Department
of
Defense

DoD Transportation Electronic Business (DTEB) Convention

ASC X12 Transaction Set 220 Logistics Service Response (Version 004010) – DTCI Transportation Service Response

VERSION 0

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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 a response to a transportation service request in support of the Defense Transportation Coordination Initiative (DTCI) program.

For further information about the DTEB program, contact the following:
United States Transportation Command
TCJ6-AD
508 Scott Drive
Scott Air Force Base, IL 62225-7001

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

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

[Note: To access the publication, you must have an Information Tool Suite (ITS) account.]

Who Needs to Use This Document

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

Why Use a Convention

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

Contents

Additional sections are included in this document.

- Section 2.0, Control Segments, identifies the specific data requirements for formatting the EDI interchange control segments that envelop all EDI transactions.
- Section 3.0, Standard Implementation Convention, lists the layout of the target transaction set by segment and data element. It is presented in the standard publishing format prescribed by the Defense Information Systems Agency (DISA).
- Section 4.0, IC Element Matrix, identifies the application data elements trading partners need to exchange. This section can be used to map an existing application database into the transaction set.
- Section 5.0 , when present, contains an example of the EDI transactions.
- Section 6.0, Application Code Lists, when present, identifies the DoD codes that trading partners need to exchange. This section augments the matrix presented in Section 4.0.

Section 2.0

CONTROL SEGMENTS

Overview

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

Purpose

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

Contents

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

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

Special Instructions

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

DATA ELEMENT SEPARATOR

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

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

SEGMENT TERMINATOR

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

COMPONENT ELEMENT SEPARATOR

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

GS01 CODE VALUE

Use the appropriate code value from data element 479 in GS01 of the control envelope for indicating the transaction set being transmitted. For example, to exchange an implementation convention for Transaction Set 220, the correct code value for GS01 is 'AH' denoting Logistics Service Response (220).

X12 PUBLICATION

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

Interchange Control Envelope Control Segments

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

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Segment: ISA Interchange Control Header

Usage: Mandatory

Max Use: 1

Purpose: To start and identify an interchange of zero or more functional groups and interchange-related control segments

DATA ELEMENT SUMMARY

	Ref Des	Data Element	Name	Attributes
M	**ISA01**	**I01**	**Authorization Information Qualifier** Code to identify the type of information in the Authorized Information **Code** — **Definition** 00 — No Authorization Information Present (No Meaningful Information in I02)	**M ID 2/2**
M	**ISA02**	**I02**	**Authorization Information** Information used for additional clarification or authorization of the interchange sender or the data in the interchange; the type of information is set by the Authorization Information Qualifier (I01) For code value '00' in ISA01, fill with zeros.	**M AN 10/10**
M	**ISA03**	**I03**	**Security Information Qualifier** Code to identify the type of information in the Security Information **Code** — **Definition** 00 — No Security Information Present (No Meaningful Information in I04)	**M ID 2/2**
M	**ISA04**	**I04**	**Security Information** This is used for identifying the security Information about the interchange sender or the data in the interchange; the type of information is set by the Security Information Qualifier (I03). For code value '00' in ISA03, fill with zeros.	**M AN 10/10**

M ISA05 I05 Interchange ID Qualifier M ID 2/2
Qualifier to designate the system/method of code structure used to designate the sender or receiver ID element being qualified

Select appropriate code value for sender from 4010 X12 code list for data element I05. For Department of Defense Agency Address Code (DoDAAC) use code value '10'.

M ISA06 I06 Interchange Sender ID M AN 15/15
Identification code published by the sender for other parties to use as the receiver ID to route data to them; the sender always codes this value in the sender ID element.

DoD activities use DoDAAC or other code coordinated with trading partners. Non-DoD activities use identification code qualified by ISA05 and coordinated with network value added network (VAN) Administrator.

M ISA07 I05 Interchange ID Qualifier M ID 2/2
Qualifier to designate the system/method of code structure used to designate the sender or receiver ID element being qualified

Select appropriate code value for receiver from 4010 X12 code list for data element I05. For DoDAAC use code value '10'.

M ISA08 I07 Interchange Receiver ID M AN 15/15
Identification code published by the receiver of the data; When sending, it is used by the sender as their sending ID, thus other parties sending to them will use this as a receiving ID to route data to them.

DoD activities use DoDAAC or other code coordinated with trading partners. Non-DoD activities use identification code qualified by ISA05 and coordinated with VAN Administrator.

M ISA09 I08 Interchange Date **M DT 6/6**
Date of the interchange

Date in YYMMDD format assigned by translation software

M ISA10 I09 Interchange Time **M DT 4/4**
Time of the interchange

Time in HHMM format assigned by translation software

M ISA11 I10 Interchange Control Standards **M ID 1/1**
Code to identify the agency responsible for the control standard used by the message that is enclosed by the interchange header and trailer

Code	Definition
U	U.S. EDI Community of ASC X12, TDCC, and UCS

M ISA12 I11 Interchange Control Version Number **M ID 5/5**
This version number covers the interchange Control segments.

Code	Definition
00401	Draft Standards for Trial Use Approved for Publication by ASC 12 Procedures Review Board through October 1997

Version/release of control segment, as agreed upon by the trading partners

M ISA13 I12 Interchange Control Number **M N0 9/9**
A control number assigned by the interchange sender

Number assigned by translation software. The sender, receiver, and all third parties should be able to maintain an audit trail of interchanges using this number.

M ISA14 I13 Acknowledgment Requested **M ID 1/1**
Code sent by the sender to request an interchange acknowledgment (TA1)

Code	Definition
0	No Acknowledgment Requested
1	Interchange Acknowledgment Requested

Send code agreed upon by trading partners.

M ISA15 I14 Usage Indicator M ID 1/1

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

Code	Definition
I	Information
P	Production Data
T	Test Data

Use code value as agreed upon by trading partners.

