDARY EQUIPMENT (RAILCAR)

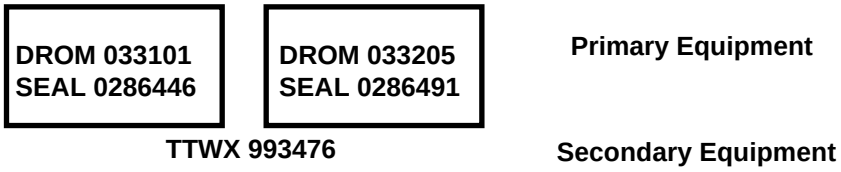


Table 9.1 - Mapping and Example Data for Equipment Configuration 1

Data Name	Mapping	Prime Eq. 1	Prime Eq. 2	Prime Eq. 3
Primary Furnished (Header & HL~100)				
Initials	N701	DROM	DROM	
Numbers	N702	033101	033205	
Cube	N708	155	155	
Cube Qual.	N709	E	E	
Length	N715			
Equip. Type	N722	AD2x	AD2x	
Secondary Furnished (Header)				
Initials	NA03	TTWX	TTWX	
Numbers	NA04	993476	993476	
Seals (Header)				
Number	M701-04	0286446	0286491	
Applied By	M705	SH	SH	
Primary Ordered (Header)				
Length	N501			
Weight Cap.	N502			
Cube Cap.	N503	132	132	
Equip. Type	N504	AD1x	AD1x	
Government Owned Equip. (HL~100)				
Vehicle Identifier	NA01-04			
Container/DROM Initials	NA03			
Numbers	NA04			
Seal No.	M701-04			
Seal Applied	M705			

Configuration 1 Example

- HEADER AREA

N7~DROM~033101~~~~~~155~E~~~~~~~~~~~~~~AD2x n/l	Primary 1 furnished
NA~~~TTWX~993476 n/l	Secondary
M7~0286446~~~~SH n/l	Primary seals
N5~~~132~AD1x n/l	Primary ordered
N7~DROM~033205~~~~~~155~E~~~~~~~~~~~~~~	
AD2x n/l	Primary 2 furnished
NA~~~TTWX~993476 n/l	Secondary
M7~0286491~~~~SH n/l	Primary seals
N5~~~132~AD1x n/l	Primary ordered

- DETAIL AREA

HL~100~I n/l	
N7~DROM~033101 n/l	Primary 1 visibility
L5~ ... n/l	
HL~100~I n/l	
N7~DROM~033205 n/l	Primary 2 visibility
L5~ ... n/l	

CONFIGURATION 2 - GOVERNMENT OWNED VEHICLES ON PRIMARY EQUIPMENT (RAILCAR)

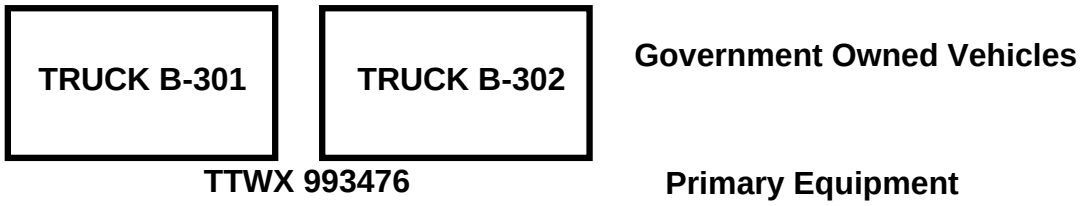


Table 9.2 - Mapping and Example Data for Equipment Configuration 2

Data Name	Mapping	Prime Eq. 1	Prime Eq. 2	Prime Eq. 3
Primary Furnished (Header & HL~100)				
Initials	N701	TTWX		
Numbers	N702	993476		
Cube	N708			
Cube Qual.	N709			
Length	N715	08904		
Equip. Type	N722	KF2x		
Initials	NA03			
Numbers	NA04			
Seals on Primary (Header)				
Number	M701-04			
Applied By	M705			
Primary Ordered (Header)				
Length	N501	08904		
Weight Cap.	N502	149000		
Cube Cap.	N503			
Equip. Type	N504	KF2x		
Government Owned Equip. (HL~100)				
Vehicle Id Qualifier	NA01	VT	VT	
Vehicle VIN or filler	NA02	VIN	VIN	
Vehicle Type Qualifier	NA03	NONX	NONX	
Vehicle Bumper No.	NA04	B-301	B-302	
Container/DROM				
Initials	NA03			
Numbers	NA04			
Seal No.	M701-04			
Seal Applied	M705			

