Department
of
Defense

DoD Transportation Electronic Business (DTEB) Convention

ASC X12 Transaction Set 219 Logistics Service Request (Version 004010) – 3rd Party Logistics Transportation Service Request

VERSION 3

May 2016

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of
Defense

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Section 1.0

INTRODUCTION

This implementation convention (IC) describes the standard or convention that Department of Defense shippers will use to generate requests for transportation services in support of the Defense Freight Transportation Services (DFTS) program. The copyright on the ASC X12 standards is held by the Data Interchange Standards Association on behalf of ASC X12.

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

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

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. It is presented in the standard publishing format prescribed by the Defense Information Systems Agency (DISA).
- Section 4.0, IC Element Matrix, identifies the application data elements trading partners need to exchange. This section can be used to map an existing application database into the transaction set.
- Section 5.0 , when present, contains an example of the EDI transactions.
- Section 6.0, Application Code Lists, when present, identifies the DoD codes that trading partners need to exchange. This section augments the matrix presented in Section 4.0.

What's New In Version 3

Added in Version 3

DM Number	DM Description	Approval Date
1226	In Section 6 for the N722, DE 24, at index [10-22] add the following codes under the Type of Equipment table for Motor and TOFC: 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	5/20/2016

1223	1. In Section 6 for the ITA13, DE 352, at index [6-13] add the following code under the Accessorial / Protective Service for Air Shipments table: Code == X12 Definition == DOD Definition 020 == Address Correction 2. Add the following code under the Accessorial / Protective Service for Motor Shipments table: Code == X12 Definition == DOD Definition EXD == Extra Driver 3. Add the following codes under the Accessorial Service for Rail Shipments table: Code == X12 Definition == DOD Definition 490 == Minimum Air Transportation Charge == Crane Operator at Destination 495 == Miscellaneous - Destination == Crane at Destination 500 == Miscellaneous - Origin == Crane at Origin 505 == Missing Account NBR Charge == Crane Operator at Origin AAM == Additional Material == Protective Material Provided for Blocking and Bracing DPD == Drayage at Port of Debarkation == Drayage at Destination DPE == Drayage at Port of Embarkation == Drayage at Origin DTB == Detention (Labor) == Detention of Vehicles FCS == Furnishing Chassis == Furnishing Chassis for COFC Shipments LDA == Loading Allowance == Carrier to Load LDL == Unloading Allowance == Carrier to Unload LFD == Linehaul From Port of Debarkation == Dedicated Switch Engine Crew at Destination LIE == Liability of Carrier Charge == Liability of Transportation Service Provider LMD == Liner Terms at Port of Debarkation == Dedicated Switch Engine at Destination LME == Liner Terms at Port of Embarkation == Dedicated Switch Engine at Origin LTE == Linehaul to Port of Embarkation == Dedicated Switch Engine Crew at Origin RCC == Reconsignment Charge == Reconsignment/Diversion RDH == Railhead Handling == Technical Assistance for Loading Rail Cars SRG == Storage SRS == Surveying Routes SUP == Supervisor Requested == Inspector Requested for Loading TER == Terminal Handling Charges == Carrier to Unblock, Unbrace, and Untie	5/20/2016

Added in Version 2

DM Number	DM Description	Approval Date
1208	In the N104, DE 67 at index [13-04], add a usage note which reads "If DoDAAC/CAGE is unavailable, then N104 = 'XXXXXX' and the complete clear text name and address of the origin is required in the associated N1 loop.” In the N104, DE 67 at index [27-04], add a usage note which reads "If DoDAAC/CAGE is unavailable, then N104 = 'XXXXXX' and the complete clear text name and address of the ship-to is required in the associated N1 loop.”	11/13/2015

Added in Version 1

DM Number	DM Description	Approval Date
1186	Change the DOD attributes of the NTE segment at index [7] from Mandatory to Conditional. Change the segment condition note that reads: "Use this segment to indicate the rate structure requested under the DFTS contract. Use of this segment is required for all DFTS transportation service requests." to read: "SEGMENT CONDITION: Use this segment to indicate the rate structure requested under the DFTS contract. Use of this segment is required for all DFTS transportation service requests except those transported by rail."	6/29/2015

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 interpreting Transportation Service Request using the *ASC* X12.Transaction Set 219 Logistics Service Request (Version 004010). .

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

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

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

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

X - Segment or data element is not used.

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

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219 Logistics Service Request

Functional Group ID=AB

Introduction:

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

Heading:

	Pos. No.	Seg. ID	Name	Req. Des.	Max.Use	Loop Repeat	Notes and Comments
M	010	ST	Transaction Set Header	M	1		
M	020	B9	Beginning Segment for Logistics Services	M	1		
M	030	B9A	Service Request	M	7		
	040	L11	Business Instructions and Reference Number	O	99		
	050	MS3	Interline Information	O	99		
	060	ITA	Allowance, Charge or Service	O	20		
	070	NTE	Note/Special Instruction	O	10		
			LOOP ID - 1000			99	
	080	N7	Equipment Details	O	1		
Not Used	090	N7A	Accessorial Equipment Details	O	1		
Not Used	100	N7B	Additional Equipment Details	O	1		
Not Used	110	MEA	Measurements	O	1		

Detail:

	Pos. No.	Seg. ID	Name	Req. Des.	Max.Use	Loop Repeat	Notes and Comments
			LOOP ID - 2000			99	
	010	S5	Stop-off Details	O	1		n1
Must Use	020	G62	Date/Time	O	2		
Not Used	030	L11	Business Instructions and Reference Number	O	99		
Not Used	040	ITA	Allowance, Charge or Service	O	20		
			LOOP ID - 2100			1	
Must Use	050	N1	Name	O	1		
	060	N2	Additional Name Information	O	1		
Must Use	070	N3	Address Information	O	2		
Must Use	080	N4	Geographic Location	O	1		
	090	PER	Administrative Communications Contact	O	3		
			LOOP ID - 2200			99	
Not Used	100	G61	Contact	O	1		n2
Not Used	110	L11	Business Instructions and Reference Number	O	10		
Not Used	120	LH6	Hazardous Certification	O	10		
			LOOP ID - 2250			25	
Not Used	130	LH1	Hazardous Identification Information	O	1		
Not Used	140	LH2	Hazardous Classification Information	O	5		
Not Used	150	LH3	Hazardous Material Shipping Name	O	6		

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

Summary:

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

Transaction Set Notes

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

Segment: **ST** **Transaction Set Header**
Position: 010
Loop:
Level: Heading
Usage: Mandatory
Max Use: 1
Purpose: To indicate the start of a transaction set and to assign a control number
Syntax Notes:
Semantic Notes: **1** The transaction set identifier (ST01) is used by the translation routines of the interchange partners to select the appropriate transaction set definition (e.g., 810 selects the Invoice Transaction Set).
Comments:
Business Rules: Variable Name: STST
Notes: [1] ST SEGMENT - 3rd Party Logistics Transportation Service Request Header
Use this implementation convention (IC) for 3rd Party Logistics Transportation Service Request.

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 219 Logistics Service Request [1-01] Logistics Service Request	**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 Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set. The application and structure of the control number must be agreed upon between trading partners. (For example, some applications use all nine digits where the first five might indicate a group control number and the last four represent the sequence of the transaction set within the functional group. Also, the entire nine digit field may simply represent the sequence of the transaction set generated by a trading partner.)	**M AN 4/9**

Segment: **B9** **Beginning Segment for Logistics Services**
Position: 020
Loop:
Level: Heading
Usage: Mandatory
Max Use: 1
Purpose: To indicate the beginning of a logistics service transaction set
Syntax Notes:
Semantic Notes: **1** B901 is the logistics identification number.
Comments:
Notes: [2] B9 SEGMENT - Record Number/Purpose/Shipment Method

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
M	**B901**	**127**	**Reference Identification** Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier [2-01] Offer Record Number Enter a unique logistics identification number assigned by the originator of this transaction set.	**M AN 1/30**
M	**B902**	**353**	**Transaction Set Purpose Code** Code identifying purpose of transaction set [2-02] Transaction Set Purpose Code 00 Original [2-02] Original Use '00' to denote Original Offer 01 Cancellation [2-02] Cancellation 04 Change [2-02] Change 14 Advance Notification [2-02] Advance Notification Use '14' to denote Pre-Offer Notice (no X12 220 response required)	**M ID 2/2**
>>	**B903**	**146**	**Shipment Method of Payment** Code identifying payment terms for transportation charges [2-03] Shipment Method of Payment 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	**O ID 2/2**

Segment: **B9A** **Service Request**
Position: 030
Loop:
Level: Heading
Usage: Mandatory
Max Use: 7
Purpose: To identify the specified logistics services requested
Syntax Notes:
Semantic Notes:
Comments:
Notes: [3] B9A SEGMENT - Service Request Code

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
M	**B9A01**	**1644**	**Service Request Code** Code indicating the type of logistics service requested [3-01] Service Request Code RE Rate Estimate [3-01] Rate Estimate Use 'RE' to denote this is a Defense Freight Transportation Services (DFTS) shipment	**M ID 2/2**

Segment: **L11** **Business Instructions and Reference Number**
Position: 040
Loop:
Level: Heading
Usage: Optional
Max Use: 99
Purpose: To specify instructions in this business relationship or a reference number
Syntax Notes: **1** At least one of L1101 or L1103 is required.
2 If either L1101 or L1102 is present, then the other is required.
Semantic Notes:
Comments:
Notes: [4] L11 SEGMENT - Bill of Lading Cross Reference
SEGMENT CONDITION: Used to pass Bill of Lading cross reference information only.

Data Element Summary

	Ref. Des.	Data Element	Name		Attributes	
>>	**L1101**	**127**	**Reference Identification**		**X**	**AN 1/30**
			Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier			
			[4-01] Reference Identification Associated Bill of Lading number			
>>	**L1102**	**128**	**Reference Identification Qualifier**		**X**	**ID 2/3**
			Code qualifying the Reference Identification			
			[4-02] Reference Identification Qualifier			
			BM	Bill of Lading Number		
				[4-02] Bill of Lading Number		
X	**L1103**	**352**	**Description**		**X**	**AN 1/80**

Segment: **MS3** **Interline Information**
Position: 050
Loop:
Level: Heading
Usage: Optional
Max Use: 99
Purpose: To identify the interline carrier and relevant data
Syntax Notes: **1** If MS305 is present, then MS303 is required.
Semantic Notes: **1** MS301 is the Standard Carrier Alpha Code (SCAC) of the interline carrier.
2 MS303 is the city where the interline was performed.
Comments:
Notes: [5] MS3 SEGMENT - INTERLINE INFORMATION
SEGMENT CONDITION: Use only when requesting transportation for a scheduled/dedicated truck move. Not used otherwise.

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
M	**MS301**	**140**	**Standard Carrier Alpha Code**	**M**	**ID 2/4**
			Standard Carrier Alpha Code		
			[5-01] Standard Carrier Alpha Code Insert the SCAC of the carrier with whom the 3rd Party Logistics Coordinator contracted for the scheduled/dedicated truck route. SOURCE: Directory of Standard Multi-Model Carriers and Tariff Agents Codes (SCAC-STAC), NMF 101 Series available from National Motor Freight Association, Inc.		
M	**MS302**	**133**	**Routing Sequence Code**	**M**	**ID 1/2**
			Code describing the relationship of a carrier to a specific shipment movement		
			[5-02] Routing Sequence Code		
			B Origin/Delivery Carrier (Any Mode)		
			[5-02] Origin/Delivery Carrier (Any Mode)		
X	**MS303**	**19**	**City Name**	**X**	**AN 2/30**
>>	**MS304**	**91**	**Transportation Method/Type Code**	**O**	**ID 1/2**
			Code specifying the method or type of transportation for the shipment		
			[5-04] Transportation Method/Type Code		
			L Contract Carrier		
			[5-04] Contract Carrier Use 'L' to denote Scheduled/Dedicated Trucks		
X	**MS305**	**156**	**State or Province Code**	**O**	**ID 2/2**

Segment: **ITA** **Allowance, Charge or Service**
Position: 060
Loop:
Level: Heading
Usage: Optional
Max Use: 20
Purpose: To specify allowances, charges, or services
Syntax Notes:
1 If ITA02 is present, then at least one of ITA03 ITA13 or ITA14 is required.
2 If ITA08 is present, then ITA09 is required.
3 If either ITA10 or ITA11 is present, then the other is required.
4 If ITA15 is present, then ITA02 is required.
5 If ITA17 is present, then ITA12 is required.
Semantic Notes:
1 ITA09 is the allowance or charge percent.
2 ITA10 is the quantity basis when the allowance or charge quantity is different from the purchase order or invoice quantity.
3 ITA12 is the quantity of free goods.
Comments:
1 If ITA01 equals "A" - allowance or "C" - charge, then at least one of ITA06, ITA07, or ITA08 must be present.
2 ITA02 identifies the source of the code value in ITA03 or ITA15.
3 If ITA07 is present with either ITA06 or ITA08, then ITA07 takes precedence.
4 ITA13 is used to clarify the allowance, charge, or service.
5 ITA15 specifies the individual code list of the agency specified in ITA02.
6 ITA16 describes the relationship of ITA06, ITA07 or ITA09 to an associated segment.
Notes: [6] ITA SEGMENT - Accessorial/Special Handling Request
SEGMENT CONDITION: Use when accessorial services or special handling is requested. Not used for pre-offer notices.

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
M	**ITA01**	**248**	**Allowance or Charge Indicator**	**M**	**ID 1/1**
			Code which indicates an allowance or charge for the service specified		
			[6-01] Accessorial/Special Handling Request Code		
			S Service		
			[6-01] Service		
X	**ITA02**	**559**	**Agency Qualifier Code**	**X**	**ID 2/2**
			Refer to 004010 Data Element Dictionary for acceptable code values.		
X	**ITA03**	**560**	**Special Services Code**	**X**	**ID 2/10**
			Refer to 004010 Data Element Dictionary for acceptable code values.		
M	**ITA04**	**331**	**Allowance or Charge Method of Handling Code**	**M**	**ID 2/2**
			Code indicating method of handling for an allowance or charge		
			[6-04] Allowance or Charge Method of Handling Code Use code value 'ZZ' to satisfy X12 syntax requirements. CHANGE NOTE: Data element added to satisfy X12 requirements per DM 732.		
			ZZ Mutually Defined		
			[6-04] Mutually Defined		
X	**ITA05**	**341**	**Allowance or Charge Number**	**O**	**AN 1/16**
X	**ITA06**	**359**	**Allowance or Charge Rate**	**O**	**R 1/15**
X	**ITA07**	**360**	**Allowance or Charge Total Amount**	**O**	**N2 1/15**
X	**ITA08**	**378**	**Allowance/Charge Percent Qualifier**	**O**	**ID 1/1**
			Refer to 004010 Data Element Dictionary for acceptable code values.		
X	**ITA09**	**332**	**Percent**	**X**	**R 1/6**
X	**ITA10**	**380**	**Quantity**	**X**	**R 1/15**

X	**ITA11**	**355**	**Unit or Basis for Measurement Code**	**X**	**ID 2/2**
			Refer to 004010 Data Element Dictionary for acceptable code values.		
X	**ITA12**	**380**	**Quantity**	**X**	**R 1/15**
>>	**ITA13**	**352**	**Description**	**X**	**AN 1/80**
			A free-form description to clarify the related data elements and their content		

[6-13] Accessorial/Special Handling Request Description
Insert the projected accessorial services that may be required for the shipment unit.