M ISA16 I15 Component Element Separator AN 1/1

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

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

Segment: GS Functional Group Header

Usage: Mandatory

Max Use: 1

Purpose: To indicate the beginning of a functional group and to provide control information

DATA ELEMENT SUMMARY

	Ref Des	Data Element	Name	Attributes
M	**GS01**	**479**	**Functional Identifier Code** Code identifying a group of application related transaction sets Use the appropriate code value from data element 479 in GS01 of the control envelope for indicating the transaction set being transmitted. For example, to exchange an implementation convention for Transaction Set 220, the correct code value for GS01 is 'AH' denoting Logistics Service Response (220).	**M ID 2/2**
M	**GS02**	**142**	**Application Sender's Code** Code identifying party sending transmission; codes agreed to by trading partners Typically, a sender will use different codes here to uniquely identify each implementation convention (IC) for a particular transaction set. DoD activities use DoDAAC or other code coordinated with trading partners. Non-DoD activities use identification code assigned by DoD, which for increased security should differ from that used in ISA06.	**M AN 2/15**
M	**GS03**	**124**	**Application Receiver's Code** Code to identify the type of information in the Security Information DoD activities use DoDAAC or other code coordinated with trading partners. Non-DoD activities use identification code assigned by DoD, which for increased security should differ from that used in ISA08	**M AN 2/15**

M GS04 373 Date **M DT 8/8**
Date expressed as CCYYMMDD.
Information about the interchange sender or the data in the interchange; the type of information is set by the Security Information Qualifier (I03)

Date assigned by translation software

M GS05 337 Time **M 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 D = decimal seconds; decimal seconds are expressed as follows: D = tenths (0-9) and DD = hundredths (00-99)

Time expressed in HHMM format assigned by translation software

M GS06 28 Group Control Number **M N0 1/9**
Assigned number originated and maintained by the sender

Number assigned by translation software. The sender, receiver, and all third parties should be able to maintain an audit trail of interchanges using this number.

M GS07 455 Responsible Agency Code **M ID 1/1**
Code used in conjunction with Data Element 480 to identify the issuer of the standard.

Code	Definition
X	Accredited Standards Committee X12

M GS08 480 Version / Release / Industry Identified Code **M AN 6/6**
Code indicating the version, release, subrelease, and industry identifier of the EDI standard being used, including the GS and GE segments; if code in DE455 in GS segment is X, then in DE 480 positions 1-3 are the version number; positions 4-6 are the release and subrelease, level of the version; and positions 7-12 are the industry or trade association identifiers (optionally assigned by the user), if code in DE455 in GS segment is T, then other formats are allowed.

Code	Definition
004010	Draft Standard Approved for Publication by ASC X12 Procedures Review Board through October 1997

This is the version/release for all transactions within a functional group. See X12 4010 Dictionary for source code list. Note: optional positions 7-12 are not used by the DTEB community.

Segment: GE Functional Group Trailer

Usage: Mandatory

Max Use: 1

Purpose: To indicate the end of a functional group and to provide control information

DATA ELEMENT SUMMARY

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

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Segment: IEA Interchange Control Trailer

Usage: Mandatory

Max Use: 1

Purpose: To define the end of an interchange of zero or more functional groups and interchange related control segments

DATA ELEMENT SUMMARY

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

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Section 3.0

STANDARD IMPLEMENTATION CONVENTION

This section presents the DoD's convention for interpreting Transportation Service Response using the *ASC* X12.Transaction Set 220 Logistics Service Response (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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220 Logistics Service Response

Functional Group ID=AH

Introduction:

This Draft Standard for Trial Use contains the format and establishes the data contents of the Logistics Service Response Transaction Set (220) for use within the context of an Electronic Data Interchange (EDI) environment. This set can be used by a logistics related organization to transmit data to a shipper in response to a logistics service request.

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		n1
M	030	B9A	Service Request	M	7		
Must Use	040	L11	Business Instructions and Reference Number	O	99		
Not Used	050	G62	Date/Time	O	5		
Must Use	060	MS3	Interline Information	O	99		
	070	NTE	Note/Special Instruction	O	10		
			LOOP ID - 0500			99	
Must Use	080	LCD	Place/Location Description	O	1		n2
Not Used	090	ITA	Allowance, Charge or Service	O	999		
Not Used	100	L8	Line Item Subtotal	O	999		
	110	L9	Charge Detail	O	999		
Must Use	120	L3	Total Weight and Charges	O	999		
			LOOP ID - 1000			99	
	130	N7	Equipment Details	O	1		
Not Used	140	N7A	Accessorial Equipment Details	O	1		
Not Used	150	N7B	Additional Equipment Details	O	1		
Not Used	160	MEA	Measurements	O	1		
Not Used	170	M7	Seal Numbers	O	2		

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		n3
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		
Not Used	090	PER	Administrative Communications Contact	O	3		
			LOOP ID - 2200			999	

Not Used	100	LX	Assigned Number	O	1		n4
Not Used	110	LCT	Logistics Container Tracking Information	O	1		
Not Used	120	MAN	Marks and Numbers	O	10		
Not Used	130	AT5	Bill of Lading Handling Requirements	O	6		
Not Used	140	AMT	Monetary Amount	O	1		
Not Used	150	L11	Business Instructions and Reference Number	O	10		
			LOOP ID - 2250			999	
Not Used	160	LAD	Lading Detail	O	1		n5
Not Used	170	PO4	Item Physical Details	O	1		
Not Used	180	G69	Line Item Detail - Description	O	99		
Not Used	190	AT5	Bill of Lading Handling Requirements	O	6		
Not Used	200	AMT	Monetary Amount	O	1		
Not Used	210	L11	Business Instructions and Reference Number	O	10		
M	220	SE	Transaction Set Trailer	M	1		

Transaction Set Notes

1. The reference number in the B9 segment, element 01 must be a unique logistics identification number.
2. The 0500 Loop provides rate information back to shipper.
3. The 2000 Loop defines pickup or delivery information for an order.
4. The 2200 Loop provides details for tracking containers within an order.
5. The 2250 Loop provides item details.

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

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 220 Logistics Service Response [1-01] Logistics Service Response	**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 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] DTCI Coordinator Internal Order Number Enter the internal order number assigned by the DTCI coordinator's transportation management system.	**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 Response 01 Cancellation [2-02] Cancellation 04 Change [2-02] Change Use '04' to denote Change or Additional Information transmitted subsequent to the original response	**M ID 2/2**
X	**B903**	**146**	**Shipment Method of Payment** Refer to 004010 Data Element Dictionary for acceptable code values.	**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 CS Carrier Selection [3-01] Carrier Selection	**M ID 2/2**

Segment: **L11** **Business Instructions and Reference Number**
Position: 040
Loop:
Level: Heading
Usage: Optional (Must Use)
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 - Shipper Offer Record Number
Use this segment to indicate the offer record number that appeared in the B901 of the shipper's 219A request. Repeat the segment for as many offers as this transaction is responding to. Sequence the offer record numbers according to desired trailer load sequence (i.e., load last load first, first load last, etc.).