Configuration 2 Example

- HEADER AREA

N7~TTWX~993476~~~~~~~~~~~~~~08904~~~~~~~	
KF2x n/l	Primary 1 furnished
N5~08904~149000~~KF2x n/l	Primary ordered

- DETAIL AREA

HL~100~I n/l	
N7~TTWX~993476 n/l	Primary 1 visibility
NA~VT~VIN~NONX~B-301 n/l	Gov't owned vehicle
L5~ ... n/l	
HL~100~I n/l	
N7~TTWX~993476 n/l	Primary 1 visibility
NA~VT~VIN~NONX~B-302 n/l	Gov't owned vehicle
L5~ ... n/l	

CONFIGURATION 3 - PRIMARY EQUIPMENT (MOTOR VAN)

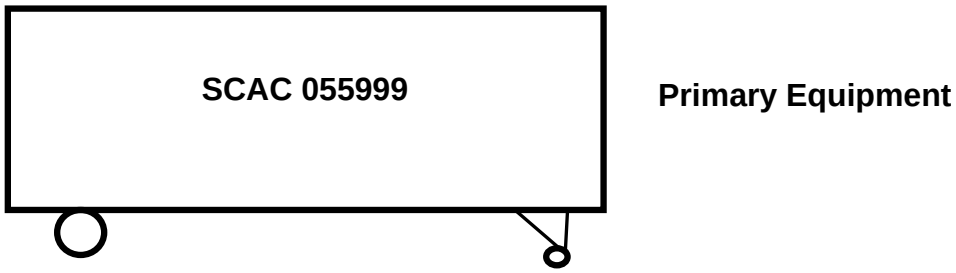


Table 9.3 - Mapping and Example Data for Equipment Configuration 3

Data Name	Mapping	Prime Eq. 1	Prime Eq. 2	Prime Eq. 3
Primary Furnished (Header & HL~100)				
Initials	N701	SCAC		
Numbers	N702	055999		
Cube	N708			
Cube Qual.	N709			
Length	N715	04500		
Equip. Type	N722	AV3x		
Secondary Furnished (Header)				
Initials	NA03			
Numbers	NA04			
Seals on Primary (Header)				
Number	M701-04			
Applied By	M705			
Primary Ordered (Header)				
Length	N501	04000		
Weight Cap.	N502	40000		
Cube Cap.	N503			
Equip. Type	N504	AV2		
Government Owned Equip. (HL~100)				
Vehicle Info	NA01-04			
Container/DROM				
Initials	NA03			
Numbers	NA04			
Seal No.	M701-04			
Seal Applied	M705			

Configuration 3 Example

- HEADER AREA

N7~SCAC~055999~~~~~~~~~~~~~~04500~~~~~~~~

AV3x n/l	Primary Equipment Furnished
NA~~~TTWX~993476 n/l	Secondary Equipment Furnished
N5~04000~40000~~AV2x n/l	Primary Equipment Ordered

- DETAIL AREA

HL~100~I n/l

No visibility needed for this configuration

N7~SCAC~05599 n/l

L5~ ... n/l

CONFIGURATION 4 - PRIMARY (MOTOR VAN) AND PRIMARY (DROM) ON SECONDARY (FLATBED)