020	New Code Added by IC
	[6-13] Address Correction
045	New Code Added by IC
	[6-13] Advancing Charges
405	New Code Added by IC
	[6-13] (1) Fuel Surcharge (for Tailored Transportation Contract Traffic Shipments and Air Shipments) (2) Fuel Adjustment (for Motor Shipments)
490	New Code Added by IC
	[6-13] Crane Operator at Destination
495	New Code Added by IC
	[6-13] Crane at Destination
500	New Code Added by IC
	[6-13] Crane at Origin
505	New Code Added by IC
	[6-13] Crane Operator at Origin
520	New Code Added by IC
	[6-13] (1) Overdimensional (Air Shipments), (2) Overdimension Permit (Motor Shipments)
675	New Code Added by IC
	[6-13] (1) Signature and Tally Record Service (for Tailored Transportation Contract Traffic Shipments and Air Shipments), (2) Signature Tally (for Motor Shipments)
AAM	New Code Added by IC
	[6-13] Protective Material Provided for Blocking and Bracing
AAS	New Code Added by IC
	[6-13] (1) Attendants Accompanying (for Rail Shipments), (2) Attendants for Rail Shipments (for Tailored Transportation Contract Traffic Shipments)
AFN	New Code Added by IC
	[6-13] [Migration Code] Air Craft Furnished and Not Used
AIR	New Code Added by IC
	[6-13] [Migration Code] Air
ARG	New Code Added by IC
	[6-13] Rail Armed Guard Service
BLK	New Code Added by IC
	[6-13] Blocking and Bracing Charge
BUA	New Code Added by IC
	[6-13] Bunker Adjustment
CCS	New Code Added by IC
	[6-13] Carrier Caboose Charge
CFC	New Code Added by IC
	[6-13] Customs Fees - Container Level

CGC	New Code Added by IC
	[6-13] Carrier Guard Cars
CGR	New Code Added by IC
	[6-13] Government Caboose/Guard Cars Returned
CHN	New Code Added by IC
	[6-13] Chains and Binders
CIS	New Code Added by IC
	[6-13] (1) DoD Constant Surveillance Service (for Tailored Transportation Contract Traffic Shipments and for Air Shipments), (2) Constant Surveillance (for Motor Shipments)
CSP	New Code Added by IC
	[6-13] Government Caboose Charge
CUF	New Code Added by IC
	[6-13] Currency Adjustment Factor
DDN	New Code Added by IC
	[6-13] (1) Dual Driver Protective Service with National Agency Check (for Air Shipments), (2) Dual Driver with National Agency Check (for Motor Shipments)
DDP	New Code Added by IC
	[6-13] (1) Dual Driver Protective Service (for Air Shipments), (2) Dual Driver (for Motor Shipments)
DEL	New Code Added by IC
	[6-13] Delivery Charge
DEM	New Code Added by IC
	[6-13] Demurrage
DEP	New Code Added by IC
	[6-13] (1) Detention: Vehicles with Power Units (for Tailored Transportation Contract Traffic Shipments), (2) Detention of Conveying Equipment and the Power Unit (for Motor Shipments)
DET	New Code Added by IC
	[6-13] (1) Detention: Vehicles Without Power Units (for Tailored Transportation Contract Traffic Shipments), (2) Detention of Conveying Equipment Excluding the Power Unit (for Motor Shipments)
DPD	New Code Added by IC
	[6-13] Drayage at Destination
DPE	New Code Added by IC
	[6-13] Drayage at Origin
DTB	New Code Added by IC
	[6-13] Detention of Vehicles
ECR	New Code Added by IC
	[6-13] Escorts/Couriers
ECS	New Code Added by IC
	[6-13] Empty Cars Ordered but Not Used
ELS	New Code Added by IC
	[6-13] Extra Lights
EMT	New Code Added by IC
	[6-13] Empty Movement
ERS	New Code Added by IC
	[6-13] Empty Return
EVC	New Code Added by IC
	[6-13] [Migration Code] Excess Valuation per DM 285

EXC	New Code Added by IC
	[6-13] (1) Exclusive Use (for Rail Shipments), (2) Exclusive User of Vehicle (for Tailored Transportation Contract Traffic Shipments), (3) Exclusive Use Charge (for Motor Shipments)
EXD	New Code Added by IC
	[6-13] Extra Driver
EXP	New Code Added by IC
	[6-13] Expedited Service Charge
FCS	New Code Added by IC
	[6-13] Furnishing Chassis for COFC Shipments
GSP	New Code Added by IC
	[6-13] Government Guard Car Charge
GSS	New Code Added by IC
	[6-13] Greater Security Service
HAZ	New Code Added by IC
	[6-13] [Migration Code] Hazardous Material
HHB	New Code Added by IC
	[6-13] [Migration Code] Handling freight not adjacent to vehicle
HOL	New Code Added by IC
	[6-13] Sunday or Holiday Pick-up or Delivery
HRS	New Code Added by IC
	[6-13] Heater or Refrigeration
IDC	New Code Added by IC
	[6-13] Idler Car Charge
IMP	New Code Added by IC
	[6-13] Impactographs
IMS	New Code Added by IC
	[6-13] Intermodal Shipment
LDA	New Code Added by IC
	[6-13] Carrier to Load
LDL	New Code Added by IC
	[6-13] Carrier to Unload
LFD	New Code Added by IC
	[6-13] Dedicated Switch Engine Crew at Destination
LIE	New Code Added by IC
	[6-13] Cargo Liability of Carrier (Tailored Transportation Contract Traffic Shipments), (2) Liability of Carrier Charge (for Motor Shipments)
LMD	New Code Added by IC
	[6-13] Dedicated Switch Engine at Destination
LME	New Code Added by IC
	[6-13] Dedicated Switch Engine at Origin
LTE	New Code Added by IC
	[6-13] Dedicated Switch Engine Crew at Origin
MEN	New Code Added by IC
	[6-13] Escort Service with Overnight Subsistence
MES	New Code Added by IC
	[6-13] Escort (standard)
MET	New Code Added by IC
	[6-13] Escort (telephones)

MNS	New Code Added by IC
	[6-13] Motor Surveillance (12-hour calls)
MVS	New Code Added by IC
	[6-13] Special Motor Surveillance Charge
PER	New Code Added by IC
	[6-13] Overweight Permit
PRL	New Code Added by IC
	[6-13] Prelodging
PSS	New Code Added by IC
	[6-13] (1) Protective Service Security (for Air Shipments), (2) Protective Security (without armed drivers) (for Motor Shipments)
PTS	New Code Added by IC
	[6-13] (1) Protective Tarping for Security Purposes (for Tailored Transportation Contract Traffic Shipments), (2) Protective Tarping (for Motor Shipments)
PUC	New Code Added by IC
	[6-13] Urgent Pick-Up Service
PUD	New Code Added by IC
	[6-13] (1) Pick-up and Delivery (for Rail Shipments), (2) Pick-up/Delivery o/t Normal Bus hours (for Tailored Transportation Contract Traffic Shipments), (3) Pickup or Delivery Before or After Normal Business Hours (for Air Shipments)
PVB	New Code Added by IC
	[6-13] Bonded Privately Owned Vehicle Charge
RCC	New Code Added by IC
	[6-13] (1) Reconsignment/Diversion (for Tailored Transportation Contract Traffic Shipments and Motor Shipments) , (2) Reconsignment Charge (for Air Shipments)
RCL	New Code Added by IC
	[6-13] Redelivery
RDH	New Code Added by IC
	[6-13] Technical Assistance for Loading Rail Cars
RIS	New Code Added by IC
	[6-13] [Migration Code] Rail Inspection Service
RLS	New Code Added by IC
	[6-13] Relocation of Vehicle
RMC	New Code Added by IC
	[6-13] Return of Empty Container Charge
RMP	New Code Added by IC
	[6-13] Return Movement of Pallet Charge
RSS	New Code Added by IC
	[6-13] Restricted Speeds
RSV	New Code Added by IC
	[6-13] Reservations
SAT	New Code Added by IC
	[6-13] (1) Saturday Pick-up Charge (for Rail Shipments), (2) Saturday Pick-up or Delivery Charge (for Tailored Transportation Contract Traffic Shipments and Motor Shipments), (3) Saturday Pickup or Delivery (for Air Shipments)
SDL	New Code Added by IC

				[6-13] Split Delivery		
			SEV	New Code Added by IC		
				[6-13] (1) Security Escort Vehicle Vehicle (for Air Shipments), Security Escort Service (for Motor Shipments)		
			SFT	New Code Added by IC		
				[6-13] Special Train Service		
			SNS	New Code Added by IC		
				[6-13] Satellite Motor Surveillance		
			SOC	New Code Added by IC		
				[6-13] Stop-off Charge		
			SPU	New Code Added by IC		
				[6-13] Split Pickup		
			SRG	New Code Added by IC		
				[6-13] Storage		
			SRS	New Code Added by IC		
				[6-13] Surveying Routes		
			SSR	New Code Added by IC		
				[6-13] [Migration Code] Surveying Routes		
			SUP	New Code Added by IC		
				[6-13] Inspector Requested for Loading		
			SVS	New Code Added by IC		
				[6-13] Storage of Vehicles		
			TER	New Code Added by IC		
				[6-13] Carrier to Unblock, Unbrace, and Untie		
			TMV	New Code Added by IC		
				[6-13] Tendering of Multiple Vehicles		
			TOW	New Code Added by IC		
				[6-13] [Migration Code] Motor Towaway Service		
			TPA	New Code Added by IC		
				[6-13] [Migration Code] Carrier Equipment Pool Charge		
			TPS	New Code Added by IC		
				[6-13] Third-Party Service		
			URC	New Code Added by IC		
				[6-13] (1) Loading/Unloading (for Rail Shipments and Motor Shipments), (2) Loading/Unloading by Motor Carriers (for Tailored Transportation Contract Traffic Shipments)		
			VFN	New Code Added by IC		
				[6-13] Vehicles Furnished But Not Used		
			VIS	New Code Added by IC		
				[6-13] Vehicles Inoperable		
			VTS	New Code Added by IC		
				[6-13] Vehicles in Truckaway		
			WTG	New Code Added by IC		
				[6-13] [Migration Code] Waiting Time		
			WTV	New Code Added by IC		
				[6-13] Weight Verification Charge		
X	**ITA14**	**150**	**Special Charge or Allowance Code**		**X**	**ID 3/3**
			Refer to 004010 Data Element Dictionary for acceptable code values.			
X	**ITA15**	**822**	**Source Subqualifier**		**O**	**AN 1/15**

X	**ITA16**	**662**	**Relationship Code** Refer to 004010 Data Element Dictionary for acceptable code values.	**O**	**ID 1/1**
X	**ITA17**	**355**	**Unit or Basis for Measurement Code** Refer to 004010 Data Element Dictionary for acceptable code values.	**O**	**ID 2/2**

Segment: **NTE** **Note/Special Instruction**
Position: 070
Loop:
Level: Heading
Usage: Optional
Max Use: 10
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: [7] NTE SEGMENT - Rate Structure Tier Requested
SEGMENT CONDITION: Use this segment to indicate the rate structure requested under the DFTS contract. Use of this segment is required for all DFTS transportation service requests except those transported by rail.
[8] NTE SEGMENT - Number of Vehicles Requested
Not used for pre-offer notices. If requesting more than 99 vehicles, use a separate 219.
SEGMENT CONDITION: Use when requesting truckload moves and the shipper knows the number trucks required for the move.
[9] NTE SEGMENT - Note/Special Instruction
SEGMENT CONDITION: Use this segment to report additional free-form special instructions/requests to the 3rd Party Logistics Coordinator, such as more detailed information on pickup location, appointment requirements, and other ancillary detail not provided elsewhere in the transaction. If needed, this special instructions segment may be used up to eight (8) times.

Data Element Summary

	Ref. Des.	Data Element	Name		Attributes
>>	**NTE01**	**363**	**Note Reference Code**		**O ID 3/3**
			Code identifying the functional area or purpose for which the note applies		
			[7-01] Rate Structure Tier Qualifier [8-01] Number of Vehicles Requested Qualifier [9-01] Note Reference Code		
			ADD	Additional Information	
				[9-01] Additional Information	
			EED	Equipment Description	
				[8-01] Equipment Description Use 'EED' to denote Number of Vehicles Requested	
			TRA	Transportation	
				[7-01] Transportation Use 'TRA' to denote DFTS Rate Structure Tier	

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

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

[7-02] Note/Special Instruction
Use this element to indicate the DFTS Rate Structure Tier requested by the DFTS shipper
[8-02] Number of Vehicles Requested
Enter numeric value of the number of vehicles being requested. Not used for pre-offer notices.
ELEMENT CONDITION: Not used for pre-offer notices.
[9-02] Note/Special Instruction
Enter free-form text for additional/special instructions to the 3rd Party Logistics coordinator.

4	New Code Added by IC
	[7-02] 4/8 Rate Structure Tier
12	New Code Added by IC
	[7-02] 12/24 Rate Structure Tier
24	New Code Added by IC
	[7-02] 24/48 Rate Structure Tier

Segment: **N7** **Equipment Details**
Position: 080
Loop: 1000 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: [10] N7 SEGMENT - Equipment Used/Requested
SEGMENT CONDITION: Use this segment when 1) directly loading a pooled trailer at the shipper's location, 2) if requesting special equipment (low-boy, air cushioned, flatbed, etc.) from the coordinator, or 3) if offering a government owned or leased railcar to the coordinator. Not used for pre-offer notices.

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
>>	**N701**	**206**	**Equipment Initial** Prefix or alphabetic part of an equipment unit's identifying number [10-01] Equipment Initials If directly loading a pooled trailer, enter the SCAC of the carrier that owns the equipment. Otherwise, enter value '0'. 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) [10-02] Equipment Number If directly loading a pooled trailer, enter the serial number of the equipment. Otherwise, enter value '0' to satisfy X12 syntax requirements.	**M**	**AN 1/10**
	N703	**81**	**Weight** Numeric value of weight [10-03] Equipment Weight Capacity 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** Code defining the type of weight [10-04] Weight Qualifier ELEMENT CONDITION: Required if N703 is used. N Actual Net Weight [10-04] Actual Net Weight	**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**
	N708	**183**	**Volume** Value of volumetric measure [10-08] Equipment Cube	**X**	**R 1/8**

	N709	**184**	**Volume Unit Qualifier**	**X**	**ID 1/1**
			Code identifying the volume unit		
			[10-09] Equipment Cube Qualifier ELEMENT CONDITION: Required if N708 is used.		
			E Cubic Feet		
			[10-09] 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		
			[10-13] Temperature Control Use to specify temperature setting for reefer shipments. If necessary, indicate minimum and maximum temperature (e.g., -10+30.). Report all temperatures in Fahrenheit.		
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)		
			[10-15] Equipment Length Report in FFFII format.		
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**	**O**	**ID 4/4**
			Code identifying equipment type		
			[10-22] Equipment Type Enter code to identify the equipment type. Use DoD equipment codes. Left justify the code and fill to the right with the lower case 'x' until a length of four characters is attained.		
			8X New Code Added by IC		
			[10-22] Pipeline		
			A10 New Code Added by IC		
			[10-22] 410 Dromedary, 102" L x 75" H x 92" W, 410 cubic feet		
			A11 New Code Added by IC		
			[10-22] Van, air ride, 45 ft or 48 ft, padded, equipped with electric hydraulic powered crane loading unloading system or hydraulic powered		
			A16 New Code Added by IC		
			[10-22] Special Dromedary with MRO		
			A20 New Code Added by IC		
			[10-22] Motor vehicle transport trailer		