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 [4-01] Shipper Offer Record Number Enter the unique logistics identification number assigned by the shipper. This will equal the number submitted in the B901 of a corresponding X12 219 transportation offer.	**X AN 1/30**
>>	**L1102**	**128**	**Reference Identification Qualifier** Code qualifying the Reference Identification [4-02] Shipper Offer Record Number Qualifier CR Customer Reference Number [4-02] Customer Reference Number Use 'CR' to denote Shipper Offer Record Number	**X ID 2/3**
X	**L1103**	**352**	**Description**	**X AN 1/80**

Segment: **MS3** **Interline Information**
Position: 060
Loop:
Level: Heading
Usage: Optional (Must Use)
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 - Carrier Assigned to Shipment

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
M	**MS301**	**140**	**Standard Carrier Alpha Code** Standard Carrier Alpha Code [5-01] Standard Carrier Alpha Code (SCAC) The SCAC of the carrier to which the DTCI coordinator assigned the shipment will appear here SOURCE: Directory of Standard Multi-Model Carriers and Tariff Agents Codes (SCAC-STAC), NMF 101 Series available from National Motor Freight Association, Inc.	**M ID 2/4**
M	**MS302**	**133**	**Routing Sequence Code** Code describing the relationship of a carrier to a specific shipment movement [5-02] Routing Sequence Code B Origin/Delivery Carrier (Any Mode) [5-02] Origin/Delivery Carrier (Any Mode)	**M ID 1/2**
X	**MS303**	**19**	**City Name**	**X AN 2/30**
>>	**MS304**	**91**	**Transportation Method/Type Code** Code specifying the method or type of transportation for the shipment [5-04] Transportation Method/Type Code A Air [5-04] Air AE Air Express [5-04] Air Express AF Air Freight [5-04] Air Freight DW Driveaway, Truckaway, Towaway DoD policy includes all three terms in one. They mean collectively, a transportation method whereby a vehicle is moved under its own power by a driver, or loaded into or upon a carrier's equipment, or towed by carrier's equipment [5-04] Driveaway, Truckaway, Towaway J Motor [5-04] Motor Use 'J' to denote Motor, Truckload L Contract Carrier [5-04] Contract Carrier Use 'L' to denote Scheduled/Dedicated Trucks LT Less Than Trailer Load (LTL) [5-04] Less Than Trailer Load (LTL) Use 'LT' to denote Motor, Less Than Truckload	**O ID 1/2**

			R	Rail		
				[5-04] Rail Use 'R' to denote Rail, Carload		
			X	Intermodal (Piggyback)		
				[5-04] Intermodal (Piggyback)		
X	**MS305**	**156**	**State or Province Code**		**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: [6] NTE SEGMENT - Number of Vehicles Requested
SEGMENT CONDITION: Use when requesting truckload moves and the shipper knows the number trucks required for the move.

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
>>	**NTE01**	**363**	**Note Reference Code** Code identifying the functional area or purpose for which the note applies [6-01] Number of Vehicles Requested Qualifier EED Equipment Description [6-01] Equipment Description Use 'EED' to denote Number of Vehicles Requested	**O ID 3/3**
M	**NTE02**	**352**	**Description** A free-form description to clarify the related data elements and their content [6-02] Number of Vehicles Requested Enter numeric value of the number of vehicles being requested.	**M AN 1/80**

Segment: **LCD** **Place/Location Description**
Position: 080
Loop: 0500 Optional (Must Use)
Level: Heading
Usage: Optional (Must Use)
Max Use: 1
Purpose: To further define and describe a place or location
Syntax Notes: **1** If either LCD05 or LCD06 is present, then the other is required.
Semantic Notes:
Comments:
Notes: [7] LCD SEGMENT - Mandatory Loop Header
Segment required because L3 segment is used.

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
M	**LCD01**	**350**	**Assigned Identification**	**M**	**AN 1/20**
			Alphanumeric characters assigned for differentiation within a transaction set		
			[7-01] Mandatory Element		
X	**LCD02**	**98**	**Entity Identifier Code**	**O**	**ID 2/3**
			Refer to 004010 Data Element Dictionary for acceptable code values.		
X	**LCD03**	**306**	**Action Code**	**O**	**ID 1/2**
			Refer to 004010 Data Element Dictionary for acceptable code values.		
X	**LCD04**	**373**	**Date**	**O**	**DT 8/8**
X	**LCD05**	**66**	**Identification Code Qualifier**	**X**	**ID 1/2**
			Refer to 004010 Data Element Dictionary for acceptable code values.		
X	**LCD06**	**67**	**Identification Code**	**X**	**AN 2/80**

Segment: **L9** **Charge Detail**
Position: 110
Loop: 0500 Optional (Must Use)
Level: Heading
Usage: Optional
Max Use: 999
Purpose: To specify special charge code and the associated monetary amount
Syntax Notes:
Semantic Notes: **1** L902 is the transportation charge for a special service performed, expressed in the standard monetary denomination for the currency specified.
Comments:
Notes: [8] L9 SEGMENT - Accessorial/Special Handling Charge Detail
SEGMENT CONDITION: If available, data must be sent

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
M	**L901**	**150**	**Special Charge or Allowance Code** Code identifying type of special charge or allowance [8-01] Accessorial/Special Handling Service Code Use this segment to report the type and cost of each accessorial/special handling service EXCEPT the fuel surcharge (fuel surcharge appears in the L307). Repeat the segment as needed for each accessorial/special handling service. SOURCE: Reference Section 6.0 of this IC for code values using applicable Accessorial/Special Handling Charge Detail table. Common code values associated with multiple definitions prevents documentation of the entire sub-set. Sample Values: AAS,ARG,BLK,CCS Refer to 004010 Data Element Dictionary for acceptable code values.	**M ID 3/3**
M	**L902**	**782**	**Monetary Amount** Monetary amount [8-02] Accessorial/Special Handling Service Amount The cost of the accessorial service that will be provided for the shipment. Sample Values: AAS,ARG,BLK,CCS	**M R 1/18**

Segment: **L3** **Total Weight and Charges**
Position: 120
Loop: 0500 Optional (Must Use)
Level: Heading
Usage: Optional (Must Use)
Max Use: 999
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: [9] L3 SEGMENT - Shipment Weight/Rate Totals