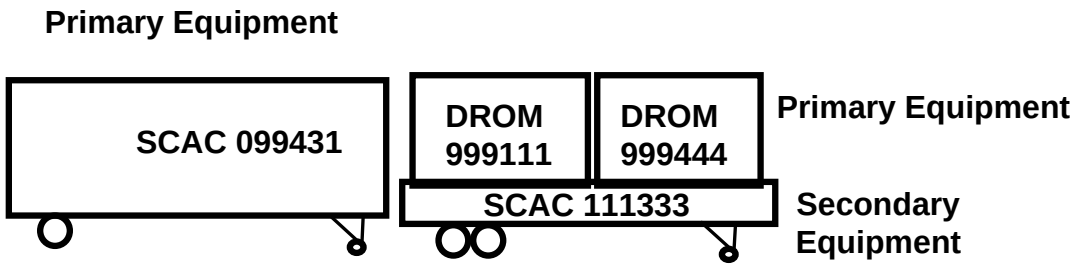


Table 9.4 - Mapping and Example Data for Equipment Configuration 4

Data Name	Mapping	Prime	Prime	Prime
		1	2	3
Primary Furnished (Header & HL~100)				
Initials	N701	SCAC	DROM	DROM
Numbers	N702	099431	999111	999444
Cube	N708		132	132
Cube Qual.	N709		E	E
Length	N715	04000		
Equip. Type	N722	AV2x	AD1x	AD1x
Secondary Furnished (Header)				
Initials	NA03		SCAC	SCAC
Numbers	NA04		111333	111333
Seals on Primary (Header)				
Number	M701-04		222222	333333
Applied By	M705		SH	SH
Primary Ordered (Header)				
Length	N501	04000		
Weight Cap.	N502	40000		
Cube Cap.	N503		132	132
Equip. Type	N504	AV2x	AD1x	AD1x
Government Owned Equip. (HL~100)				
Vehicle Info	NA01-04			
Container/DROM				
Initials	NA03			
Numbers	NA04			
Seal No.	M701-04			
Seal Applied	M705			

Configuration 4 Example

- HEADER AREA

N7~SCAC~099431~~~~~~~~~~~~~~04000~~~~~~~AV2x n/l	Primary 1 furnished
N5~04000~40000~~AV2x n/l	Primary ordered
N7~DROM~999111~~~~~~132~E~~~~~~~~~~~~~AD1x n/l	Primary 2 furnished
NA~~~SCAC~111333 n/l	Secondary
M7~222222~~~~SH n/l	Primary seals
N5~~~132~AD1x n/l	Primary ordered
N7~DROM~999444~~~~~~132~E~~~~~~~~~~~~~AD1x n/l	Primary 3 furnished
NA~~~SCAC~111333 n/l	Secondary
M7~333333~~~~~SH n/l	Primary seals
N5~~~132~AD1x n/l	Primary ordered

- DETAIL AREA

HL~100~I n/l	
N7~SCAC~099431 n/l	Primary 1 visibility
L5~ ... n/l	
HL~100~I n/l	
N7~DROM~999111 n/l	Primary 2 visibility
L5~ ... n/l	
HL~100~I n/l	
N7~DROM~999444 n/l	Primary 3 visibility
L5~ ... n/l	

DATA GROUP 80 - STOP INFORMATION

The S5 stop loop of the 858 is used for any pickup or delivery performed between the origin and destination points. This includes split pickup and delivery points that share the same Standard Point Location Code as the origin and/or destination point. The origin address does not occur in the S5 stop loop. The stop sequence number that appears in the S5 segment must also appear with corresponding line items in the N9 segment within the HL 100 loop. Further examples of DLA stop-off scenarios can be found in Section 6.0.

- HEADER AREA

N1~SF~Ship from name n/l	Origin
N4~Charleston~SC~294087000~~SL~447178 n/l	Origin SPLC
N1~ST~Ship to name n/l	Destination
N4~Jacksonville~FL~32218000~~SL~491200 n/l	Destination SPLC
S5~1~LD~~~~~~~~~447178000 n/l	Stop sequence number and SPLC for split pickup at origin
N1~LP~Loading party name n/l	
S5~2~LD~~~~~~~~~447100000 n/l	Stop sequence number and SPLC for stop to load
N1~LP~Loading party name n/l	
S5~3~UL~~~~~~~~~447220000 n/l	Stop sequence number and SPLC for stop to unload
N1~UP~Unloading party name n/l	
S5~4~UL~~~~~~~~~491200000 n/l	Stop sequence number and SPLC for split delivery at destination
N1~UP~Unloading party name n/l	

- DETAIL AREA

HL~100~I n/l	
N9~QN~1 n/l	
	Cross reference of line item to stop sequence number 1
L5~... n/l	Commodity description
L0~... n/l	Commodity quantity
HL~100~I n/l	
N9~QN~2 n/l	Cross reference of line item to stop sequence number 2
L5~... n/l	Commodity description
L0~... n/l	Commodity quantity
HL~100~I n/l	
N9~QN~3 n/l	Cross reference of line item to stop sequence number 3
L5~... n/l	Commodity description