A30	New Code Added by IC
	[10-22] Removable gooseneck
A40	New Code Added by IC
	[10-22] Flat bed trailer, hot shot, 40 ft and over
A5	New Code Added by IC
	[10-22] Tractor, air ride
A50	New Code Added by IC
	[10-22] Van, closed, padded/logistics type, freight only, w/air ride suspension, 40 ft and over
A6	New Code Added by IC
	[10-22] Tractor, other than air ride
A7	New Code Added by IC
	[10-22] Flat bed, 30 feet and less, hooked in tandem as one unit
A8	New Code Added by IC
	[10-22] Van, air ride, w/temperature and humidity control
A9	New Code Added by IC
	[10-22] Van, closed, padded, w/air ride suspension 2nd & 3rd proviso only
AA1	New Code Added by IC
	[10-22] Van, closed air ride, 30 ft and less
AA2	New Code Added by IC
	[10-22] Van, closed air ride, 31-40 ft
AA3	New Code Added by IC
	[10-22] Van, closed air ride, over 40 ft
AB0	New Code Added by IC
	[10-22] Lowboy, level deck, 10 axles and over
AB2	New Code Added by IC
	[10-22] Lowboy, level deck, 2 axles
AB3	New Code Added by IC
	[10-22] Lowboy, level deck, 3 axles
AB4	New Code Added by IC
	[10-22] Lowboy, level deck, 4 axles
AB5	New Code Added by IC
	[10-22] Lowboy, level deck, 5 axles
AB6	New Code Added by IC
	[10-22] Lowboy, double drop, air ride, w/outriggers, 3 axles
AB7	New Code Added by IC
	[10-22] Lowboy, level deck, 7 axles
AB9	New Code Added by IC
	[10-22] Lowboy, level deck, 9 axles
AC2	New Code Added by IC
	[10-22] Expandable low bed trailer, 2 axles
AC3	New Code Added by IC
	[10-22] Expandable low bed trailer, 3 axles
AC4	New Code Added by IC
	[10-22] Expandable low bed trailer, 4 axles
AD	New Code Added by IC
	[10-22] Regular Dromedary
AD6	New Code Added by IC
	[10-22] Dromedary with Mechanical Restraining Device

	(MRD)
AE0	New Code Added by IC
	[10-22] Lowboy, double drop, 10 axles and over
AE2	New Code Added by IC
	[10-22] Lowboy, double drop, 2 axles
AE3	New Code Added by IC
	[10-22] Lowboy, double drop, 3 axles
AE4	New Code Added by IC
	[10-22] Lowboy, double drop, 4 axles
AE5	New Code Added by IC
	[10-22] Lowboy, double drop, 5 axles
AE6	New Code Added by IC
	[10-22] Lowboy, double drop, w/outriggers, 3 axles
AE7	New Code Added by IC
	[10-22] Lowboy, double drop, 7 axles
AE9	New Code Added by IC
	[10-22] Lowboy, double drop, 9 axles
AF1	New Code Added by IC
	[10-22] Flat bed, 30 ft and less
AF2	New Code Added by IC
	[10-22] Flat bed, 31-40 ft
AF3	New Code Added by IC
	[10-22] Flat bed, over 40 ft
AF4	New Code Added by IC
	[10-22] Flat bed w/Conestoga trailers 30 ft and less
AF5	New Code Added by IC
	[10-22] Flat bed w/Conestoga trailer 31-40 ft
AF6	New Code Added by IC
	[10-22] Flat bed w/Conestoga trailers over 40 ft
AG1	New Code Added by IC
	[10-22] Van, open, 30 ft and less
AG2	New Code Added by IC
	[10-22] Van, open, 31-40 ft
AG3	New Code Added by IC
	[10-22] Van, open, over 40 ft
AG4	New Code Added by IC
	[10-22] Tautliner Van w/Tarps, 30' or less
AG5	New Code Added by IC
	[10-22] Tautliner Van w/Tarps, 31' to 40'
AG6	New Code Added by IC
	[10-22] Tautliner Van w/Tarps, over 40'
AH2	New Code Added by IC
	[10-22] Drop frame trailer, drop/step deck, 2 axles
AH3	New Code Added by IC
	[10-22] Drop frame trailer, drop/step deck, 3 axles
AI2	New Code Added by IC
	[10-22] Drop frame trailer, drop/step deck, air ride, 2 axles
AI3	New Code Added by IC
	[10-22] Drop frame trailer, drop/step deck, air ride, 3 axles
AJ0	New Code Added by IC

	[10-22] Lowboy, level deck, air ride, 10 axles and over
AJ2	New Code Added by IC
	[10-22] Lowboy, level deck, air ride, 2 axles
AJ3	New Code Added by IC
	[10-22] Lowboy, level deck, air ride, 3 axles
AJ4	New Code Added by IC
	[10-22] Lowboy, level deck, air ride, 4 axles
AJ5	New Code Added by IC
	[10-22] Lowboy, level deck, air ride, 5 axles
AJ6	New Code Added by IC
	[10-22] Lowboy, level deck, air ride, w/outriggers, 3 axles
AJ7	New Code Added by IC
	[10-22] Lowboy, level deck, air ride, 7 axles
AJ9	New Code Added by IC
	[10-22] Lowboy, level deck, air ride, 9 axles
AK	New Code Added by IC
	[10-22] Van, refrigerated, perishable food
AL2	New Code Added by IC
	[10-22] Extendable flat bed trailer, 2 axles
AL3	New Code Added by IC
	[10-22] Extendable flat bed trailer, 3 axles
AL4	New Code Added by IC
	[10-22] Extendable flat bed trailer, 4 axles
AM0	New Code Added by IC
	[10-22] Lowboy, double drop, air ride, 10 axles and over
AM2	New Code Added by IC
	[10-22] Lowboy, double drop, air ride, 2 axles
AM3	New Code Added by IC
	[10-22] Lowboy, double drop, air ride, 3 axles
AM4	New Code Added by IC
	[10-22] Lowboy, double drop, air ride, 4 axles
AM5	New Code Added by IC
	[10-22] Lowboy, double drop, air ride, 5 axles
AM6	New Code Added by IC
	[10-22] Lowboy, double drop, air ride, w/outriggers, 3 axles
AM7	New Code Added by IC
	[10-22] Lowboy, double drop, air ride, 7 axles
AM9	New Code Added by IC
	[10-22] Lowboy, double drop, air ride, 9 axles
AN	New Code Added by IC
	[10-22] Adjustable tilt bed trailer
AO	New Code Added by IC
	[10-22] Driveaway/Truckaway
AO1	New Code Added by IC
	[10-22] Straight truck, enclosed van, air ride, 12 ft, 5,000 lb, maximum cargo capacity
AO2	New Code Added by IC
	[10-22] Straight truck, enclosed van, air ride, 20 ft, 13,000 lb, maximum cargo capacity

AO3	New Code Added by IC
	[10-22] Straight truck, enclosed van, air ride, 12 ft, 5,000 lb, maximum cargo capacity
AO4	New Code Added by IC
	[10-22] Straight truck, enclosed van, air ride, 20 ft, 13,000 lb, maximum cargo capacity
AO5	New Code Added by IC
	[10-22] Straight truck, enclosed van, 20 ft, 13,000 lb, maximum cargo capacity, padded/logistics type, w/ air ride suspension
AO6	New Code Added by IC
	[10-22] Pickup truck, with cap, 18 ft. long, 500 lbs maximum cargo capacity
AO7	New Code Added by IC
	[10-22] Econo van, 17 ft long, 2,000 lbs maximum cargo capacity
AO8	New Code Added by IC
	[10-22] Dump trailer, 28 ft long, 2 axle, hydraulic powered lift
AP	New Code Added by IC
	[10-22] Aft steering unit
AR	New Code Added by IC
	[10-22] Van, refrigerated, other
AS	New Code Added by IC
	[10-22] Livestock transporter
AT1	New Code Added by IC
	[10-22] Tank, 5001-8000 gallons
AT2	New Code Added by IC
	[10-22] Tank, over 8000 gallons
AU	New Code Added by IC
	[10-22] Container, shipper owned, environmental, temperature and humidity controlled
AV1	New Code Added by IC
	[10-22] Van, closed, 30 ft and less
AV2	New Code Added by IC
	[10-22] Van, closed, 31-40 ft
AV3	New Code Added by IC
	[10-22] Van, closed, over 40 ft
AV4	New Code Added by IC
	[10-22] Van, closed, Rollerbed, 40 ft, fixed rollers
AV5	New Code Added by IC
	[10-22] Van, closed, Rollerbed, 40 ft, retractable rollers
AV6	New Code Added by IC
	[10-22] Van, closed, Rollerbed, 45 ft and over, fixed rollers
AV7	New Code Added by IC
	[10-22] Van, closed, Rollerbed, 45 ft and over, retractable rollers
AV8	New Code Added by IC
	[10-22] Van, closed, 45 to 48 ft, 12' 4" high
AX	New Code Added by IC
	[10-22] Flat bed, all lengths (twist lock)

AY1	New Code Added by IC
	[10-22] Van, closed, 30 ft and less, double type single unit
AY2	New Code Added by IC
	[10-22] Van, closed, 30 ft and less, hooked in tandem as one unit
AZ1	New Code Added by IC
	[10-22] Flat bed, air ride, 30 ft and less
AZ2	New Code Added by IC
	[10-22] Flat bed, air ride, 31-40 ft
AZ3	New Code Added by IC
	[10-22] Flat bed, air ride, over 40 ft
EE	New Code Added by IC
	[10-22] Bus
KA	New Code Added by IC
	[10-22] Box, automobile
KB1	New Code Added by IC
	[10-22] Flat, bilevel, not enclosed
KB2	New Code Added by IC
	[10-22] Flat, bilevel, enclosed
KC	New Code Added by IC
	[10-22] Box, nuclear waste, DODX w/racks permanently affixed
KD	New Code Added by IC
	[10-22] Gondola, drop ends
KE	New Code Added by IC
	[10-22] Box, end door
KF1	New Code Added by IC
	[10-22] Flat, any other type, not over 70'
KF2	New Code Added by IC
	[10-22] Flat, any other type, over 70' but not over 90'
KG1	New Code Added by IC
	[10-22] Gondola, any other type, 52' hi capacity
KG2	New Code Added by IC
	[10-22] Gondola, any other type, 65' hi capacity
KH1	New Code Added by IC
	[10-22] Hopper open-top, 80 tons and less
KH2	New Code Added by IC
	[10-22] Hopper open-top, 100 tons, 2000 cubic feet
KH3	New Code Added by IC
	[10-22] Hopper, closed-top, 70 tons, 2000 cubic feet
KH4	New Code Added by IC
	[10-22] Hopper, closed top, 100 tons, 2929 cubic feet
KH5	New Code Added by IC
	[10-22] Hopper, closed-top, 100 tons, 4000 cubic feet
KH6	New Code Added by IC
	[10-22] Hopper, closed-top, 100 tons, 4600 cubic feet
KK1	New Code Added by IC
	[10-22] Refrigerator, perishable foods, not over 53' mechanical
KK2	New Code Added by IC
	[10-22] Refrigerator, perishable foods, over 53', but not over 61 mechanical

KL1	New Code Added by IC
	[10-22] Flat, trilevel, not enclosed
KL2	New Code Added by IC
	[10-22] Flat, trilevel, enclosed
KO1	New Code Added by IC
	[10-22] Box, any other type, not over 52' 6"
KO2	New Code Added by IC
	[10-22] Box, any other type, over 52' 6", but not over 60' 9"
KO3	New Code Added by IC
	[10-22] Box, any other type, over 60' 9"
KP	New Code Added by IC
	[10-22] Box, damage prevention type
KR1	New Code Added by IC
	[10-22] Refrigerator, any other type, not over 53' mechanical
KR2	New Code Added by IC
	[10-22] Refrigerator, any other type, over 53', but not over 65' mechanical
KS	New Code Added by IC
	[10-22] Stock
KT1	New Code Added by IC
	[10-22] Tank, 10,000 gallons
KT2	New Code Added by IC
	[10-22] Tank, 20,000 gallons
KT3	New Code Added by IC
	[10-22] Tank, 30,000 gallons
KU	New Code Added by IC
	[10-22] Caboose, DODX armed guard
KW1	New Code Added by IC
	[10-22] TOFC car
KW2	New Code Added by IC
	[10-22] COFC car
KX	New Code Added by IC
	[10-22] Box, missile, DODX w/refrigeration
KY	New Code Added by IC
	[10-22] Flat, heavy duty
KZ1	New Code Added by IC
	[10-22] Flat, DODX, not over 60'
KZ2	New Code Added by IC
	[10-22] Flat, DODX, over 60'
KZ3	New Code Added by IC
	[10-22] Locomotive under own power, on own wheels
KZ4	New Code Added by IC
	[10-22] Locomotive not under own power, on own wheels
KZ5	New Code Added by IC
	[10-22] Locomotive not under own power, not on own wheels
MF	New Code Added by IC
	[10-22] Freight Forwarder (Surface)
QA1	New Code Added by IC
	[10-22] Non milvan, 20 feet and less

			QA2	New Code Added by IC	
				[10-22] Non milvan, 24 feet	
			QA3	New Code Added by IC	
				[10-22] Non milvan, 27 feet	
			QA4	New Code Added by IC	
				[10-22] Non milvan, 35 feet	
			QA5	New Code Added by IC	
				[10-22] Non milvan, 40 feet	
			QA6	New Code Added by IC	
				[10-22] Non milvan, 45 feet and over	
			QM	New Code Added by IC	
				[10-22] MILVAN	
			QQ	New Code Added by IC	
				[10-22] Freight (Other than Freight Forwarder)	
			QU	New Code Added by IC	
				[10-22] Taxi	
			SS	New Code Added by IC	
				[10-22] Charter	
			TT	New Code Added by IC	
				[10-22] Freight Forwarder	
			WA	New Code Added by IC	
				[10-22] Steamship	
			WE	New Code Added by IC	
				[10-22] Covered barge	
			WG	New Code Added by IC	
				[10-22] Cylinder tank barge	
			WI	New Code Added by IC	
				[10-22] Flush deck oil barge	
			WK	New Code Added by IC	
				[10-22] Liquid covered barge	
			WM	New Code Added by IC	
				[10-22] Open barge	
			WP	New Code Added by IC	
				[10-22] Special auto barge	
X	**N723**	**140**	**Standard Carrier Alpha Code**	**O**	**ID 2/4**
X	**N724**	**301**	**Car Type Code**	**O**	**ID 1/4**

Segment: **S5** **Stop-off Details**
Position: 010
Loop: 2000 Optional
Level: Detail
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:
[11] S5 SEGMENT - Pick-up Location
LOOP CONDITION: Mandatory for EDI 219A transactions that are an original, change, or pre-offer (B902='00', '04', or '14' respectively). The S5 loop is not required for cancellations of the entire 219A (B902='01'). This S5 loop describes shipment pickup information and pickup location.
[25] S5 SEGMENT - Delivery Location Loop
LOOP CONDITION: This S5 loop describes shipment delivery information and delivery location. It may be repeated if shipment units are delivered to multiple locations.

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		
			[11-01] Stop Sequence Number Enter value one (1) and increment by one for each successive S5 segment. [25-01] Stop Sequence Number Per usage note in previous S5 segment, enter value two (2) and increment by one for each successive S5 segment.		
M	**S502**	**163**	**Stop Reason Code**	**M**	**ID 2/2**
			Code specifying the reason for the stop		
			[11-02] Stop Reason Code [25-02] Stop Reason Code		
			LD Load [11-02] Load		
			UL Unload [25-02] 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**
X	**S510**	**154**	**Standard Point Location Code**	**O**	**ID 6/9**
X	**S511**	**190**	**Accomplish Code**	**O**	**ID 1/1**
			Refer to 004010 Data Element Dictionary for acceptable code values.		

Segment: **G62** **Date/Time**
Position: 020
Loop: 2000 Optional
Level: Detail
Usage: Optional (Must Use)
Max Use: 2
Purpose: To specify pertinent dates and times
Syntax Notes:
1 At least one of G6201 or G6203 is required.
2 If either G6201 or G6202 is present, then the other is required.
3 If either G6203 or G6204 is present, then the other is required.
Semantic Notes:
Comments:
Notes:
[12] G62 SEGMENT - Requested Pick-up Date
[26] G62 SEGMENT - Mandatory Delivery Date

Data Element Summary

	Ref. Des.	Data Element	Name		Attributes	
>>	**G6201**	**432**	**Date Qualifier**		**X**	**ID 2/2**
			Code specifying type of date			
			[12-01] Requested Pick-up Date Qualifier [26-01] Mandatory Delivery Date Qualifier CHANGE NOTE: Code value changed to '67' per DM 637.			
			10	Requested Ship Date/Pick-up Date		
				[12-01] Requested Ship Date/Pick-up Date Use '10' to denote Requested Pick-up Date		
			67	Delivered By This Date		
				[26-01] Delivered By This Date Use '67' to denote Mandatory Delivery Date (MDD)		
>>	**G6202**	**373**	**Date**		**X**	**DT 8/8**
			Date expressed as CCYYMMDD			
			[12-02] Requested Pick-up Date Format is CCYYMMDD. [26-02] Mandatory Delivery Date Format is CCYYMMDD.			
	G6203	**176**	**Time Qualifier**		**X**	**ID 1/2**
			Code specifying the reported time			
			[12-03] Time Qualifier ELEMENT CONDITION: If available, data must be sent [26-03] Time Qualifier ELEMENT CONDITION: Required if G6204 is used.			
			G	Earliest Requested Deliver Time		
				[26-03] Earliest Requested Deliver Time		
			I	Earliest Requested Pick Up Time		
				[12-03] Earliest Requested Pick Up Time		
			K	Latest Requested Pick Up Time		
				[12-03] Latest Requested Pick Up Time		
			L	Latest Requested Delivery Time		
				[26-03] Latest Requested Delivery Time		
			U	Scheduled Pick Up Time		
				[12-03] Scheduled Pick Up Time		
			X	Scheduled Delivery Time		
				[26-03] Scheduled Delivery 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)

[12-04] Requested Pick-up Time
Format is 'HHMM'.
[26-04] Time
Format = "HHMM"

CHANGE NOTE: Data Element name changed per DM 737.