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
>>	**L301**	**81**	**Weight** Numeric value of weight [9-01] Gross Weight	**X R 1/10**
>>	**L302**	**187**	**Weight Qualifier** Code defining the type of weight [9-02] Weight Qualifier Use code value 'G' only if requesting movement for a stuffed container or loaded trailer. FR Freight Weight [9-02] Freight Weight G Gross Weight [9-02] Gross Weight	**X ID 1/2**
>>	**L303**	**60**	**Freight Rate** Rate that applies to the specific commodity [9-03] Rate Enter the coordinator's rate for the shipment, based on either cost per hundredweight or cost per mile. The final rate invoiced may be revised as the coordinator performs further shipment optimization and consolidation.	**X R 1/9**
>>	**L304**	**122**	**Rate/Value Qualifier** Code qualifying how to extend charges or interpret value [9-04] Rate Qualifier CW Per Hundred Weight Describes a transportation rate that applies to every one hundred pounds of total weight of an individual shipment [9-04] Per Hundred Weight LB Per Pound [9-04] Per Pound PM Per Mile [9-04] Per Mile	**X ID 2/2**
>>	**L305**	**58**	**Charge** For a line item: freight or special charge; for the total invoice: the total charges -- expressed in the standard monetary denomination for the currency specified [9-05] Estimated Shipment Charge The total estimated charge for the shipment, including cost per mile/hundredweight, mileage, accessorial service charges, and fuel surcharge. The final cost invoiced may be revised as the coordinator performs further	**O N2 1/12**

			shipment optimization and consolidation.		
	L306	**191**	**Advances** Incidental charges occurring during transportation which are not generally considered to be freight charges (examples - stop charges, diversion and reconsignment, icing) expressed in the standard monetary denomination for the currency specified [9-06] Accessorial Service Charge Total The total cost of accessorial services to be provided (should equal the sum of each occurrence of the previous L902 data element). Do not use to report fuel surcharge -- use L307. ELEMENT CONDITION: If available, data must be sent	**O**	**N2 1/9**
	L307	**117**	**Prepaid Amount** Money paid at point of origin (usually by shipper) expressed in the standard monetary denomination for the currency specified [9-07] Fuel Surcharge ELEMENT CONDITION: If applicable, report fuel surcharge for shipment here. Include as part of total shipment charge in L305.	**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**
X	**L309**	**183**	**Volume**	**X**	**R 1/8**
X	**L310**	**184**	**Volume Unit Qualifier** Refer to 004010 Data Element Dictionary for acceptable code values.	**X**	**ID 1/1**
>>	**L311**	**80**	**Lading Quantity** Number of units (pieces) of the lading commodity [9-11] Lading Quantity The number of shipment units in the 219A offer.	**O**	**N0 1/7**
X	**L312**	**188**	**Weight Unit Code** Refer to 004010 Data Element Dictionary for acceptable code values.	**O**	**ID 1/1**
X	**L313**	**171**	**Tariff Number**	**O**	**AN 1/7**
X	**L314**	**74**	**Declared Value**	**X**	**N2 2/12**
X	**L315**	**122**	**Rate/Value Qualifier** Refer to 004010 Data Element Dictionary for acceptable code values.	**X**	**ID 2/2**

Segment: **N7** **Equipment Details**
Position: 130
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 - Special Equipment Request
LOOP CONDITION: The DTCI coordinator is to provide equipment details if known when responding to a 219 service request.

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
>>	**N701**	**206**	**Equipment Initial**	**O**	**AN 1/4**
			Prefix or alphabetic part of an equipment unit's identifying number		
			[10-01] Equipment Initial The equipment initials. If directly loading a pooled trailer, this field value should match that provided by the shipper in the X12 219 transporation request, unless other arrangements have been made between the shipper and the coordinator. SOURCE: IATA Unit Load Devices Manual available from International Air Transport Association		
M	**N702**	**207**	**Equipment Number**	**M**	**AN 1/10**
			Sequencing or serial part of an equipment unit's identifying number (pure numeric form for equipment number is preferred)		
			[10-02] Equipment Number The serial number of the equipment to be used. For direct loads from a trailer pool, enter the equipment number provided by the shipper.		
	N703	**81**	**Weight**	**X**	**R 1/10**
			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. ELEMENT CONDITION: If available, data must be sent		
	N704	**187**	**Weight Qualifier**	**X**	**ID 1/2**
			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	**N705**	**167**	**Tare Weight**	**X**	**N0 3/8**
X	**N706**	**232**	**Weight Allowance**	**O**	**N0 2/6**
X	**N707**	**205**	**Dunnage**	**O**	**N0 1/6**
	N708	**183**	**Volume**	**X**	**R 1/8**
			Value of volumetric measure		
			[10-08] Equipment Cube ELEMENT CONDITION: If available, data must be sent		
	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. ELEMENT CONDITION: If necessary, indicate minimum and maximum temperature. 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 ELEMENT CONDITION: If available, data must be sent		
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 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 1/2" 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
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: Use this S5 loop to describe shipment pickup information and pickup location. Not used when transaction purpose code is '01' (cancellation). Currently used only for shippers using GFM
[17] 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. Currently used only for shippers using GFM.

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
M	**S501**	**165**	**Stop Sequence Number** 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. [17-01] 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**
M	**S502**	**163**	**Stop Reason Code** Code specifying the reason for the stop [11-02] Stop Reason Code [17-02] Stop Reason Code LD Load [11-02] Load UL Unload [17-02] Unload	**M**	**ID 2/2**
X	**S503**	**81**	**Weight**	**X**	**R 1/10**
X	**S504**	**188**	**Weight Unit Code** Refer to 004010 Data Element Dictionary for acceptable code values.	**X**	**ID 1/1**
X	**S505**	**382**	**Number of Units Shipped**	**X**	**R 1/10**
X	**S506**	**355**	**Unit or Basis for Measurement Code** Refer to 004010 Data Element Dictionary for acceptable code values.	**X**	**ID 2/2**
X	**S507**	**183**	**Volume**	**X**	**R 1/8**
X	**S508**	**184**	**Volume Unit Qualifier** Refer to 004010 Data Element Dictionary for acceptable code values.	**X**	**ID 1/1**
X	**S509**	**352**	**Description**	**O**	**AN 1/80**
X	**S510**	**154**	**Standard Point Location Code**	**O**	**ID 6/9**
X	**S511**	**190**	**Accomplish Code** Refer to 004010 Data Element Dictionary for acceptable code values.	**O**	**ID 1/1**

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 - Scheduled Pick-up Date
[18] G62 SEGMENT - Mandatory Delivery Date