L0~... n/l	Commodity quantity
HL~100~I n/l	
N9~QN~4 n/l	Cross reference of line item to stop sequence number 4
L5~... n/l	Commodity description
L0~... n/l	Commodity quantity
HL~100~I n/l	Delivered at destination
L5~... n/l	Commodity description
L0~... n/l	Commodity quantity
HL~100~I n/l	Delivered at destination
L5~... n/l	Commodity description
L0~... n/l	Commodity quantity
HL~100~I n/l	Delivered at destination
L5~... n/l	Commodity description
L0~... n/l	Commodity quantity
HL~300~SS	Accessorial Service Loop for Stop Offs
N9~QN~1	Stop sequence from S5
L0~300	
L1~~~SP~5000~~~~SPU~~~~447178000	Charge, stop (SOC) service, and SPLC
HL~300~SS	
N9~QN~2	Stop sequence from S5
L0~300	
L1~~~~5000~~~~SOC~~~~447100000	Charge, stop (SOC) service, and SPLC
HL~300~SS	
N9~QN~3	Stop sequence from S5
L0~300	
L1~~~~5000~~~~SOC~~~~447220000	Charge, stop (SOC) service, and SPLC
HL~300~SS	
N9~QN~4	Stop sequence from S5
L0~300	
L1~~~SP~5000~~~~SPU~~~~491200000	Charge, stop (SOC) service, and SPLC

DATA GROUP 100 - COMMODITY HEADER INFORMATION

DATA GROUP 120 - COMMODITY DETAIL INFORMATION

A commodity is a single type of product or material. A line item on a transportation bill can describe a single commodity. There may be multiple subpacks of the commodity within the line item. There may be many line items of the same commodity.

The data group 100 - Commodity Header Information is described within the HL 100 Detail - Line Item Description Loop. When constructing this loop, one rule must be followed: A line item (HL 100 loop) can describe a single commodity only, however, that commodity can occur across multiple line items (HL 100 loops).

The data group 120 - Commodity Detail Information is described in the L0 loop of the HL 100 loop. An L0 segment should occur for every subpack of the line item. If a pallet and a box move under the same line item, they are described in separate L0 loops. Two rules must be followed when constructing an L0 segment.

1) If the commodity quantity is expressed as weight, it appears in the L002 and L003 elements. The L004, L005, and L011 elements should not be used.

2) If the commodity quantity is expressed in units other than weight, those units also appear in the L002 and L003 elements. The L004, L005, and L011 elements are used to carry the weight information if required in addition to the quantity units.

DATA GROUP 190 - HAZMAT INFORMATION

The data group 190 - HAZMAT Information, if applicable, appears once for each HL 100 loop in the LH1 loop. Sometimes special instructions appear on the GBL cover page. Those instructions should be grouped in the LH1 loop under the first occurrence of the HL 100 loop. The line item specific instructions should be grouped in the LH1 loop with their corresponding commodity. If a line item requires a HAZMAT indicator only, it is carried in the LH1 segment and no other LH segments are used.