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

[12-05] Time Code
ELEMENT CONDITION: Required if G6204 is present.
SOURCE: ISO 8601 available from American National Standards Institute
[26-05] Time Code
CHANGE NOTE: User note corrected per DM 733.
ELEMENT CONDITION: Required if G6204 is used.
SOURCE: ISO 8601 available from American National Standards Institute

LT	Local Time
	[12-05] Local Time [26-05] Local Time
UT	Universal Time Coordinate
	[12-05] Universal Time Coordinate [26-05] Universal Time Coordinate

Segment: **N1** **Name**
Position: 050
Loop: 2100 Optional (Must Use)
Level: Detail
Usage: Optional (Must Use)
Max Use: 1
Purpose: To identify a party by type of organization, name, and code
Syntax Notes:
1 At least one of N102 or N103 is required.
2 If either N103 or N104 is present, then the other is required.
Semantic Notes:
Comments:
1 This segment, used alone, provides the most efficient method of providing organizational identification. To obtain this efficiency the "ID Code" (N104) must provide a key to the table maintained by the transaction processing party.
2 N105 and N106 further define the type of entity in N101.
Notes: [13] N1 SEGMENT - Origin (SF) Data
[27] N1 SEGMENT - Ship-to (ST)

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 [13-01] Origin Name Qualifier [27-01] Ship-to (ST) Name Qualifier SF Ship From [13-01] Ship From ST Ship To [27-01] Ship To	**M ID 2/3**
>>	**N102**	**93**	**Name** Free-form name [13-02] Origin Name [27-02] Ship-to (ST) Name	**X AN 1/60**
>>	**N103**	**66**	**Identification Code Qualifier** Code designating the system/method of code structure used for Identification Code (67) [13-03] DoDAAC/CAGE Qualifier [27-03] DoDAAC/CAGE Qualifier 10 Department of Defense Activity Address Code (DODAAC) [13-03] Department of Defense Activity Address Code (DODAAC) [27-03] Department of Defense Activity Address Code (DODAAC) 33 Commercial and Government Entity (CAGE) [13-03] Commercial and Government Entity (CAGE) [27-03] Commercial and Government Entity (CAGE)	**X ID 1/2**
>>	**N104**	**67**	**Identification Code** Code identifying a party or other code [13-04] Origin DoDAAC/CAGE If DoDAAC/CAGE is unavailable, then N104 = 'XXXXXX' and the complete clear text name and address of the origin is required in the associated N1 loop. [27-04] Ship-to (ST) Identification Code If DoDAAC/CAGE is unavailable, then N104 = 'XXXXXX' and the complete clear text name and address of the origin is required in the associated N1 loop.	**X AN 2/80**
X	**N105**	**706**	**Entity Relationship Code** Refer to 004010 Data Element Dictionary for acceptable code values.	**O ID 2/2**

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

Segment: **N2** **Additional Name Information**
Position: 060
Loop: 2100 Optional (Must Use)
Level: Detail
Usage: Optional
Max Use: 1
Purpose: To specify additional names or those longer than 35 characters in length
Syntax Notes:
Semantic Notes:
Comments:
Notes: [14] N2 SEGMENT - Additional Origin Name
SEGMENT CONDITION: Use if additional origin name applies.
[28] N2 SEGMENT - Additional Ship-to (ST) Name
SEGMENT CONDITION: Use when Additional Ship-to Name applies.

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
M	**N201**	**93**	**Name**	**M**	**AN 1/60**
			Free-form name		
			[14-01] Additional Origin Name [28-01] Additional Ship-to (ST) Name		
X	**N202**	**93**	**Name**	**O**	**AN 1/60**

Segment: **N3** **Address Information**
Position: 070
Loop: 2100 Optional (Must Use)
Level: Detail
Usage: Optional (Must Use)
Max Use: 2
Purpose: To specify the location of the named party
Syntax Notes:
Semantic Notes:
Comments:
Notes: [15] N3 SEGMENT - Origin (SF) Street Address
[29] N3 SEGMENT - Ship-to (ST) Street Address

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
M	**N301**	**166**	**Address Information** Address information [15-01] Origin Street Address [29-01] Ship-to (ST) Street Address	**M**	**AN 1/55**
X	**N302**	**166**	**Address Information**	**O**	**AN 1/55**

Segment: **N4** **Geographic Location**
Position: 080
Loop: 2100 Optional (Must Use)
Level: Detail
Usage: Optional (Must Use)
Max Use: 1
Purpose: To specify the geographic place of the named party
Syntax Notes: **1** If N406 is present, then N405 is required.
Semantic Notes:
Comments: **1** A combination of either N401 through N404, or N405 and N406 may be adequate to specify a location.
2 N402 is required only if city name (N401) is in the U.S. or Canada.
Notes: [16] N4 SEGMENT - Origin (SF) City Name and State/ZIP Codes
[30] N4 SEGMENT - Ship-to (ST) City Name and State/ZIP Codes

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
>>	**N401**	**19**	**City Name** Free-form text for city name [16-01] Origin City Name [30-01] Ship-to (ST) City Name	**O**	**AN 2/30**
>>	**N402**	**156**	**State or Province Code** Code (Standard State/Province) as defined by appropriate government agency [16-02] Origin State Code SOURCE: National Zip Code and Post Office Directory available from U.S. Postal Service National Information Data Center [30-02] Ship-to (ST) State Code SOURCE: National Zip Code and Post Office Directory available from U.S. Postal Service National Information Data Center	**O**	**ID 2/2**
>>	**N403**	**116**	**Postal Code** Code defining international postal zone code excluding punctuation and blanks (zip code for United States) [16-03] Origin ZIP Code SOURCE: National ZIP Code and Post Office Directory, Publication 65 available from U.S Postal Service; The USPS Domestic Mail Manual available from New Orders Superintendent of Documents [30-03] Ship-to (ST) ZIP Code SOURCE: National ZIP Code and Post Office Directory, Publication 65 available from U.S Postal Service; The USPS Domestic Mail Manual available from New Orders Superintendent of Documents	**O**	**ID 3/15**
X	**N404**	**26**	**Country Code**	**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: 090
Loop: 2100 Optional (Must Use)
Level: Detail
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: [17] PER SEGMENT - Shipper Point of Contact
SEGMENT CONDITION: Use when Issuing Officer data is applicable. Not used for pre-offer notices.
[31] PER SEGMENT - Ship To Point of Contact
SEGMENT CONDITION: Use when a contact at the destination location is needed/desired. Not used for pre-alert notices.

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			
			[17-01] Shipper Point of Contact Qualifier [31-01] Ship To Point of Contact Qualifier			
			DC	Delivery Contact		
				[31-01] Delivery Contact		
			IO	Issuing Officer		
				[17-01] Issuing Officer		
			SH	Shipper Contact		
				[17-01] Shipper Contact		
	PER02	**93**	**Name**		**O**	**AN 1/60**
			Free-form name			
			[17-02] Shipper Point of Contact Name [31-02] Ship To Point of Contact Name ELEMENT CONDITION: If available, data must be sent			
>>	**PER03**	**365**	**Communication Number Qualifier**		**X**	**ID 2/2**
			Code identifying the type of communication number			
			[17-03] Telephone Number Qualifier [31-03] Telephone Number Qualifier			
			TE	Telephone		
				[17-03] Telephone [31-03] Telephone		
>>	**PER04**	**364**	**Communication Number**		**X**	**AN 1/80**
			Complete communications number including country or area code when applicable			
			[17-04] Shipper Point of Contact Telephone Number Enter shipper's commercial telephone number (include area code) and any associated extension numbers. [31-04] Telephone Number			
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: **LX** **Assigned Number**
Position: 200
Loop: 2300 Optional (Must Use)
Level: Detail
Usage: Optional (Must Use)
Max Use: 1
Purpose: To reference a line number in a transaction set
Syntax Notes:
Semantic Notes:
Comments:
Notes: [18] LX SEGMENT - Freight Piece Loop Provide one LX loop for each piece of freight. If shipping multiple pieces under a single transportation control number (TCN), use a separate LX loop for each piece, but use the same TCN.
[32] LX SEGMENT - Delivery Stop-off Loop
LOOP CONDITION: Use this loop to indicate which freight pieces will be delivered to a particular stop-off. Not needed otherwise.

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
M	**LX01**	**554**	**Assigned Number** Number assigned for differentiation within a transaction set [18-01] Assigned Loop Number Begin with the value one (1) and increment by one for each shipment unit. [32-01] Shipment Unit Loop Number Begin with the value one (1) and increment by one for each shipment unit.	**M N0 1/6**

Segment: **LCT** **Logistics Container Tracking Information**
Position: 210
Loop: 2300 Optional (Must Use)
Level: Detail
Usage: Optional (Must Use)
Max Use: 1
Purpose: To identify the necessary information for tracking containers and identifying contents of containers
Syntax Notes:
1 If either LCT04 or LCT05 is present, then the other is required.
2 If LCT06 is present, then at least one of LCT07 LCT08 or LCT09 is required.
3 If LCT07 is present, then LCT06 is required.
4 If LCT08 is present, then LCT06 is required.
5 If LCT09 is present, then LCT06 is required.
6 If either LCT10 or LCT11 is present, then the other is required.
Semantic Notes:
1 LCT01 is the container identification number.
2 LCT12 should only be used when LCT02 is equal to PLT.
Comments:
Notes: [19] LCT SEGMENT - Shipment Unit
[33] LCT SEGMENT - Shipment Unit at Stop-off

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
M	**LCT01**	**127**	**Reference Identification** Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier [19-01] Shipment Unit TCN Use lead TCN of shipment unit (container TCN, lead TCN, pallet TCN, etc.) for the shipment unit. [33-01] Shipment Unit TCN Use lead TCN of freight piece (container TCN, lead TCN, pallet TCN, etc.) for the shipment unit at this stop-off.	**M AN 1/30**
M	**LCT02**	**211**	**Packaging Form Code** Code for packaging form of the lading quantity [19-02] Type Pack Code Code for packaging form of the lading quantity. Enter X12 Type Pack Code (e.g., BOX, CAS, CNT, CTN, PCS, PCT, etc.). {See Section 6.0 (DTEB Transportation Service Request Implementation Convention) for appropriate code values. [33-02] Type Pack Code Code for packaging form of the lading quantity. Enter X12 Type Pack Code. See Section 6.0 (DTEB Transportation Service Request Implementation Convention) for appropriate code values.	**M ID 3/3**
			BAG — Bag [19-02] Bag Use 'BAG' to denote Bag, burlap or cloth	
			BAL — Bale [19-02] Bale	
			BBL — Barrel [19-02] Barrel	
			BDL — Bundle [19-02] Bundle	
			BOX — Box [19-02] Box [33-02] Box	

BSK	Basket or hamper
	[19-02] Basket or hamper Use 'BSK' to denote Basket
CAB	Cabinet
	[19-02] Cabinet
CAN	Can
	[19-02] Can
CAS	Case
	[19-02] Case [33-02] Case
CBY	Carboy
	[19-02] Carboy
CNA	Household Goods Containers, Wood
	[19-02] Household Goods Containers, Wood Use 'CNA' to denote HHG containers, wood
CNB	Container, MAC-ISO (Military Airlift Container - International Standards Organization) Light Weight 8x8x20 Foot Air An air container conforming to ISO standards
	[19-02] Container, MAC-ISO (Military Airlift Container - International Standards Organization) Light Weight 8x8x20 Foot Air Use 'CNB' to denote Container, MAC-ISO, lt. wgt. 8x8x20 foot air
CNC	Container, Navy Cargo Transporter
	[19-02] Container, Navy cargo transporter
CND	Container, Commercial Highway Lift
	[19-02] Container, commercial highway lift
CNE	Engine Container
	[19-02] Engine container
CNF	Multiwall Container Secured to Warehouse Pallet
	[19-02] Multiwall Container Secured to Warehouse Pallet Use 'CNF' to denote Multiwall container secured to warehouse plt
CNT	Container
	[19-02] Container Use 'CNT' to denote Container, other than CC, CM, CU, CW, MW, MX [33-02] Container
CNX	CONEX - Container Express
	An 8x8x8-foot container used for packaging and shipping military material
	[19-02] CONEX - Container Express Use 'CNX' to denote CONEX (Gov't owned container)
COL	Coil
	[19-02] Coil
CRD	Cradle
	[19-02] Cradle Use 'CRD' to denote Engine cradle or dolly
CRT	Crate
	[19-02] Crate

CTN	Carton
	[19-02] Carton [33-02] Carton
CYL	Cylinder
	[19-02] Cylinder
DRM	Drum
	A large container with a cylindrical shape; top may have removable or sealed top sides may be fiberboard or metal
	[19-02] Drum
DUF	Duffle Bag
	[19-02] Duffle Bag Use 'DUF' to denote Dufflebag
ENV	Envelope
	[19-02] Envelope
HPR	Hamper
	[19-02] Hamper
KEG	Keg
	[19-02] Keg
LSE	Loose
	[19-02] Loose Use 'LSE' to denote Loose, not packed
MLV	MILVAN - Military Van
	A 20-foot transportation van that conforms to ISO standards
	[19-02] MILVAN - Military Van Use 'MLV' to denote MILVAN
MSV	MSCVAN - Military Sealift Command Van
	A 35-foot transportation van
	[19-02] MSCVAN - Military Sealift Command Van Use 'MSV' to denote MSCVAN
MXD	Mixed Type Pack
	[19-02] Mixed Type Pack Use 'MXD' to denote Mixed
PAL	Pail
	[19-02] Pail
PCS	Pieces
	[19-02] Pieces Use 'PCS' to denote Piece [33-02] Pieces
PLL	New Code Added by IC
	[19-02] [Migration Code] 463L Air Pallet
PLT	Pallet
	[19-02] Pallet Use 'PLT' to denote Palletized unit load other than code MW [33-02] Pallet
REL	Reel
	[19-02] Reel
ROL	Roll
	[19-02] Roll
SAK	Sack
	[19-02] Sack Use 'SAK' to denote Sack, paper

SCS	Suitcase
	[19-02] Suitcase
SHT	Sheet
	[19-02] Sheet
SKD	Skid
	[19-02] Skid
SKE	Skid, elevating or lift truck
	[19-02] Skid, elevating or lift truck Use 'SKE' to denote Skid, box
SPL	Spool
	[19-02] Spool
SVN	SEAVAN - Sea Van
	A commercial or military 40-foot transportation container that conforms to ISO standards
	[19-02] SEAVAN - Sea Van Use 'SVN' to denote SEAVAN
TBE	Tube
	[19-02] Tube
TBN	Tote Bin
	[19-02] Tote Bin Use 'TBN' to denote SEAVAN - TOTE
TKR	Tank Car
	[19-02] Tank Car
TKT	Tank Truck
	[19-02] Tank Truck
TRK	Trunk and Chest
	[19-02] Trunk and Chest Use 'TRK' to denote Footlocker (Trunk)
TRU	Truck
	[19-02] Truck
TUB	Tub
	[19-02] Tub
UNT	Unit
	[19-02] Unit Use 'UNT' to denote Unitized (use RT for unitized cargo on RORO)
VEH	Vehicles
	[19-02] Vehicles Use 'VEH' to denote Vehicle
VOC	New Code Added by IC
	[19-02] Vehicle in Operating Condition
VPK	Van Pack
	[19-02] Van Pack Use 'VPK' to denote Van chassis
WHE	On Own Wheel
	[19-02] On Own Wheel Use 'WHE' to denote RORO (roll-off, roll-on)
WRP	Wrapped
	[19-02] Wrapped