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
>>	**G6201**	**432**	**Date Qualifier** Code specifying type of date [12-01] Scheduled Pick-up Date Qualifier [18-01] Mandatory Delivery Date Qualifier 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 [18-01] Delivered By This Date Use '67' to denote Mandatory Delivery Date	**X**	**ID 2/2**
>>	**G6202**	**373**	**Date** Date expressed as CCYYMMDD [12-02] Scheduled Pick-up Date [18-02] Mandatory Delivery Date	**X**	**DT 8/8**
	G6203	**176**	**Time Qualifier** Code specifying the reported time [12-03] Time Qualifier ELEMENT CONDITION: If available, data must be sent [18-03] Time Qualifier ELEMENT CONDITION: Required if G6204 is used. G Earliest Requested Deliver Time [18-03] Earliest Requested Deliver Time L Latest Requested Delivery Time [18-03] Latest Requested Delivery Time U Scheduled Pick Up Time [12-03] Scheduled Pick Up Time X Scheduled Delivery Time [18-03] Scheduled Delivery Time	**X**	**ID 1/2**
	G6204	**337**	**Time** Time expressed in 24-hour clock time as follows: HHMM, or HHMMSS, or HHMMSSD, or HHMMSSDD, where H = hours (00-23), M = minutes (00-59), S = integer seconds (00-59) and DD = decimal seconds; decimal seconds are expressed as follows: D = tenths (0-9) and DD = hundredths (00-99) [12-04] Scheduled Pick-up Time Format is 'HHMM'. ELEMENT CONDITION: If available, data must be sent [18-04] Mandatory Delivery Date Pickup Time Format is 'HHMM'. ELEMENT CONDITION: If available, data must be sent	**X**	**TM 4/8**

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
[18-05] Time Code
ELEMENT CONDITION: Required if G6204 is used.
SOURCE: ISO 8601 available from American National Standards Institute

LT	Local Time
	[12-05] Local Time [18-05] Local Time
UT	Universal Time Coordinate
	[12-05] Universal Time Coordinate [18-05] 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
[19] 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 [19-01] Ship-to (ST) Name Qualifier SF Ship From [13-01] Ship From ST Ship To [19-01] Ship To	**M ID 2/3**
>>	**N102**	**93**	**Name** Free-form name [13-02] Origin Name ELEMENT CONDITION: If available, data must be sent [19-02] 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 [19-03] DoDAAC/CAGE Qualifier 10 Department of Defense Activity Address Code (DODAAC) [13-03] Department of Defense Activity Address Code (DODAAC) [19-03] Department of Defense Activity Address Code (DODAAC) 33 Commercial and Government Entity (CAGE) [13-03] Commercial and Government Entity (CAGE) [19-03] 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 [19-04] Ship-to (ST) Identification Code	**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.
[20] N2 SEGMENT - Additional Ship-to (ST) Name
SEGMENT CONDITION: Use when additional Ship-to (ST) Name applies.

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
M	**N201**	**93**	**Name** Free-form name [14-01] Additional Origin Name [20-01] Additional Ship-to (ST) Name	**M**	**AN 1/60**
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
[21] 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 [21-01] 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
[22] N4 SEGMENT - Ship-to (ST) City Name and State/ZIP Codes

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
>>	**N401**	**19**	**City Name**	**O**	**AN 2/30**
			Free-form text for city name		
			[16-01] Origin City Name [22-01] Ship-to (ST) City Name		
>>	**N402**	**156**	**State or Province Code**	**O**	**ID 2/2**
			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 [22-02] Ship-to (ST) State Code SOURCE: National Zip Code and Post Office Directory available from U.S. Postal Service National Information Data Center		
>>	**N403**	**116**	**Postal Code**	**O**	**ID 3/15**
			Code defining international postal zone code excluding punctuation and blanks (zip code for United States)		
			[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 [22-03] 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		
X	**N404**	**26**	**Country Code**	**O**	**ID 2/3**
X	**N405**	**309**	**Location Qualifier**	**X**	**ID 1/2**
			Refer to 004010 Data Element Dictionary for acceptable code values.		
X	**N406**	**310**	**Location Identifier**	**O**	**AN 1/30**

Segment: **SE** **Transaction Set Trailer**
Position: 220
Loop:
Level: Detail
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: [23] SE SEGMENT - DTCI Transportation Service Response 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 [23-01] 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 [23-02] 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 - DTCI Transportation Service Response Header** Use this implementation convention (IC) for Defense Transportation Coordination Iniative (DTCI) Transportation Service Response.	M			1	010	M	1								
1-01		Transaction Set Identifier Code 220 - Logistics Service Response	M	ID	3/3	1	010	M	1				ST01	143	M	ID	3/3
1-02		Transaction Set Control Number The application and structure of the control number must be agreed upon between trading partners. (For example, some applications use all nine digits where the first five might indicate a group control number and the last four represent the sequence of the transaction set within the functional group. Also, the entire nine digit field may simply represent the sequence of the transaction set generated by a trading partner.)	M	AN	4/9	1	010	M	1				ST02	329	M	AN	4/9
2		**B9 SEGMENT - Record Number/Purpose/Shipment Method**	M			1	020	M	1								
2-01		DTCI Coordinator Internal Order Number Enter the internal order number assigned by the DTCI coordinator's transportation management system.	M	AN	1/30	1	020	M	1				B901	127	M	AN	1/30
2-02		Transaction Set Purpose Code 00 - Original *Use '00' to denote Original Response.* 01 - Cancellation 04 - Change *Use '04' to denote Change or Additional Information transmitted subsequent to the original response.*	M	ID	2/2	1	020	M	1				B902	353	M	ID	2/2
3		**B9A SEGMENT - Service Request Code**	M			1	030	M	7								
3-01		Service Request Code CS - Carrier Selection	M	ID	2/2	1	030	M	7				B9A01	1644	M	ID	2/2
4		**L11 SEGMENT - Shipper Offer Record Number** Use this segment to indicate the offer record number that appeared in the B901 of the shipper's 219A request. Repeat the segment for as many offers as this transaction is responding to. Sequence the offer record numbers according to desired trailer load sequence (i.e., load last load first, first load last, etc.).	M			1	040	O	99								
						See X12 Standards for explanation of syntax notes. R0103P0102											