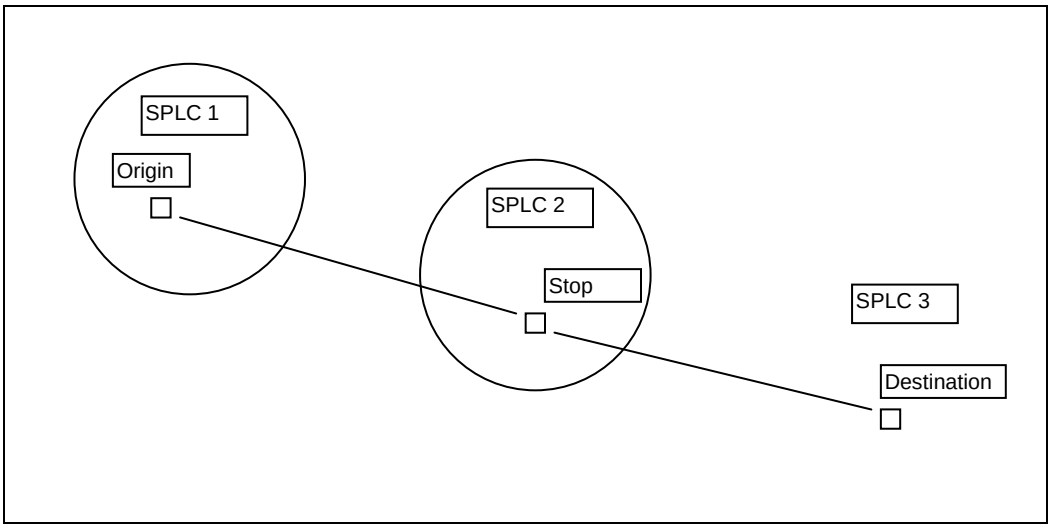
Shipment Stop Scenarios

MSDDC Tailored Transportation Contract Traffic rules publications identify three types of stops that may occur during a shipment: Stops (SOC), split pickups/deliveries (SPU, SDL), and objective service supply deliveries (DIS). The DoD needs visibility of these shipments and DFAS needs to pay for the associated accessorial services. Consequently, the DTEB Stop-off Work Group examined the functional requirement and developed the following three stop-off scenarios and accompanying EDI examples. DLA and other users of Tailored Transportation Contract Traffic agreements should use the following scenarios to build EDI transactions that are compliant with DTEB conventions.

STOP (SOC)

The SPLC of a stop is always different from the origin and destination SPLC. Figure 9.1 calls for one S5 loop for SPLC 2.

Figure 9.1 Stops



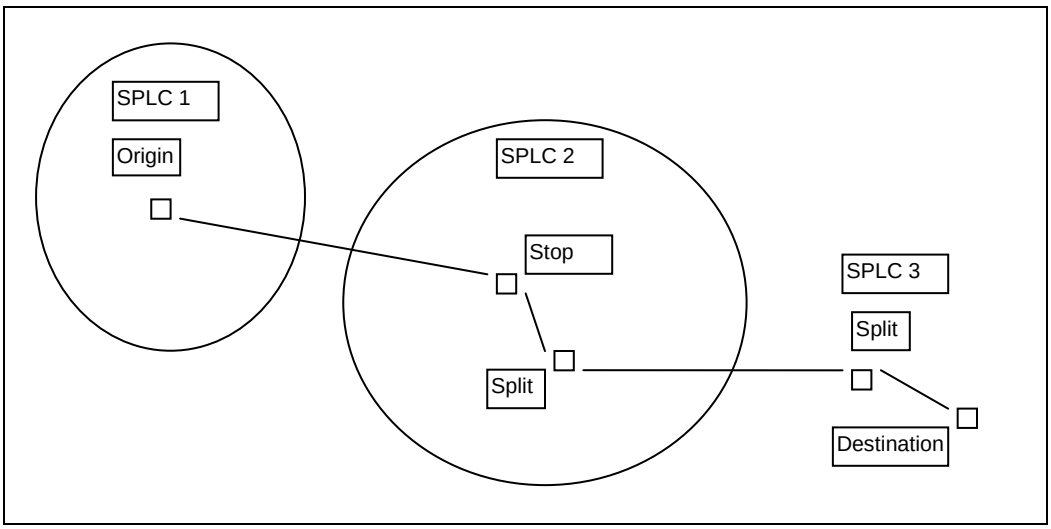
EXAMPLE: (NOTE: THE TILDE "~" CHARACTER SERVES AS THE DATA ELEMENT DELIMITERS IN THE FOLLOWING EXAMPLES.)

```
ST
.
S5~1~UL~~~~~~~~SPLC2          Stop unload
.
HL~100~I                      Line 1 at stop 1
N9~QN~1
.
HL~300~SS
N9~QN~1                       Stop sequence from S5
L0~300
L1~~~~5000~~~~SOC             Charge, stop (SOC) service, and SPLC
.
SE
```

SPLIT STOPS (SPU, SDL)

Split stops occur after an accessorial "stop-off" and happen within the same SPLC location. Figure 9.2 Illustrates a split delivery at SPLC 2 and a split delivery at SPLC 3. This example calls for three S5 loops.