	LCT03	**352**	**Description**	**O**	**AN 1/80**
			A free-form description to clarify the related data elements and their content		
			[19-03] Description ELEMENT CONDITION: If available, use NMFC text description of the unit(s) being shipped. Otherwise, provide a clear text description of the items in the shipment unit. If the shipment unit is a consolidation, enter value 'MIXED CARGO'.		
>>	**LCT04**	**188**	**Weight Unit Code**	**X**	**ID 1/1**
			Code specifying the weight unit		
			[19-04] Shipment Unit Weight Qualifier		
			L Pounds		
			[19-04] Pounds		
>>	**LCT05**	**395**	**Unit Weight**	**X**	**R 1/8**
			Numeric value of weight per unit		
			[19-05] Shipment Unit Weight Entry may contain a decimal; if not, decimal is assumed at right-most point of the field.		
	LCT06	**90**	**Measurement Unit Qualifier**	**X**	**ID 1/1**
			Code specifying the linear dimensional unit		
			[19-06] Shipment Unit Measurement Unit Qualifier ELEMENT CONDITION: Provide if available.		
			E Feet		
			[19-06] Feet		
			N Inches		
			[19-06] Inches		
	LCT07	**82**	**Length**	**X**	**R 1/8**
			Largest horizontal dimension of an object measured when the object is in the upright position		
			[19-07] Shipment Unit Length ELEMENT CONDITION: Provide if available.		
	LCT08	**189**	**Width**	**X**	**R 1/8**
			Shorter measurement of the two horizontal dimensions measured with the object in the upright position		
			[19-08] Shipment Unit Width ELEMENT CONDITION: Provide if available.		
	LCT09	**65**	**Height**	**X**	**R 1/8**
			Vertical dimension of an object measured when the object is in the upright position		
			[19-09] Shipment Unit Height ELEMENT CONDITION: Provide if available.		
>>	**LCT10**	**184**	**Volume Unit Qualifier**	**X**	**ID 1/1**
			Code identifying the volume unit		
			[19-10] Shipment Unit Volume Unit Qualifier		
			E Cubic Feet		
			[19-10] Cubic Feet		
>>	**LCT11**	**183**	**Volume**	**X**	**R 1/8**
			Value of volumetric measure		
			[19-11] Shipment Unit Volume Entry may contain a decimal; if not, decimal is assumed at right-most point of the field.		
X	**LCT12**	**399**	**Pallet Exchange Code**	**O**	**ID 1/1**
			Refer to 004010 Data Element Dictionary for acceptable code values.		

Segment: **L11** **Business Instructions and Reference Number**
Position: 260
Loop: 2300 Optional (Must Use)
Level: Detail
Usage: Optional
Max Use: 10
Purpose: To specify instructions in this business relationship or a reference number
Syntax Notes: **1** At least one of L1101 or L1103 is required.
2 If either L1101 or L1102 is present, then the other is required.
Semantic Notes:
Comments:
Notes: [20] L11 SEGMENT - Special Handling Minimum Temperature Allowed
SEGMENT CONDITION: Use the segment when special temperature handling is required.
[21] L11 SEGMENT - Special Handling Maximum Temperature Allowed
SEGMENT CONDITION: Use the segment when special temperature handling is required.

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
>>	**L1101**	**127**	**Reference Identification** Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier [20-01] Special Handling Minimum Temperature Allowed Enter minimum temperature (in Fahrenheit) at which freight may be kept. [21-01] Special Handling Maximum Temperature Allowed Enter maximum temperature (in Fahrenheit) at which freight may be kept.	**X AN 1/30**
>>	**L1102**	**128**	**Reference Identification Qualifier** Code qualifying the Reference Identification [20-02] Minimum Temperature Qualifier [21-02] Maximum Temperature Qualifier HQ Reinsurance Reference [21-02] Reinsurance Reference Use 'HQ' to denote Maximum Temperature Allowed SU Special Processing Code Unique code identifying the special handling requirements for the claim [20-02] Special Processing Code Use 'SU' to denote Minimum Temperature Allowed	**X ID 2/3**
X	**L1103**	**352**	**Description**	**X AN 1/80**

Segment: **G61** **Contact**
Position: 270
Loop: 2350 Optional
Level: Detail
Usage: Optional
Max Use: 1
Purpose: To identify a person or office to whom communications should be directed
Syntax Notes: **1** If either G6103 or G6104 is present, then the other is required.
Semantic Notes:
Comments: **1** G6103 qualifies G6104.
Notes: [22] G61 SEGMENT - Emergency Contact
SEGMENT CONDITION: Used only if shipment contains hazardous materials. Repeat this segment as required to pass two emergency phone numbers, one for commercial and the other toll free.

Data Element Summary

	Ref. Des.	Data Element	Name		Attributes	
M	**G6101**	**366**	**Contact Function Code**		**M**	**ID 2/2**
			Code identifying the major duty or responsibility of the person or group named			
			[22-01] Emergency Contact Qualifier			
			EM	Emergency Contact		
				[22-01] Emergency Contact		
M	**G6102**	**93**	**Name**		**M**	**AN 1/60**
			Free-form name			
			[22-02] Emergency Contact Name			
	G6103	**365**	**Communication Number Qualifier**		**X**	**ID 2/2**
			Code identifying the type of communication number			
			[22-03] Telephone Number Qualifier			
			AP	Alternate Telephone		
				[22-03] Alternate Telephone Use 'AP' to denote Toll-free Emergency Number		
			TE	Telephone		
				[22-03] Telephone Use 'TE' to denote Commercial Emergency Number		
	G6104	**364**	**Communication Number**		**X**	**AN 1/80**
			Complete communications number including country or area code when applicable			
			[22-04] Emergency Contact Telephone Number Enter shipper's commercial telephone number (include area code) and any associated extension numbers.			
X	**G6105**	**443**	**Contact Inquiry Reference**		**O**	**AN 1/20**

Segment: **LH1** **Hazardous Identification Information**
Position: 300
Loop: 2355 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: [23] LH1 SEGMENT - HAZMAT Quantities
SEGMENT CONDITION: Required if the shipment contains 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 [23-01] HAZMAT - Unit Of Measure Code Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken. 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. If a particular element contains several valid values found in multiple tables within section six of an IC, the following entry would be made. Common code values associated with multiple definitions prevents documentation of the entire sub-set. Refer to 004010 Data Element Dictionary for acceptable code values.	**M**	**ID 2/2**
M	**LH102**	**80**	**Lading Quantity** Number of units (pieces) of the lading commodity [23-02] HAZMAT - Lading Quantity Contains the number of units (pieces) of the lading commodity that is Hazardous. Reference 49 CFR 172.202(c).	**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 [23-03] HAZMAT - UN/NA ID Code Contains the United Nations/North America (UN/NA) code. SOURCE: Hazardous Materials Regulations of the Department of Transportation by Air, Rail, Highway, and Water available from Association of American Railroads Publications	**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** Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken [23-06] 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.	**O**	**ID 2/2**

ELEMENT CONDITION: Required if LH107 or LFH (Metric Weight) is used.

BA	Bale
	[23-06] Bale
BD	Bundle
	[23-06] Bundle
BG	Bag
	[23-06] Bag
BR	Barrel
	[23-06] Barrel
BS	Basket
	[23-06] Basket
BX	Box
	[23-06] Box
CA	Case
	[23-06] Case
CB	Carboy
	[23-06] Carboy
CH	Container
	[23-06] Container
CL	Cylinder
	[23-06] Cylinder
CN	Can
	[23-06] Can
CP	Crate
	[23-06] Crate
CT	Carton
	[23-06] Carton
CX	Coil
	[23-06] Coil
DR	Drum
	[23-06] Drum
EV	Envelope
	[23-06] Envelope
KE	Keg
	A unit of weight equal to 100 pounds, used for nails
	[23-06] Keg
NV	Vehicle
	[23-06] Vehicle
PA	Pail
	[23-06] Pail
PC	Piece
	[23-06] Piece
PF	Pallet (Lift)
	[23-06] Pallet (Lift)
PL	Pallet/Unit Load
	[23-06] Pallet/Unit Load
RE	Reel
	[23-06] Reel
RL	Roll
	[23-06] Roll

			SH	Sheet	
				[23-06] Sheet	
			SJ	Sack	
				[23-06] Sack	
			SO	Spool	
				[23-06] Spool	
			SV	Skid	
				[23-06] Skid	
			TB	Tube	
				[23-06] Tube	
			TE	Tote	
				[23-06] Tote	
			TK	Tank	
				[23-06] Tank	
			WR	Wrap	
				[23-06] Wrap	
			ZZ	Mutually Defined	
				[23-06] Mutually Defined	
	LH107	**380**	**Quantity**	**O**	**R 1/15**
			Numeric value of quantity		
			[23-07] 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.		
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		
			[23-09] HAZMAT - Residue Indicator Code		
			R	Residue Last Contained Description (Tank Car)	
				[23-09] Residue Last Contained Description (Tank Car) Use 'R' to denote Unit being shipped is empty and contains a residue from a prior movement, reference 40 CFR 172.203(e)	
	LH110	**254**	**Packing Group Code**	**O**	**ID 1/3**
			Code indicating degree of danger in terms of Roman number I, II or III		
			[23-10] HAZMAT - Packing Group Code Indicate the required packing group using Roman Numeral I, II, or III to indicate the degree of danger as shown in column 5 of 49 CFR, Table 172.101. SOURCE: The Canadian Gazette, Part II available from Canadian Government Publishing Centre Supply and Services Canada		
X	**LH111**	**1375**	**Interim Hazardous Material Regulatory Number**	**O**	**AN 1/5**

Segment: **LH2** **Hazardous Classification Information**
Position: 310
Loop: 2355 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: [24] LH2 SEGMENT - HAZMAT Classification
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 [24-01] 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 MN entry in this column is 'Forbidden' may not be offered for transportation nor be transported. This segment needs to be repeated for each subsidiary hazard. SOURCE: Hazardous Materials Regulations of the Department of Transportation by Air, Rail, Highway, and Water available from Association of American Railroads Publications	**O**	**ID 1/30**
>>	**LH202**	**983**	**Hazardous Class Qualifier** Code qualifying hazardous class [24-02] 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 [24-02] Primary S Secondary [24-02] 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 [24-05] HAZMAT - Reportable Quantity ELEMENT CONDITION: Required if necessary to indicate a reportable quantity is present in the shipment. For empty packagings or units containing the residue of a hazardous material, reference 49 CFR 172.203(e). RQ Reportable Quantity [24-05] 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 [24-06] HAZMAT Flashpoint Temperature Code ELEMENT CONDITION: Required if LH207 is used. FA Fahrenheit [24-06] Fahrenheit		
	LH207	**408**	**Temperature**	**X**	**R 1/4**
			Temperature [24-07] HAZMAT Flashpoint Temperature ELEMENT CONDITION: Required if LH206 is used.		
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: **L3** **Total Weight and Charges**
Position: 010
Loop:
Level: Summary
Usage: Mandatory
Max Use: 1
Purpose: To specify the total shipment in terms of weight, volume, rates, charges, advances, and prepaid amounts applicable to one or more line items
Syntax Notes:
1 If either L301 or L302 is present, then the other is required.
2 If either L303 or L304 is present, then the other is required.
3 If either L309 or L310 is present, then the other is required.
4 If L312 is present, then L301 is required.
5 If either L314 or L315 is present, then the other is required.
Semantic Notes:
1 L305 is the total charges.
Comments:
Notes: [34] L3 SEGMENT - Shipment Totals

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
>>	**L301**	**81**	**Weight** Numeric value of weight [34-01] Total Shipment Weight	**X**	**R 1/10**
>>	**L302**	**187**	**Weight Qualifier** Code defining the type of weight [34-02] Weight Qualifier Use code value 'G' only if requesting movement for a stuffed container or loaded trailer. FR Freight Weight [34-02] Freight Weight G Gross Weight [34-02] Gross Weight	**X**	**ID 1/2**
X	**L303**	**60**	**Freight Rate**	**X**	**R 1/9**
X	**L304**	**122**	**Rate/Value Qualifier** Refer to 004010 Data Element Dictionary for acceptable code values.	**X**	**ID 2/2**
X	**L305**	**58**	**Charge**	**O**	**N2 1/12**
X	**L306**	**191**	**Advances**	**O**	**N2 1/9**
X	**L307**	**117**	**Prepaid Amount**	**O**	**N2 1/9**
X	**L308**	**150**	**Special Charge or Allowance Code** Refer to 004010 Data Element Dictionary for acceptable code values.	**O**	**ID 3/3**
>>	**L309**	**183**	**Volume** Value of volumetric measure [34-09] Total Shipment Volume	**X**	**R 1/8**
>>	**L310**	**184**	**Volume Unit Qualifier** Code identifying the volume unit [34-10] Volume Unit Qualifier E Cubic Feet [34-10] Cubic Feet	**X**	**ID 1/1**
>>	**L311**	**80**	**Lading Quantity** Number of units (pieces) of the lading commodity [34-11] Total Shipment Units	**O**	**N0 1/7**

>>	**L312**	**188**	**Weight Unit Code**	**O**	**ID 1/1**
			Code specifying the weight unit		
			[34-12] Units Qualifier Qualifies weight value in L301.		
			L Pounds		
			[34-12] Pounds		
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: [35] SE SEGMENT - 3rd Party Logistics Transportation Service Request Trailer

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 [35-01] Number of Included 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 [35-02] Transaction Set Control Number This data element ends the transaction set and should match the number that appears in the ST02 that begins the transaction set.	**M**	**AN 4/9**

Section 4.0

IC ELEMENT MATRIX

OVERVIEW

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

PURPOSE

Using the IC element matrix will expedite mapping of an application database into a commercial EDI translation package. The application notes section below describes the application specific to this IC element matrix.

HOW TO READ THE IC ELEMENT MATRIX

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

Record Types

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

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

Two Categories of Record Information

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

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

Matrix Layout

The IC element matrix lists information in sixteen columns.

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

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

Sort Order of the Matrix

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

APPLICATION NOTES

The IC element matrix in this section maps data requirements for the GBL Information Request. DoD coordinated the IC elements between transportation activities involved in the DoD electronic data interchange effort.