DoD INFORMATION						X12 SEGMENT INFORMATION							X12 ELEMENT INFORMATION				
Index	DG	Data Name Notes and Codes	DoD Recommended Attributes			Tabl	Pos	Req Des	Max Use	Lp Rpt	Lp Lvl	Lp ID	Ref Des	DE #	Attributes		
4-01		Shipper Offer Record Number Enter the unique logistics identification number assigned by the shipper. This will equal the number submitted in the B901 of a corresponding X12 219 transportation offer.	M	AN	1/30	1	040	O	99				L1101	127	C	AN	1/30
4-02		Shipper Offer Record Number Qualifier CR - Customer Reference Number *Use 'CR' to denote Shipper Offer Record Number.*	M	ID	2/2	1	040	O	99				L1102	128	C	ID	2/3
5		**MS3 SEGMENT - Carrier Assigned to Shipment**	M			1	060	O	99								
						See X12 Standards for explanation of syntax notes. C0503											
5-01		Standard Carrier Alpha Code (SCAC) The SCAC of the carrier to which the DTCI coordinator assigned the shipment will appear here 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	060	O	99				MS301	140	M	ID	2/4
5-02		Routing Sequence Code B - Origin/Delivery Carrier (Any Mode)	M	ID	1/1	1	060	O	99				MS302	133	M	ID	1/2
5-04		Transportation Method/Type Code A - Air AE - Air Express AF - Air Freight DW - Driveaway, Truckaway, Towaway J - Motor *Use 'J' to denote Motor, Truckload.* L - Contract Carrier *Use 'L' to denote Scheduled/Dedicated Trucks.* LT - Less Than Trailer Load (LTL) *Use 'LT' to denote Motor, Less Than Truckload.* R - Rail *Use 'R' to denote Rail, Carload.* X - Intermodal (Piggyback)	M	ID	1/2	1	060	O	99				MS304	91	O	ID	1/2
6		**NTE SEGMENT - Number of Vehicles Requested** SEGMENT CONDITION: Use when requesting truckload moves and the shipper knows the number trucks required for the move.	C			1	070	O	10								

DoD INFORMATION						X12 SEGMENT INFORMATION							X12 ELEMENT INFORMATION				
Index	DG	Data Name Notes and Codes	DoD Recommended Attributes			Tabl	Pos	Req Des	Max Use	Lp Rpt	Lp Lvl	Lp ID	Ref Des	DE #	Attributes		
6-01		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
6-02		Number of Vehicles Requested Enter numeric value of the number of vehicles being requested.	M	AN	1/2	1	070	O	10				NTE02	352	M	AN	1/80
7		**LCD SEGMENT - Mandatory Loop Header** Segment required because L3 segment is used.	M			1	080	O	1	99	1	0500	See X12 Standards for explanation of syntax notes. P0506				
7-01		Mandatory Element Sample Values: Z	M	AN	1/1	1	080	O	1	99	1	0500	LCD01	350	M	AN	1/20
8		**L9 SEGMENT - Accessorial/Special Handling Charge Detail** SEGMENT CONDITION: If available, data must be sent	C			1	110	O	999	99	1	0500					
8-01		Accessorial/Special Handling Service Code Use this segment to report the type and cost of each accessorial/special handling service EXCEPT the fuel surcharge (fuel surcharge appears in the L307). Repeat the segment as needed for each accessorial/special handling service. SOURCE: Reference Section 6.0 of this IC for code values using applicable Accessorial/Special Handling Charge Detail table. Common code values associated with multiple definitions prevents documentation of the entire sub-set. Sample Values: AAS, ARG, BLK, CCS	M	ID	3/3	1	110	O	999	99	1	0500	L901	150	M	ID	3/3
8-02		Accessorial/Special Handling Service Amount The cost of the accessorial service that will be provided for the shipment.	M	R	1/9	1	110	O	999	99	1	0500	L902	782	M	R	1/18
9		**L3 SEGMENT - Shipment Weight/Rate Totals**	M			1	120	O	999	99	1	0500	See X12 Standards for explanation of syntax notes. P0102P0304P0910C1201P1415				
9-01		Gross Weight	M	R	1/10	1	120	O	999	99	1	0500	L301	81	C	R	1/10
9-02		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	1	120	O	999	99	1	0500	L302	187	C	ID	1/2

DoD INFORMATION						X12 SEGMENT INFORMATION							X12 ELEMENT INFORMATION				
Index	DG	Data Name Notes and Codes	DoD Recommended Attributes			Tabl	Pos	Req Des	Max Use	Lp Rpt	Lp Lvl	Lp ID	Ref Des	DE #	Attributes		
9-03		Rate	M	R	1/9	1	120	O	999	99	1	0500	L303	60	C	R	1/9
		Enter the coordinator's rate for the shipment, based on either cost per hundredweight or cost per mile. The final rate invoiced may be revised as the coordinator performs further shipment optimization and consolidation.															
9-04		Rate Qualifier	M	ID	2/2	1	120	O	999	99	1	0500	L304	122	C	ID	2/2
		CW - Per Hundred Weight LB - Per Pound PM - Per Mile															
9-05		Estimated Shipment Charge	M	N2	1/12	1	120	O	999	99	1	0500	L305	58	O	N2	1/12
		The total estimated charge for the shipment, including cost per mile/hundredweight, mileage, accessorial service charges, and fuel surcharge. The final cost invoiced may be revised as the coordinator performs further shipment optimization and consolidation.															
9-06		Accessorial Service Charge Total	C	N2	1/9	1	120	O	999	99	1	0500	L306	191	O	N2	1/9
		The total cost of accessorial services to be provided (should equal the sum of each occurrence of the previous L902 data element). Do not use to report fuel surcharge -- use L307. ELEMENT CONDITION: If available, data must be sent															
9-07		Fuel Surcharge	C	N2	1/9	1	120	O	999	99	1	0500	L307	117	O	N2	1/9
		ELEMENT CONDITION: If applicable, report fuel surcharge for shipment here. Include as part of total shipment charge in L305.															
9-11		Lading Quantity	M	N0	1/7	1	120	O	999	99	1	0500	L311	80	O	N0	1/7
		The number of shipment units in the 219A offer.															
10		**N7 SEGMENT - Special Equipment Request**	C			1	130	O	1	99	1	1000					
		LOOP CONDITION: The DTCI coordinator is to provide equipment details if known when responding to a 219 service request.							See X12 Standards for explanation of syntax notes. P0304P0516P0809								
10-01		Equipment Initial	M	AN	1/4	1	130	O	1	99	1	1000	N701	206	O	AN	1/4
		The equipment initials. If directly loading a pooled trailer, this field value should match that provided by the shipper in the X12 219 transporation request, unless other arrangements have been made between the shipper and the coordinator. SOURCE: IATA Unit Load Devices Manual available from International Air Transport Association															
10-02		Equipment Number	M	AN	1/10	1	130	O	1	99	1	1000	N702	207	M	AN	1/10
		The serial number of the equipment to be used. For direct loads from a trailer pool, enter the equipment number provided by the shipper.															