Figure 9.2 Split Stops



EDI X12 EXAMPLE:

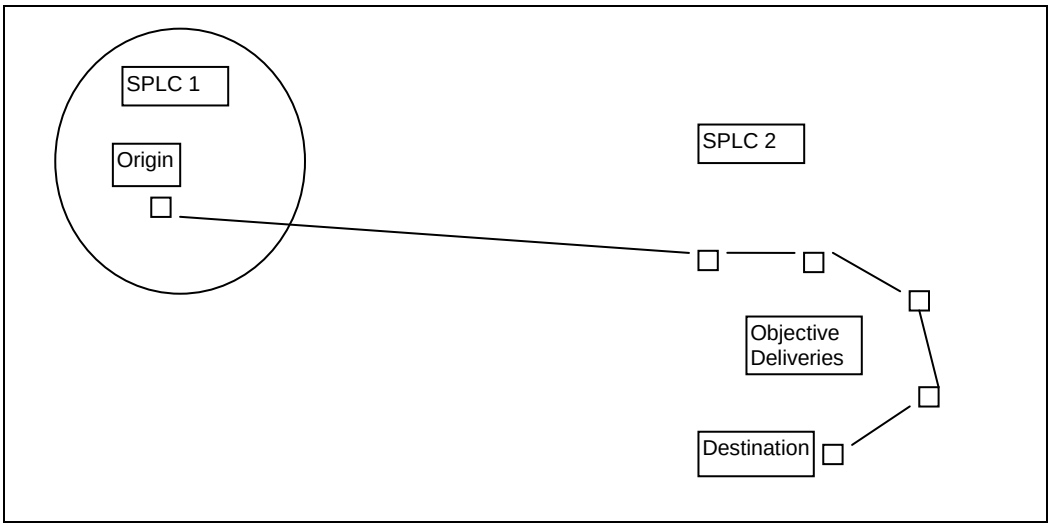
```
ST
.
S5~1~UL~~~~~~~~SPLC2          Stop unload
S5~2~UL~~~~~~~~SPLC2          Split unload
S5~3~UL~~~~~~~~SPLC3          Split unload
.
HL~100~I                      Line 1 at stop 1
N9~QN~1
HL~100~I                      Line 2 at split
N9~QN~2
HL~100~I                      Line 3 at split
N9~QN~3
.
HL~300~SS
N9~QN~1                       Stop sequence from S5
L0~300
L1~~~~5000~~~~SOC~~~~SPLC2    Charge, service, and SPLC

HL~300~SS
L0~300~2~SP                   Quantity of accessorial service units
L1~~SP~5000~100.00~~~~SDL     Rate and charge for two split deliveries (SDLs)
SE
```

OBJECTIVE SERVICE SUPPLY DELIVERIES

Objective Service Supply Deliveries occur before the final delivery at the destination SPLC location. This example calls for four S5 loops. Figure 9.3 illustrates this scenario.

Figure 9.3 Objective Service Supply Deliveries



EXAMPLE:

```
ST
.
S5~1~UL~~~~~~~~SPLC2                    Objective unload
S5~2~UL~~~~~~~~SPLC2                    Objective unload
S5~3~UL~~~~~~~~SPLC2                    Objective unload
S5~4~UL~~~~~~~~SPLC2                    Objective unload
.
HL~100~I                                Line 1 at objective 1
N9~QN~1
HL~100~I                                Line 2 at objective 1
N9~QN~2
HL~100~I                                Line 3 at objective 1
N9~QN~3
HL~100~I                                Line 4 at objective 1
N9~QN~4
.
HL~300~SS
L0~300~4~SP                       Quantity of accessorial service units
L1~~{qualifier}~5000~200.00~~~~DIS  Rate and charge for four DIS deliveries
.
SE
```

SPECIAL CASES

Split Stops

Expressing costs for split pickup and delivery varies between shipments costed using voluntary tenders and Tailored Transportation Contract traffic tenders.

- Voluntary Tenders

Load and unload actions are identified using code SPU.

- Tailored Transportation Contract Traffic Tenders

Load actions are identified using code SPU.
Unload actions are identified using code SDL.

Intransit pickup and delivery

If a line item is picked up at a stop location and delivered at another stop location, the HL~100 describing the line item must contain two N9 segments. The first N9 segment describes the pickup stop sequence number. The second N9 describes the delivery stop sequence number.

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