DoD INFORMATION						X12 SEGMENT INFORMATION							X12 ELEMENT INFORMATION				
Index	DG	Data Name Notes and Codes	DoD Recommended Attributes			Tabl	Pos	Req Des	Max Use	Lp Rpt	Lp Lvl	Lp ID	Ref Des	DE #	Attributes		
1		**ST SEGMENT - 3rd Party Logistics Transportation Service Request Header** Use this implementation convention (IC) for 3rd Party Logistics Transportation Service Request.	M			1	010	M	1								
1-01		Transaction Set Identifier Code 219 - Logistics Service Request	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		Transaction Set Control Number Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set. The application and structure of the control number must be agreed upon between trading partners. (For example, some applications use all nine digits where the first five might indicate a group control number and the last four represent the sequence of the transaction set within the functional group. Also, the entire nine digit field may simply represent the sequence of the transaction set generated by a trading partner.)	M	AN	4/9	1	010	M	1				ST02	329	M	AN	4/9
2		**B9 SEGMENT - Record Number/Purpose/Shipment Method**	M			1	020	M	1								
2-01		Offer Record Number Enter a unique logistics identification number assigned by the originator of this transaction set.	M	AN	1/30	1	020	M	1				B901	127	M	AN	1/30
							B901 is the logistics identification number.										
2-02		Transaction Set Purpose Code 00 - Original *Use '00' to denote Original Offer.* 01 - Cancellation 04 - Change 14 - Advance Notification *Use '14' to denote Pre-Offer Notice (no X12 220 response required).*	M	ID	2/2	1	020	M	1				B902	353	M	ID	2/2
2-03		Shipment Method of Payment CC - Collect CD - Collect on Delivery PP - Prepaid (by Seller) TP - Third Party Pay	M	ID	2/2	1	020	M	1				B903	146	O	ID	2/2
3		**B9A SEGMENT - Service Request Code**	M			1	030	M	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		
3-01		Service Request Code RE - Rate Estimate *Use 'RE' to denote this is a Defense Freight Transportation Services (DFTS) shipment.*	M	ID	2/2	1	030	M	7				B9A01	1644	M	ID	2/2
4		**L11 SEGMENT - Bill of Lading Cross Reference** SEGMENT CONDITION: Used to pass Bill of Lading cross reference information only.	C			1	040	O	99								
							At least one of L1101 or L1103 is required. If either L1101 or L1102 is present, then the other is required.										
4-01		Reference Identification Associated Bill of Lading number	M	AN	1/30	1	040	O	99				L1101	127	C	AN	1/30
4-02		Reference Identification Qualifier BM - Bill of Lading Number	M	ID	2/2	1	040	O	99				L1102	128	C	ID	2/3
5		**MS3 SEGMENT - INTERLINE INFORMATION** SEGMENT CONDITION: Use only when requesting transportation for a scheduled/dedicated truck move. Not used otherwise.	C			1	050	O	99								
							If MS305 is present, then MS303 is required.										
5-01		Standard Carrier Alpha Code Insert the SCAC of the carrier with whom the 3rd Party Logistics Coordinator contracted for the scheduled/dedicated truck route. SOURCE: Directory of Standard Multi-Model Carriers and Tariff Agents Codes (SCAC-STAC), NMF 101 Series available from National Motor Freight Association, Inc.	M	ID	2/4	1	050	O	99				MS301	140	M	ID	2/4
							MS301 is the Standard Carrier Alpha Code (SCAC) of the interline carrier.										
5-02		Routing Sequence Code B - Origin/Delivery Carrier (Any Mode)	M	ID	1/1	1	050	O	99				MS302	133	M	ID	1/2
5-04		Transportation Method/Type Code L - Contract Carrier *Use 'L' to denote Scheduled/Dedicated Trucks.*	M	ID	1/1	1	050	O	99				MS304	91	O	ID	1/2
6		**ITA SEGMENT - Accessorial/Special Handling Request** SEGMENT CONDITION: Use when accessorial services or special handling is requested. Not used for pre-offer notices.	C			1	060	O	20								
							If ITA02 is present, then at least one of ITA03, ITA13, or ITA14 is required. If ITA08 is present, then ITA09 is required. If either ITA10 or ITA11 is present, then the other is required. If ITA15 is present, then ITA02 is required. If ITA17 is present, then ITA12 is required.										
6-01		Accessorial/Special Handling Request Code S - Service	M	ID	1/1	1	060	O	20				ITA01	248	M	ID	1/1
							If ITA01 equals "A" - allowance or "C" - charge, then at least one of ITA06, ITA07, or ITA08 must be present.										

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6-04		Allowance or Charge Method of Handling Code Use code value 'ZZ' to satisfy X12 syntax requirements. CHANGE NOTE: Data element added to satisfy X12 requirements per DM 732. ZZ - Mutually Defined	M	ID	2/2	1	060	O	20				ITA04	331	M	ID	2/2
6-13		Accessorial/Special Handling Request Description Insert the projected accessorial services that may be required for the shipment unit. See Section 6 for list of data values.	M	AN	3/3	1	060	O	20				ITA13	352	C	AN	1/80
							ITA13 is used to clarify the allowance, charge, or service.										
7		**NTE SEGMENT - Rate Structure Tier Requested** SEGMENT CONDITION: Use this segment to indicate the rate structure requested under the DFTS contract. Use of this segment is required for all DFTS transportation service requests except those transported by rail.	C			1	070	O	10								
							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.										
7-01		Rate Structure Tier Qualifier TRA - Transportation *Use 'TRA' to denote DFTS Rate Structure Tier.*	M	ID	3/3	1	070	O	10				NTE01	363	O	ID	3/3
7-02		Note/Special Instruction Use this element to indicate the DFTS Rate Structure Tier requested by the DFTS shipper 12 - 12/24 Rate Structure Tier 24 - 24/48 Rate Structure Tier 4 - 4/8 Rate Structure Tier	M	ID	1/2	1	070	O	10				NTE02	352	M	AN	1/80
8		**NTE SEGMENT - Number of Vehicles Requested** SEGMENT CONDITION: Use when requesting truckload moves and the shipper knows the number trucks required for the move. Not used for pre-offer notices. If requesting more than 99 vehicles, use a separate 219.	C			1	070	O	10								
							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.										
8-01		Number of Vehicles Requested Qualifier EED - Equipment Description *Use 'EED' to denote Number of Vehicles Requested.*	M	ID	3/3	1	070	O	10				NTE01	363	O	ID	3/3
8-02		Number of Vehicles Requested Enter numeric value of the number of vehicles being requested. Not used for pre-offer notices. ELEMENT CONDITION: Not used for pre-offer notices.	C	AN	1/2	1	070	O	10				NTE02	352	M	AN	1/80

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9		**NTE SEGMENT - Note/Special Instruction** SEGMENT CONDITION: Use this segment to report additional free-form special instructions/requests to the 3rd Party Logistics Coordinator, such as more detailed information on pickup location, appointment requirements, and other ancillary detail not provided elsewhere in the transaction. If needed, this special instructions segment may be used up to eight (8) times.	C			1	070	O	10								
							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.										
9-01		Note Reference Code ADD - Additional Information	M	ID	3/3	1	070	O	10				NTE01	363	O	ID	3/3
9-02		Note/Special Instruction Enter free-form text for additional/special instructions to the 3rd Party Logistics coordinator.	M	AN	1/80	1	070	O	10				NTE02	352	M	AN	1/80
10		**N7 SEGMENT - Equipment Used/Requested** SEGMENT CONDITION: Use this segment when 1) directly loading a pooled trailer at the shipper's location, 2) if requesting special equipment (low-boy, air cushioned, flatbed, etc.) from the coordinator, or 3) if offering a government owned or leased railcar to the coordinator. Not used for pre-offer notices.	C			1	080	O	1	99	1	1000					
							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.										
10-01		Equipment Initials If directly loading a pooled trailer, enter the SCAC of the carrier that owns the equipment. Otherwise, enter value '0'. SOURCE: IATA Unit Load Devices Manual available from International Air Transport Association	M	AN	1/4	1	080	O	1	99	1	1000	N701	206	O	AN	1/4
							N701 is mandatory for rail transactions.										
10-02		Equipment Number If directly loading a pooled trailer, enter the serial number of the equipment. Otherwise, enter value '0' to satisfy X12 syntax requirements.	M	AN	1/10	1	080	O	1	99	1	1000	N702	207	M	AN	1/10
10-03		Equipment Weight Capacity Express in 1000 lb units. Entry may contain a decimal; if not, decimal is assumed at right-most point of the field.	C	R	1/10	1	080	O	1	99	1	1000	N703	81	C	R	1/10
10-04		Weight Qualifier ELEMENT CONDITION: Required if N703 is used. N - Actual Net Weight	C	ID	1/1	1	080	O	1	99	1	1000	N704	187	C	ID	1/2
10-08		Equipment Cube	C	R	1/8	1	080	O	1	99	1	1000	N708	183	C	R	1/8

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10-09		Equipment Cube Qualifier ELEMENT CONDITION: Required if N708 is used. E - Cubic Feet	C	ID	1/1	1	080	O	1	99	1	1000	N709	184	C	ID	1/1
10-13		Temperature Control Use to specify temperature setting for reefer shipments. If necessary, indicate minimum and maximum temperature (e.g., -10+30.). Report all temperatures in Fahrenheit.	C	AN	3/6	1	080	O	1	99	1	1000	N713	319	O	AN	3/6
10-15		Equipment Length Report in FFFII format.	C	N0	4/5	1	080	O	1	99	1	1000	N715	567	O	N0	4/5
10-22		Equipment Type Enter code to identify the equipment type. Use DoD equipment codes. Left justify the code and fill to the right with the lower case 'x' until a length of four characters is attained. See Section 6 for list of data values.	M	ID	4/4	1	080	O	1	99	1	1000	N722	24	O	ID	4/4
11		**S5 SEGMENT - Pick-up Location** LOOP CONDITION: Mandatory for EDI 219A transactions that are an original, change, or pre-offer (B902='00', '04', or '14' respectively). The S5 loop is not required for cancellations of the entire 219A (B902='01'). This S5 loop describes shipment pickup information and pickup location.	C			2	010	O	1	99	1	2000					
							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.										
11-01		Stop Sequence Number Enter value one (1) and increment by one for each successive S5 segment.	M	N0	1/3	2	010	O	1	99	1	2000	S501	165	M	N0	1/3
11-02		Stop Reason Code LD - Load	M	ID	2/2	2	010	O	1	99	1	2000	S502	163	M	ID	2/2
12		**G62 SEGMENT - Requested Pick-up Date**	M			2	020	O	2	99	1	2000					
							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.										
12-01		Requested Pick-up Date Qualifier 10 - Requested Ship Date/Pick-up Date *Use '10' to denote Requested Pick-up Date.*	M	ID	2/2	2	020	O	2	99	1	2000	G6201	432	C	ID	2/2
12-02		Requested Pick-up Date Format is CCYYMMDD.	M	DT	8/8	2	020	O	2	99	1	2000	G6202	373	C	DT	8/8

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12-03		Time Qualifier ELEMENT CONDITION: If available, data must be sent I - Earliest Requested Pick Up Time K - Latest Requested Pick Up Time U - Scheduled Pick Up Time	C	ID	1/1	2	020	O	2	99	1	2000	G6203	176	C	ID	1/2
12-04		Requested Pick-up Time Format is 'HHMM'.	C	TM	4/4	2	020	O	2	99	1	2000	G6204	337	C	TM	4/8
12-05		Time Code ELEMENT CONDITION: Required if G6204 is present. SOURCE: ISO 8601 available from American National Standards Institute LT - Local Time UT - Universal Time Coordinate	C	ID	2/2	2	020	O	2	99	1	2000	G6205	623	O	ID	2/2
13		**N1 SEGMENT - Origin (SF) Data**	M			2	050	O	1	1	2	2100					
							At least one of N102 or N103 is required. If either N103 or N104 is present, then the other is required.										
13-01		Origin Name Qualifier SF - Ship From	M	ID	2/2	2	050	O	1	1	2	2100	N101	98	M	ID	2/3
13-02		Origin Name	C	AN	1/60	2	050	O	1	1	2	2100	N102	93	C	AN	1/60
13-03		DoDAAC/CAGE Qualifier 10 - Department of Defense Activity Address Code (DODAAC) 33 - Commercial and Government Entity (CAGE)	M	ID	2/2	2	050	O	1	1	2	2100	N103	66	C	ID	1/2
13-04		Origin DoDAAC/CAGE If DoDAAC/CAGE is unavailable, then N104 = 'XXXXXX' and the complete clear text name and address of the origin is required in the associated N1 loop.	M	AN	5/6	2	050	O	1	1	2	2100	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.										
14		**N2 SEGMENT - Additional Origin Name** SEGMENT CONDITION: Use if additional origin name applies.	C			2	060	O	1	1	2	2100					
14-01		Additional Origin Name	M	AN	1/60	2	060	O	1	1	2	2100	N201	93	M	AN	1/60
15		**N3 SEGMENT - Origin (SF) Street Address**	M			2	070	O	2	1	2	2100					

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15-01		Origin Street Address	M	AN	1/55	2	070	O	2	1	2	2100	N301	166	M	AN	1/55
16		**N4 SEGMENT - Origin (SF) City Name and State/ZIP Codes**	M			2	080	O	1	1	2	2100					
							If N406 is present, then N405 is required.										
16-01		Origin City Name	M	AN	2/30	2	080	O	1	1	2	2100	N401	19	O	AN	2/30
							A combination of either N401 through N404, or N405 and N406 may be adequate to specify a location.										
16-02		Origin State Code SOURCE: National Zip Code and Post Office Directory available from U.S. Postal Service National Information Data Center	M	ID	2/2	2	080	O	1	1	2	2100	N402	156	O	ID	2/2
							N402 is required only if city name (N401) is in the U.S. or Canada.										
16-03		Origin ZIP Code SOURCE: National ZIP Code and Post Office Directory, Publication 65 available from U.S Postal Service; The USPS Domestic Mail Manual available from New Orders Superintendent of Documents	M	ID	5/9	2	080	O	1	1	2	2100	N403	116	O	ID	3/15
17		**PER SEGMENT - Shipper Point of Contact** SEGMENT CONDITION: Use when Issuing Officer data is applicable. Not used for pre-offer notices.	C			2	090	O	3	1	2	2100					
							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.										
17-01		Shipper Point of Contact Qualifier IO - Issuing Officer SH - Shipper Contact	M	ID	2/2	2	090	O	3	1	2	2100	PER01	366	M	ID	2/2
17-02		Shipper Point of Contact Name	C	AN	1/60	2	090	O	3	1	2	2100	PER02	93	O	AN	1/60
17-03		Telephone Number Qualifier TE - Telephone	M	ID	2/2	2	090	O	3	1	2	2100	PER03	365	C	ID	2/2
17-04		Shipper Point of Contact Telephone Number Enter shipper's commercial telephone number (include area code) and any associated extension numbers.	M	AN	10/80	2	090	O	3	1	2	2100	PER04	364	C	AN	1/80
18		**LX SEGMENT - Freight Piece Loop** Provide one LX loop for each piece of freight. If shipping multiple pieces under a single transportation control number (TCN), use a separate LX loop for each piece, but use the same TCN.	M			2	200	O	1	999	2	2300					
18-01		Assigned Loop Number Begin with the value one (1) and increment by one for each shipment unit.	M	N0	1/6	2	200	O	1	999	2	2300	LX01	554	M	N0	1/6

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19		**LCT SEGMENT - Shipment Unit**	M			2	210	O	1	999	2	2300					
							If either LCT04 or LCT05 is present, then the other is required. If LCT06 is present, then at least one of LCT07, LCT08, or LCT09 is required. If LCT07 is present, then LCT06 is required. If LCT08 is present, then LCT06 is required. If LCT09 is present, then LCT06 is required. If either LCT10 or LCT11 is present, then the other is required.										
19-01		Shipment Unit TCN Use lead TCN of shipment unit (container TCN, lead TCN, pallet TCN, etc.) for the shipment unit.	M	AN	17/17	2	210	O	1	999	2	2300	LCT01	127	M	AN	1/30
							LCT01 is the container identification number.										
19-02		Type Pack Code Code for packaging form of the lading quantity. Enter X12 Type Pack Code (e.g., BOX, CAS, CNT, CTN, PCS, PCT, etc.). {See Section 6.0 (DTEB Transportation Service Request Implementation Convention) for appropriate code values. See Section 6 for list of data values.	M	ID	3/3	2	210	O	1	999	2	2300	LCT02	211	M	ID	3/3
							LCT12 should only be used when LCT02 is equal to PLT.										
19-03		Description ELEMENT CONDITION: If available, use NMFC text description of the unit(s) being shipped. Otherwise, provide a clear text description of the items in the shipment unit. If the shipment unit is a consolidation, enter value 'MIXED CARGO'.	C	AN	1/80	2	210	O	1	999	2	2300	LCT03	352	O	AN	1/80
19-04		Shipment Unit Weight Qualifier L - Pounds	M	ID	1/1	2	210	O	1	999	2	2300	LCT04	188	C	ID	1/1
19-05		Shipment Unit Weight Entry may contain a decimal; if not, decimal is assumed at right-most point of the field.	M	R	1/8	2	210	O	1	999	2	2300	LCT05	395	C	R	1/8
19-06		Shipment Unit Measurement Unit Qualifier ELEMENT CONDITION: Provide if available. E - Feet N - Inches	C	ID	1/1	2	210	O	1	999	2	2300	LCT06	90	C	ID	1/1
19-07		Shipment Unit Length ELEMENT CONDITION: Provide if available.	C	R	1/8	2	210	O	1	999	2	2300	LCT07	82	C	R	1/8
19-08		Shipment Unit Width ELEMENT CONDITION: Provide if available.	C	R	1/8	2	210	O	1	999	2	2300	LCT08	189	C	R	1/8