DoD INFORMATION						X12 SEGMENT INFORMATION							X12 ELEMENT INFORMATION				
Index	DG	Data Name Notes and Codes	DoD Recommended Attributes			Tabl	Pos	Req Des	Max Use	Lp Rpt	Lp Lvl	Lp ID	Ref Des	DE #	Attributes		
10-03		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. ELEMENT CONDITION: If available, data must be sent	C	R	1/10	1	130	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	130	O	1	99	1	1000	N704	187	C	ID	1/2
10-08		Equipment Cube ELEMENT CONDITION: If available, data must be sent	C	R	1/8	1	130	O	1	99	1	1000	N708	183	C	R	1/8
10-09		Equipment Cube Qualifier ELEMENT CONDITION: Required if N708 is used. E - Cubic Feet	C	ID	1/1	1	130	O	1	99	1	1000	N709	184	C	ID	1/1
10-13		Temperature Control Use to specify temperature setting for reefer shipments. ELEMENT CONDITION: If necessary, indicate minimum and maximum temperature. Report all temperatures in Fahrenheit. Sample Values: +30, -10	C	AN	3/6	1	130	O	1	99	1	1000	N713	319	O	AN	3/6
10-15		Equipment Length ELEMENT CONDITION: If available, data must be sent	C	N0	4/5	1	130	O	1	99	1	1000	N715	567	O	N0	4/5
10-22		Equipment Type 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	130	O	1	99	1	1000	N722	24	O	ID	4/4
11		**S5 SEGMENT - Pick-up Location** LOOP CONDITION: Use this S5 loop to describe shipment pickup information and pickup location. Not used when transaction purpose code is '01' (cancellation). Currently used only for shippers using GFM	C			2	010	O	1	99	1	2000	See X12 Standards for explanation of syntax notes. P0304P0506P0708				
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

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		
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 - Scheduled Pick-up Date**	M			2	020	O	2	99	1	2000					
						See X12 Standards for explanation of syntax notes. R0103P0102P0304											
12-01		Scheduled 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		Scheduled Pick-up Date	M	DT	8/8	2	020	O	2	99	1	2000	G6202	373	C	DT	8/8
12-03		Time Qualifier ELEMENT CONDITION: If available, data must be sent U - Scheduled Pick Up Time	C	ID	1/1	2	020	O	2	99	1	2000	G6203	176	C	ID	1/2
12-04		Scheduled Pick-up Time Format is 'HHMM'. ELEMENT CONDITION: If available, data must be sent	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					
						See X12 Standards for explanation of syntax notes. R0203P0304											
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 ELEMENT CONDITION: If available, data must be sent	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

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		
13-04		Origin DoDAAC/CAGE	M	AN	5/6	2	050	O	1	1	2	2100	N104	67	C	AN	2/80
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					
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					
						See X12 Standards for explanation of syntax notes. C0605											
16-01		Origin City Name	M	AN	2/30	2	080	O	1	1	2	2100	N401	19	O	AN	2/30
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
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		**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. Currently used only for shippers using GFM.	C			2	010	O	1	99	1	2000					
						See X12 Standards for explanation of syntax notes. P0304P0506P0708											
17-01		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
17-02		Stop Reason Code UL - Unload	M	ID	2/2	2	010	O	1	99	1	2000	S502	163	M	ID	2/2
18		**G62 SEGMENT - Mandatory Delivery Date**	M			2	020	O	2	99	1	2000					
						See X12 Standards for explanation of syntax notes. R0103P0102P0304											

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		
18-01		Mandatory Delivery Date Qualifier 67 - Delivered By This Date *Use '67' to denote Mandatory Delivery Date.*	M	ID	2/2	2	020	O	2	99	1	2000	G6201	432	C	ID	2/2
18-02		Mandatory Delivery Date	M	DT	8/8	2	020	O	2	99	1	2000	G6202	373	C	DT	8/8
18-03		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
18-04		Mandatory Delivery Date Pickup Time Format is 'HHMM'. ELEMENT CONDITION: If available, data must be sent	C	TM	4/4	2	020	O	2	99	1	2000	G6204	337	C	TM	4/8
18-05		Time Code 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
19		**N1 SEGMENT - Ship-to (ST)**	M			2	050	O	1	1	2	2100					
						See X12 Standards for explanation of syntax notes. R0203P0304											
19-01		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
19-02		Ship-to (ST) Name	M	AN	1/60	2	050	O	1	1	2	2100	N102	93	C	AN	1/60
19-03		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
19-04		Ship-to (ST) Identification Code	M	AN	5/6	2	050	O	1	1	2	2100	N104	67	C	AN	2/80

DoD INFORMATION						X12 SEGMENT INFORMATION							X12 ELEMENT INFORMATION				
Index	DG	Data Name Notes and Codes	DoD Recommended Attributes			Tabl	Pos	Req Des	Max Use	Lp Rpt	Lp Lvl	Lp ID	Ref Des	DE #	Attributes		
20		**N2 SEGMENT - Additional Ship-to (ST) Name** SEGMENT CONDITION: Use when additional Ship-to (ST) Name applies.	C			2	060	O	1	1	2	2100					
20-01		Additional Ship-to (ST) Name	M	AN	1/60	2	060	O	1	1	2	2100	N201	93	M	AN	1/60
21		**N3 SEGMENT - Ship-to (ST) Street Address**	M			2	070	O	2	1	2	2100					
21-01		Ship-to (ST) Street Address	M	AN	1/55	2	070	O	2	1	2	2100	N301	166	M	AN	1/55
22		**N4 SEGMENT - Ship-to (ST) City Name and State/ZIP Codes**	M			2	080	O	1	1	2	2100					
						See X12 Standards for explanation of syntax notes. C0605											
22-01		Ship-to (ST) City Name	M	AN	2/30	2	080	O	1	1	2	2100	N401	19	O	AN	2/30
22-02		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
22-03		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
23		**SE SEGMENT - DTCI Transportation Service Response Trailer**	M			2	220	M	1								
23-01		Number of Included Segments	M	N0	1/10	2	220	M	1				SE01	96	M	N0	1/10
23-02		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	2	220	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.