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19-09		Shipment Unit Height ELEMENT CONDITION: Provide if available.	C	R	1/8	2	210	O	1	999	2	2300	LCT09	65	C	R	1/8
19-10		Shipment Unit Volume Unit Qualifier E - Cubic Feet	M	ID	1/1	2	210	O	1	999	2	2300	LCT10	184	C	ID	1/1
19-11		Shipment Unit Volume Entry may contain a decimal; if not, decimal is assumed at right-most point of the field.	M	R	1/8	2	210	O	1	999	2	2300	LCT11	183	C	R	1/8
20		**L11 SEGMENT - Special Handling Minimum Temperature Allowed** SEGMENT CONDITION: Use the segment when special temperature handling is required.	C			2	260	O	10	999	2	2300					
							At least one of L1101 or L1103 is required. If either L1101 or L1102 is present, then the other is required.										
20-01		Special Handling Minimum Temperature Allowed Enter minimum temperature (in Fahrenheit) at which freight may be kept.	M	AN	1/3	2	260	O	10	999	2	2300	L1101	127	C	AN	1/30
20-02		Minimum Temperature Qualifier SU - Special Processing Code *Use 'SU' to denote Minimum Temperature Allowed.*	M	ID	2/2	2	260	O	10	999	2	2300	L1102	128	C	ID	2/3
21		**L11 SEGMENT - Special Handling Maximum Temperature Allowed** SEGMENT CONDITION: Use the segment when special temperature handling is required.	C			2	260	O	10	999	2	2300					
							At least one of L1101 or L1103 is required. If either L1101 or L1102 is present, then the other is required.										
21-01		Special Handling Maximum Temperature Allowed Enter maximum temperature (in Fahrenheit) at which freight may be kept.	M	AN	1/3	2	260	O	10	999	2	2300	L1101	127	C	AN	1/30
21-02		Maximum Temperature Qualifier HQ - Reinsurance Reference *Use 'HQ' to denote Maximum Temperature Allowed.*	M	ID	2/3	2	260	O	10	999	2	2300	L1102	128	C	ID	2/3
22		**G61 SEGMENT - Emergency Contact** SEGMENT CONDITION: Used only if shipment contains hazardous materials. Repeat this segment as required to pass two emergency phone numbers, one for commercial and the other toll free.	C			2	270	O	1	99	3	2350					
							If either G6103 or G6104 is present, then the other is required.										
22-01		Emergency Contact Qualifier EM - Emergency Contact	M	ID	2/2	2	270	O	1	99	3	2350	G6101	366	M	ID	2/2

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22-02		Emergency Contact Name	M	AN	1/60	2	270	O	1	99	3	2350	G6102	93	M	AN	1/60
22-03		Telephone Number Qualifier AP - Alternate Telephone *Use 'AP' to denote Toll-free Emergency Number.* TE - Telephone *Use 'TE' to denote Commercial Emergency Number.*	C	ID	2/2	2	270 G6103 qualifies G6104.	O	1	99	3	2350	G6103	365	C	ID	2/2
22-04		Emergency Contact Telephone Number Enter shipper's commercial telephone number (include area code) and any associated extension numbers.	C	AN	10/80	2	270	O	1	99	3	2350	G6104	364	C	AN	1/80
23		**LH1 SEGMENT - HAZMAT Quantities** SEGMENT CONDITION: Required if the shipment contains hazardous material.	C			2	300	O	1	25	4	2355					
23-01		HAZMAT - Unit Of Measure Code Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken. 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. If a particular element contains several valid values found in multiple tables within section six of an IC, the following entry would be made. Common code values associated with multiple definitions prevents documentation of the entire sub-set.	M	ID	2/2	2	300 LH101 and LH102 are used to convey the number and type of packages for bulk and nonbulk movements.	O	1	25	4	2355	LH101	355	M	ID	2/2
23-02		HAZMAT - Lading Quantity Contains the number of units (pieces) of the lading commodity that is Hazardous. Reference 49 CFR 172.202(c).	M	N0	1/7	2	300	O	1	25	4	2355	LH102	80	M	N0	1/7
23-03		HAZMAT - UN/NA ID Code Contains the United Nations/North America (UN/NA) code. SOURCE: Hazardous Materials Regulations of the Department of Transportation by Air, Rail, Highway, and Water available from Association of American Railroads Publications	M	ID	6/6	2	300	O	1	25	4	2355	LH103	277	O	ID	6/6
23-06		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 or LFH (Metric Weight) is used. See Section 6 for list of data values.	C	ID	2/2	2	300 LH106 and LH107 are used to convey the quantity or volume and unit of measure for nonbulk shipments only.	O	1	25	4	2355	LH106	355	O	ID	2/2

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23-07		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	300	O	1	25	4	2355	LH107	380	O	R	1/15
23-09		HAZMAT - Residue Indicator Code R - Residue Last Contained Description (Tank Car) *Use 'R' to denote Unit being shipped is empty and contains a residue from a prior movement, reference 40 CFR 172.203(e).*	C	ID	1/1	2	300	O	1	25	4	2355	LH109	665	O	ID	1/1
							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.										
23-10		HAZMAT - Packing Group Code Indicate the required packing group using Roman Numeral I, II, or III to indicate the degree of danger as shown in column 5 of 49 CFR, Table 172.101. SOURCE: The Canadian Gazette, Part II available from Canadian Government Publishing Centre Supply and Services Canada	C	ID	1/3	2	300	O	1	25	4	2355	LH110	254	O	ID	1/3
24		**LH2 SEGMENT - HAZMAT Classification** SEGMENT CONDITION: Required for loaded and unloaded HAZMAT shipments.	C			2	310	O	4	25	4	2355					
							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.										
24-01		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 MN entry in this column is 'Forbidden' may not be offered for transportation nor be transported. This segment needs to be repeated for each subsidiary hazard. SOURCE: Hazardous Materials Regulations of the Department of Transportation by Air, Rail, Highway, and Water available from Association of American Railroads Publications	M	ID	1/30	2	310	O	4	25	4	2355	LH201	215	O	ID	1/30
24-02		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	310	O	4	25	4	2355	LH202	983	O	ID	1/1
24-05		HAZMAT - Reportable Quantity ELEMENT CONDITION: Required if necessary to indicate a reportable quantity is present in the shipment. For empty packagings or units containing the residue of a hazardous material, reference 49 CFR 172.203(e). RQ - Reportable Quantity	C	ID	2/2	2	310	O	4	25	4	2355	LH205	759	O	ID	2/2

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24-06		HAZMAT Flashpoint Temperature Code ELEMENT CONDITION: Required if LH207 is used. FA - Fahrenheit	C	ID	2/2	2	310	O	4	25	4	2355	LH206	355	C	ID	2/2
							LH206 and LH207 indicate the flashpoint temperature.										
24-07		HAZMAT Flashpoint Temperature ELEMENT CONDITION: Required if LH206 is used.	C	R	1/4	2	310	O	4	25	4	2355	LH207	408	C	R	1/4
25		**S5 SEGMENT - Delivery Location Loop** LOOP CONDITION: This S5 loop describes shipment delivery information and delivery location. It may be repeated if shipment units are delivered to multiple locations.	C			2	010	O	1	99	1	2000					
							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.										
25-01		Stop Sequence Number Per usage note in previous S5 segment, enter value two (2) and increment by one for each successive S5 segment.	M	N0	1/3	2	010	O	1	99	1	2000	S501	165	M	N0	1/3
25-02		Stop Reason Code UL - Unload	M	ID	2/2	2	010	O	1	99	1	2000	S502	163	M	ID	2/2
26		**G62 SEGMENT - Mandatory Delivery Date**	M			2	020	O	2	99	1	2000					
							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.										
26-01		Mandatory Delivery Date Qualifier CHANGE NOTE: Code value changed to '67' per DM 637. 67 - Delivered By This Date *Use '67' to denote Mandatory Delivery Date (MDD).*	M	ID	2/2	2	020	O	2	99	1	2000	G6201	432	C	ID	2/2
26-02		Mandatory Delivery Date Format is CCYYMMDD.	M	DT	8/8	2	020	O	2	99	1	2000	G6202	373	C	DT	8/8
26-03		Time Qualifier ELEMENT CONDITION: Required if G6204 is used. G - Earliest Requested Deliver Time L - Latest Requested Delivery Time X - Scheduled Delivery Time	C	ID	1/1	2	020	O	2	99	1	2000	G6203	176	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		
26-04		Time Format = "HHMM" CHANGE NOTE: Data Element name changed per DM 737.	C	TM	4/4	2	020	O	2	99	1	2000	G6204	337	C	TM	4/8
26-05		Time Code CHANGE NOTE: User note corrected per DM 733. ELEMENT CONDITION: Required if G6204 is used. SOURCE: ISO 8601 available from American National Standards Institute LT - Local Time UT - Universal Time Coordinate	C	ID	2/2	2	020	O	2	99	1	2000	G6205	623	O	ID	2/2
27		**N1 SEGMENT - Ship-to (ST)**	M			2	050	O	1	1	2	2100					
							At least one of N102 or N103 is required. If either N103 or N104 is present, then the other is required.										
27-01		Ship-to (ST) Name Qualifier ST - Ship To	M	ID	2/2	2	050	O	1	1	2	2100	N101	98	M	ID	2/3
27-02		Ship-to (ST) Name	M	AN	1/60	2	050	O	1	1	2	2100	N102	93	C	AN	1/60
27-03		DoDAAC/CAGE Qualifier 10 - Department of Defense Activity Address Code (DODAAC) 33 - Commercial and Government Entity (CAGE)	M	ID	2/2	2	050	O	1	1	2	2100	N103	66	C	ID	1/2
27-04		Ship-to (ST) Identification Code If DoDAAC/CAGE is unavailable, then N104 = 'XXXXXX' and the complete clear text name and address of the origin is required in the associated N1 loop.	M	AN	5/6	2	050	O	1	1	2	2100	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.										
28		**N2 SEGMENT - Additional Ship-to (ST) Name** SEGMENT CONDITION: Use when Additional Ship-to Name applies.	C			2	060	O	1	1	2	2100					
28-01		Additional Ship-to (ST) Name	M	AN	1/60	2	060	O	1	1	2	2100	N201	93	M	AN	1/60
29		**N3 SEGMENT - Ship-to (ST) Street Address**	M			2	070	O	2	1	2	2100					
29-01		Ship-to (ST) Street Address	M	AN	1/55	2	070	O	2	1	2	2100	N301	166	M	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		
30		**N4 SEGMENT - Ship-to (ST) City Name and State/ZIP Codes**	M			2	080	O	1	1	2	2100					
							If N406 is present, then N405 is required.										
30-01		Ship-to (ST) City Name	M	AN	2/30	2	080	O	1	1	2	2100	N401	19	O	AN	2/30
							A combination of either N401 through N404, or N405 and N406 may be adequate to specify a location.										
30-02		Ship-to (ST) State Code SOURCE: National Zip Code and Post Office Directory available from U.S. Postal Service National Information Data Center	M	ID	2/2	2	080	O	1	1	2	2100	N402	156	O	ID	2/2
							N402 is required only if city name (N401) is in the U.S. or Canada.										
30-03		Ship-to (ST) ZIP Code SOURCE: National ZIP Code and Post Office Directory, Publication 65 available from U.S Postal Service; The USPS Domestic Mail Manual available from New Orders Superintendent of Documents	M	ID	5/9	2	080	O	1	1	2	2100	N403	116	O	ID	3/15
31		**PER SEGMENT - Ship To Point of Contact** SEGMENT CONDITION: Use when a contact at the destination location is needed/desired. Not used for pre-alert notices.	C			2	090	O	3	1	2	2100					
							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.										
31-01		Ship To Point of Contact Qualifier DC - Delivery Contact	M	ID	2/2	2	090	O	3	1	2	2100	PER01	366	M	ID	2/2
31-02		Ship To Point of Contact Name ELEMENT CONDITION: If available, data must be sent	C	AN	1/60	2	090	O	3	1	2	2100	PER02	93	O	AN	1/60
31-03		Telephone Number Qualifier TE - Telephone	M	ID	2/2	2	090	O	3	1	2	2100	PER03	365	C	ID	2/2
31-04		Telephone Number	M	AN	10/80	2	090	O	3	1	2	2100	PER04	364	C	AN	1/80
32		**LX SEGMENT - Delivery Stop-off Loop** LOOP CONDITION: Use this loop to indicate which freight pieces will be delivered to a particular stop-off. Not needed otherwise.	C			2	200	O	1	999	2	2300					
32-01		Shipment Unit Loop Number Begin with the value one (1) and increment by one for each shipment unit.	M	N0	1/6	2	200	O	1	999	2	2300	LX01	554	M	N0	1/6
33		**LCT SEGMENT - Shipment Unit at Stop-off**	M			2	210	O	1	999	2	2300					
							If either LCT04 or LCT05 is present, then the other is required. If LCT06 is present, then at least one of LCT07, LCT08, or LCT09 is required. If LCT07 is present, then LCT06 is required. If LCT08 is present, then LCT06 is required. If LCT09 is present, then LCT06 is required. If either LCT10 or LCT11 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		
33-01		Shipment Unit TCN Use lead TCN of freight piece (container TCN, lead TCN, pallet TCN, etc.) for the shipment unit at this stop-off.	M	AN	17/17	2	210 LCT01 is the container identification number.	O	1	999	2	2300	LCT01	127	M	AN	1/30
33-02		Type Pack Code Code for packaging form of the lading quantity. Enter X12 Type Pack Code. See Section 6.0 (DTEB Transportation Service Request Implementation Convention) for appropriate code values. BOX - Box CAS - Case CNT - Container CTN - Carton PCS - Pieces PLT - Pallet	M	ID	3/3	2	210 LCT12 should only be used when LCT02 is equal to PLT.	O	1	999	2	2300	LCT02	211	M	ID	3/3
34		**L3 SEGMENT - Shipment Totals**	M			3	010 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.	M	1								
34-01		Total Shipment Weight	M	R	1/10	3	010	M	1				L301	81	C	R	1/10
34-02		Weight Qualifier Use code value 'G' only if requesting movement for a stuffed container or loaded trailer. FR - Freight Weight G - Gross Weight	M	ID	1/2	3	010	M	1				L302	187	C	ID	1/2
34-09		Total Shipment Volume	M	R	1/8	3	010	M	1				L309	183	C	R	1/8
34-10		Volume Unit Qualifier E - Cubic Feet	M	ID	1/1	3	010	M	1				L310	184	C	ID	1/1
34-11		Total Shipment Units	M	N0	1/7	3	010	M	1				L311	80	O	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		
34-12		Units Qualifier Qualifies weight value in L301. L - Pounds	M	ID	1/1	3	010	M	1				L312	188	O	ID	1/1
35		**SE SEGMENT - 3rd Party Logistics Transportation Service Request Trailer**	M			3	020	M	1								
							SE is the last segment of each transaction set.										
35-01		Number of Included Segments	M	N0	1/10	3	020	M	1				SE01	96	M	N0	1/10
35-02		Transaction Set Control Number This data element ends the transaction set and should match the number that appears in the ST02 that begins the transaction set.	M	AN	4/9	3	020	M	1				SE02	329	M	AN	4/9

Section 6.0
Application Code Lists

This section contains code lists that are maintained by the Department of Defense for formatting transportation service request data to the ASC X12 Transaction Set 219.

[6-13] - Accessorial/Special Handling Request Description

219 Mapping: 1 60 ITA13 352

Accessorial Services for Rail Shipments

X12 Code	DoD Definition
045 *X12 Definition:*	Advancing Charges *Advance Fee*
490 *X12 Definition:*	Crane Operator at Destination *Minimum Air Transportation Charge*
495 *X12 Definition:*	Crane at Destination *Miscellaneous - Destination*
500 *X12 Definition:*	Crane at Origin *Miscellaneous - Origin*
505 *X12 Definition:*	Crane Operator at Origin *Missing Account NBR Charge*
AAM *X12 Definition:*	Protective Material Provided for Blocking and Bracing *Additional Material*
AAS	Attendants Accompanying
ARG	Rail Armed Guard Service
BLK	Blocking and Bracing Charge
CCS	Carrier Caboose Charge
CGC *X12 Definition:*	Carrier Guard Cars *Carrier Guard Car Charge*
CGR *X12 Definition:*	Governments Caboose / Guard Cars Returned *Return Carrier Guard Car Charge*
CSP	Government Caboose Charge
DEM	Demurrage
DPD *X12 Definition:*	Drayage at Destination *Drayage at Port of Debarkation*
DPE *X12 Definition:*	Drayage at Origin *Drayage at Port of Embarkation*
DTB *X12 Definition:*	Detention of Vehicles *Detention (Labor)*
ECS *X12 Definition:*	Empty Cars Ordered but Not Used *Empty Railcar Ordered but Not Used*
EXC	Exclusive Use
FCS *X12 Definition:*	Furnishing Chassis for COFC Shipments *Furnishing Chassis*
GSP	Government Guard Car Charge
GSS	Greater Security Service
HHB *	Handling Freight Not Adjacent to Vehicle
HOL	Sunday or Holiday Pick-up or Delivery
HRS	Heater or Refrigeration
IDC	Idler Car Charge
IMS *X12 Definition:*	Intermodal Shipment *Intermodal Shipment Service Charge*
LDA *X12 Definition:*	Carrier to Load *Loading Allowance*
LDL *X12 Definition:*	Carrier to Unload *Unloading Allowance*
LFD *X12 Definition:*	Dedicated Switch Engine Crew at Destination *Linehaul From Port of Debarkation*
LIE *X12 Definition:*	Liability of Transportation Service Provider *Liability of Carrier Charge*

LMD		Dedicated Switch Engine at Destination
X12 Definition:		*Liner Terms at Port of Debarkation*
LME		Dedicated Switch Engine at Origin
X12 Definition:		*Liner Terms at Port of Embarkation*
LTE		Dedicated Switch Engine Crew at Origin
X12 Definition:		*Linehaul to Port of Embarkation*
PRL		Prelodging
X12 Definition:		*Prelodge Charge*
PUC		Urgent Pickup Service
X12 Definition:		*Pick-up Charge*
PUD		Pick-Up and Delivery
RCC		Reconsignment/Diversion
X12 Definition:		*Reconsignment Charge*
RCL		Redelivery
RDH		Technical Assistance for Loading Rail Cars
X12 Definition:		*Railhead Handling*
RIS	*	Rail Inspection Service
RLS		Relocation of Service
RMC		Return of Empty Container Charge
RMP		Return Movement of Pallet Charge
SAT		Saturday Pick-up Charge
X12 Definition:		*Saturday Pick-up or Delivery Charge*
SFT		Special Train Service
X12 Definition:		*Special Train Movement*
SOC		Stop-off Charge
SPU		Split Pickup
SRG		Storage
SRS		Surveying Routes
SUP		Inspector Required for Loading
X12 Definition:		*Supervisor Requested*
SVS		Storage of Vehicles
TER		Carrier to Unblock, Unbrace, and Untie
X12 Definition:		*Terminal Handling Charges*
TMV		Tendering of Multiple Vehicles
URC		Loading / Unloading
X12 Definition:		Unloading / Reloading Charge
VFN		Vehicles Furnished but Not Used
WTV		Weight Verification Charge

* Migration Code

Accessorial Services for Tailored Transportation Contract Traffic Shipments

Item Number	X12 Code	DoD Definition
	405	Fuel Surcharge
105	CIS	DoD Constant Surveillance Service
	X12 Definition:	*Constant Surveillance*
140	675	Signature and Tally Record Service
	X12 Definition:	*Security Signature Service*
205	045	Advancing Charges
	X12 Definition:	*Advance Fee*
255	CHN	Chains and Binders
	X12 Definition:	*Chain and Binders*
285	DEP	Detention: Vehicles with Power Units
	X12 Definition:	*Detention of Power Units*
290	DET	Detention: Vehicles Without Power Units
	X12 Definition:	*Detention of Trailers*
310	EXC	Exclusive User of Vehicle
	X12 Definition:	*Exclusive Use Charge*
315	EXP	Expedited Service Charge
320	EXD	Extra Driver
350	LIE	Cargo Liability of Carrier
	X12 Definition:	*Liability of Carrier Charge*
355	URC	Loading / Unloading by Motor Carriers
	X12 Definition:	*Unloading / Reloading Charge*
410	HOL	Sunday or Holiday Pick-up or Delivery
	PUC	Urgent Pickup Service
	X12 Definition:	*Pick-up Charge*
410	PUD	Pick-up/Delivery o/t Normal Bus hours
	X12 Definition:	*Pick-up and Delivery*
410	SAT	Saturday Pick-up or Delivery Charge
430	PTS	Protective Tarping for Security Purposes
	X12 Definition:	*Protective Tarp for Security Purposes*
440	RCC	Reconsignment / Diversion
	X12 Definition:	*Reconsignment Charge*
445	RCL	Redelivery
450	RLS	Relocation of Vehicle
485	SDL	Split Delivery
490	SPU	Split Pickup
495	SOC	Stop-off Charge
500	SRG	Storage
530	VFN	Vehicles Furnished But Not Used

* Migration Code

Accessorial / Protective Service for Air Shipments

X12 Code		DoD Definition
020		Address Correction
045 *X12 Definition:*		Advancing Charges *Advanced Fee*
405		Fuel Surcharge
520 X12 Definition:		Overdimensional Oversized Premium
675 *X12 Definition:*		Signature and Tally Record Service *Security Signature Service*
AFN	*	Air Craft Furnished and Not Used
AIR X12 Definition:	*	Air *Air Freight*
CIS *X12 Definition:*		DoD Constant Surveillance Service *Constant Surveillance*
DDN *X12 Definition:*		Dual Driver Protective Service with National Agency Check *Dual Driver with National Agency Check*
DDP		Dual Driver Protective Service
DEL		Delivery Charge
ECR *X12 Definition:*		Escorts/Couriers *Escort/Courier Service*
EVC *X12 Definition:*	*	Excess Valuation *Excess Value Charge*
HAZ *X12 Definition:*	*	Hazardous Material *Hazardous Cargo Charge*
HOL		Sunday or Holiday Pickup or Delivery
PSS *X12 Definition:*		Protective Service Security *Protective Security Service*
PUC *X12 Definition:*		Urgent Pickup Service *Pick-up Charge*
PUD *X12 Definition:*		Pickup or Delivery Before or After Normal Business Hours *Pick-up and Delivery*
RCC *X12 Definition:*		Reconsignment Charge *Reconsignment*
RCL		Redelivery
SAT		Saturday Pickup or Delivery
SEV *X12 Definition:*		Security Escort Vehicle *Security Escort Vehicle Service*
WTG	*	Waiting Time

* Migration Code

Accessorial / Protective Service for Motor Shipments

X12 Code	DoD Definition
045 *X12 Definition:*	Advancing Charges *Advance Fee*
405 *X12 Definition:*	Fuel Adjustment\ *Fuel Surcharge*
520 *X12 Definition:*	Overdimension Permit *Oversized Premium*
675 *X12 Definition:*	Signature Tally *Security Signature Service*
BUA	Bunker Adjustment
CFC	Customs Fees - Container Level
CHN *X12 Definition:*	Chains and Binders *Chain and Binders*
CIS	Constant Surveillance
CUF	Currency Adjustment Factor
DDN	Dual Driver with National Agency Check
DDP *X12 Definition:*	Dual Driver *Dual Driver Protective Service*
DEP *X12 Definition:*	Detention of Conveying Equipment and the Power Unit *Detention of Power Units*
DET *X12 Definition:*	Detention of Conveying Equipment Excluding the Power Unit *Detention of Trailers*
ELS	Extra Lights
EMT	Empty Movement
ERS	Empty Return
EXC	Exclusive Use Charge
EXD	Extra Driver
EXP	Expedited Service Charge
HHB *	Handling freight not adjacent to vehicle
HOL	Sunday or Holiday Pick-up or Delivery
IMP	Impactographs
LIE	Liability of Carrier Charge
MEN	Escort Service with Overnight Subsistence
MES *X12 Definition:*	Escort (standard) *Escort Service*
MET *X12 Definition:*	Escort (telephones) *Escort Service (Telephone)*
MNS *X12 Definition:*	Motor Surveillance (12-hour calls) *Motor Surveillance Service*
MVS	Special Motor Surveillance Charge
PER *X12 Definition:*	Overweight Permit *Permit Charge*
PRL *X12 Definition:*	Prelodging *Prelodge Charge*
PSS *X12 Definition:*	Protective Security (without armed drivers) *Protective Service Security*
PTS *X12 Definition:*	Protective Tarping *Protective Tarp for Security Purposes*

PUC *X12 Definition:*		Urgent Pickup Service *Pick-up Charge*
PUD		Pick-up and Delivery
PVB		Bonded Privately Owned Vehicle Charge
RCC *X12 Definition:*		Reconsignment / Diversion *Reconsignment Charge*
RCL		Redelivery
RLS		Relocation of Vehicle
RSS		Restricted Speeds
RSV		Reservations
SAT		Saturday Pick-up or Delivery Charge
SDL		Split Delivery
SEV *X12 Definition:*		Security Escort Service *Security Escort Vehicle Service*
SNS *X12 Definition:*		Satellite Motor Surveillance *Satellite Surveillance Service*
SOC		Stop-off Charge
SPU		Split Pickup
SRG		Storage
SRS		Surveying Routes
SSR *X12 Definition:*	*	Surveying Routes *Safehaven/Secureholding Refusal*
TOW	*	Motor Towaway Service
TPA	*	Carrier Equipment Pool Charge
URC *X12 Definition:*		Loading/Unloading *Unloading/Reloading Charge*
VFN		Vehicles Furnished But Not Used
VIS		Vehicles Inoperable
VTS *X12 Definition:*		Vehicles in Truckaway *Vehicles in Truckway*
WTV		Weight Verification Charge

* Migration Code

Bulk Fuel Shipments

X12 Code		DoD Definition
045 *X12 Definition:*		Advancing Charges *Advance Fee*
ADL		Advance Loading Charge
CLN		Cleaning Charge
CTR		Circuitous Routing Charge
DEP *X12 Definition:*		Detention with Power Unit *Detention of Power Units*
DET *X12 Definition:*		Detention Without Power Unit *Detention of Trailers*
EDD		Equipment Hose at Destination Charge
EDO		Equipment Hose at Origin Charge
EXP		Expedited Service Charge
HOL		Sunday or Holiday Pick-up or Delivery
HOS *X12 Definition:*		Equipment Hose (over 36') *Hose Charge*
HOX *X12 Definition:*		Equipment Hose (special type) *Hose Charge Special*
PAJ *X12 Definition:*		Pumping Equipment *Pump Charge*
PUC *X12 Definition:*		Urgent Pickup Service *Pick-up Charge*
PUD		Pick-up and Delivery
RCC *X12 Definition:*		Reconsignment / Diversion *Reconsignment Charge*
RCL		Redelivery
SAT *X12 Definition:*		Saturday Pick-up Charge *Saturday Pick-up or Delivery Charge*
SOC		Stop-off Charge
SPA *X12 Definition:*	*	Allowances *Special Allowance*
SPU		Split Pickup
SRG		Storage
TPS		Third-Party Service
VFN		Vehicles Furnished But Not Used
WDS		Waterfront Delivery Charge

* Migration Code

Miscellaneous Services

X12 Code	DoD Definition
TPS	Third-Party Service

Pipeline Shipments

X12 Code		DoD Definition
AIB		Additional Injection/Blending Service Charge
DEL *X12 Definition:*		Delivery Service/Receipt and Issue *Delivery Charge*
FTR		Filtration Service Charge
LAS	*	Co-mingling/Loss Allowance
ORS	*	Receipt and Issue other than Normal Hours

* Migration Code

[10-22] - Type of Equipment

219 Mapping: 1 330 N722 24

Air

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

* Migration Code

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

* Migration Code

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

* Migration Code

Other Methods

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

Rail

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

[17.02] - Type Pack Code

219 Mapping: 2 210 LCT02 211

[31.02] - Type Pack Code

219 Mapping: 2 210 LCT02 211

[21.01] - HAZMAT - Unit of Measure Code

219 Mapping: 2 300 LH101 355

DoD Code	X12 Code	DoD Definition	LH101 Value Index 21-01
AB	MSV	MSCVAN	CH
X12 Definition:		*MSCVAN - Military Sealift Command Van*	
BD	BDL	Bundle	BD
BE	BAL	Bale	BA
BG	BAG	Bag, burlap, or cloth	BG
X12 Definition:		*Bag*	
BL	BBL	Barrel	BR
BS	BSK	Basket	BS
X12 Definition:		*Basket or Hamper*	
BX	BOX	Box	BX
CA	CAB	Cabinet	
CB	CBY	Carboy	CB
CC	CNA	HHG Containers, wood	CH
X12 Definition:		*Household Goods Container*	
CL	COL	Coil	CX
CM	CNB	Container, MAC-ISO, lt. wgt. 8x8x20 foot air	CH
X12 Definition:		*Container*	
CN	CAN	Can	CN
CO	CNT	Container, other than CC, CM, CU, CW, MW, MX	CH
X12 Definition:		*Container*	
CR	CRT	Crate	CP
CS	CAS	Case	CA
CT	CTN	Carton	CT
CU	CNC	Container, Navy cargo transporter	CH
X12 Definition:		*Container*	
CW	CND	Container, commercial highway lift	CH
X12 Definition:		*Container*	
CY	CYL	Cylinder	CL
DB	DUF	Dufflebag	
X12 Definition:		*Duffle Bag*	
DR	DRM	Drum	DR
EC	CNE	Engine Container	CH
ED	CRD	Engine cradle or dolly	
X12 Definition:		*Cradle*	
EN	ENV	Envelope	EV
FK	TRK	Footlocker (Trunk)	
X12 Definition:		*Trunk and Chest*	
HA	HPR	Hamper	
KE	KEG	Keg	KE

LP	PLL	*	463L Pallet	PF
LS	LSE		Loose, not packed	
X12 Definition:			*Loose*	
MW	CNF		Multiwall container secured to warehouse plt	CH
X12 Definition:			*Multiwall Container Secured to Warehouse Pallet*	
MX	MXD		Mixed	
X12 Definition:			*Mixed Type Pack*	
PC	PCS		Piece	PC
X12 Definition:			*Pieces*	
PL	PAL		Pail	PA
PT	PLT		Palletized unit load other than code MW	PL
X12 Definition:			*Pallet*	
RL	REL		Reel	RE
RO	ROL		Roll	RL
RT	WHE		RORO (roll-off, roll-on)	
X12 Definition:			*On Own Wheel*	
SA	SAK		Sack, paper	SJ
X12 Definition:			*Sack*	
SB	SKE		Skid, box	
X12 Definition:			*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		Unitized (use RT for unitized cargo on RORO)	
X12 Definition:			*Unit*	
VC	VPK		Van chassis	
X12 Definition:			*Van Pack*	
VE	VEH		Vehicle	NV
VO	VOC		Vehicle in Operating Condition	ZZ
VS	TBN		SEAVAN - TOTE	TE
X12 Definition:			*Tote Bin*	
WR	WRP		Wrapped	WR
X1	CNX		CONEX (Gov't owned container)	CH
X12 Definition:			*CONEX - Container Express*	
YB	MLV		MILVAN	CH
ZB	SVN		SEAVAN	CH

* Migration Code