[8-01] - Accessorial/Special Handling Charge Detail

220 Mapping: 1 110 L901 150

Accessorial Services for Rail Shipments

X12 Code	DoD Definition
045	**Advancing Charges**
X12 Definition:	*Advance Fee*
AAS	**Attendants Accompanying**
ARG	**Rail Armed Guard Service**
BLK	**Blocking and Bracing Charge**
CCS	**Carrier Caboose Charge**
CGC	**Carrier Guard Cars**
X12 Definition:	*Carrier Guard Car Charge*
CGR	**Government Caboose/Guard Cars Returned**
X12 Definition:	*Return Carrier Guard Car Charge*
CSP	**Government Caboose Charge**
DEM	**Demurrage**
ECS	**Empty Cars Ordered but Not Used**
X12 Definition:	*Empty Railcar Ordered But Not Used Charge*
EXC	**Exclusive Use**
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	**Intermodal Shipment**
X12 Definition:	*Intermodal Shipment Service Charge*
PRL	**Prelodging**
X12 Definition:	*Prelodge Charge*
PUD	**Pick-up and Delivery**
RCL	**Redelivery**
RIS *	**Rail Inspection Service**
RLS	**Relocation of Vehicle**
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**

SVS	**Storage of Vehicles**
TMV	**Tendering of Multiple Vehicles**
URC *X12 Definition:*	**Loading/Unloading** *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**
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**

Accessorial/Protective Service For Air Shipments

X12 Code	DoD Definition
045	**Advancing Charges**
X12 Definition:	*Advanced Fee*
405	**Fuel Surcharge**
520	**Overdimensional**
X12 Definition:	*Oversized Premium*
675	**Signature and Tally Record Service**
X12 Definition:	*Security Signature Service*
AFN *	**Air Craft Furnished and Not Used**
AIR *	**Air**
X12 Definition:	*Air Freight*
CIS	**DoD Constant Surveillance Service**
X12 Definition:	*Constant Surveillance*
DDN	**Dual Driver Protective Service with National Agency Check**
X12 Definition:	*Dual Driver with National Agency Check*
DDP	**Dual Driver Protective Service**
DEL	**Delivery Charge**
ECR	**Escorts/Couriers**
X12 Definition:	*Escort/Courier Service*
EVC *	**Excess Valuation**
X12 Definition:	*Excess Value Charge*
	per DM ***285***
HAZ *	**Hazardous Material**
X12 Definition:	*Hazardous Cargo Charge*
HOL	**Sunday or Holiday Pickup or Delivery**
PSS	**Protective Service Security**
X12 Definition:	*Protective Security Service*
PUD	**Pickup or Delivery Before or After Normal Business Hours**
X12 Definition:	*Pick-up and Delivery*
RCC	**Reconsignment Charge**
X12 Definition:	*Reconsignment*
RCL	**Redelivery**
SAT	**Saturday Pickup or Delivery**
SEV	**Security Escort Vehicle Vehicle**
X12 Definition:	*Security Escort Vehicle Service*
WTG *	**Waiting Time**

* Migration Code

Accessorial/Protective Service For Motor Shipments

X12 Code	DoD Definition
045	**Advancing Charges**
X12 Definition:	*Advance Fee*
405	**Fuel Adjustment**
X12 Definition:	*Fuel Surcharge*
520	**Overdimension Permit**
X12 Definition:	*Oversized Premium*
675	**Signature Tally**
X12 Definition:	*Security Signature Service*
BUA	**Bunker Adjustment**
CFC	**Customs Fees - Container Level**
CHN	**Chains and Binders**
X12 Definition:	*Chain and Binders*
CIS	**Constant Surveillance**
CUF	**Currency Adjustment Factor**
DDN	**Dual Driver with National Agency Check**
DDP	**Dual Driver**
X12 Definition:	*Dual Driver Protectice Service*
DEP	**Detention of Conveying Equipment and the Power Unit**
X12 Definition:	*Detention of Power Units*
DET	**Detention of Conveying Equipment Excluding the Power Unit**
X12 Definition:	*Detention of Trailers*
ELS	**Extra Lights**
EMT	**Empty Movement**
ERS	**Empty Return**
EXC	**Exclusive Use Charge**
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	**Escort (standard)**
X12 Definition:	*Escort Service*
MET	**Escort (telephones)**
X12 Definition:	*Escort Service (Telephone)*
MNS	**Motor Surveillance (12-hour calls)**
X12 Definition:	*Motor Surveillance Service*
MVS	**Special Motor Surveillance Charge**

PER	**Overweight Permit**
X12 Definition:	*Permit Charge*
PRL	**Prelodging**
X12 Definition:	*Prelodge Charge*
PSS	**Protective Security (without armed drivers)**
X12 Definition:	*Protective Service Security*
PTS	**Protective Tarping**
X12 Definition:	*Protective Tarp for Security Purposes*
PUD	**Pick-up and Delivery**
PVB	**Bonded Privately Owned Vehicle Charge**
RCC	**Reconsignment/Diversion**
X12 Definition:	*Reconsignment Charge*
RCL	**Redelivery**
RLS	**Relocation of Vehicle**
RSS	**Restricted Speeds**
RSV	**Reservations**
SAT	**Saturday Pick-up or Delivery Charge**
SDL	**Split Delivery**
SEV	**Security Escort Service**
X12 Definition:	*Security Escort Vehicle Service*
SNS	**Satellite Motor Surveillance**
X12 Definition:	*Satellite Surveillance Service*
SOC	**Stop-off Charge**
SPU	**Split Pickup**
SRG	**Storage**
SRS	**Surveying Routes**
SSR *	**Surveying Routes**
X12 Definition:	*Safehaven/Secureholding Refusal*
TOW *	**Motor Towaway Service**
TPA *	**Carrier Equipment Pool Charge**
URC	**Loading/Unloading**
X12 Definition:	*Unloading/Reloading Charge*
VFN	**Vehicles Furnished But Not Used**
VIS	**Vehicles Inoperable**
VTS	**Vehicles in Truckaway**
X12 Definition:	*Vehicles in Truckway*
WTV	**Weight Verification Charge**

* Migration Code

Bulk Fuel Shipments

X12 Code	DoD Definition
045	**Advancing Charges**
X12 Definition:	*Advance Fee*
ADL	**Advance Loading Charge**
CLN	**Cleaning Charge**
CTR	**Circuitous Routing Charge**
DEP	**Detention with Power Unit**
X12 Definition:	*Detention of Power Units*
DET	**Detention Without Power Unit**
X12 Definition:	*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	**Equipment Hose (over 36')**
X12 Definition:	*Hose Charge*
HOX	**Equipment Hose (special type)**
X12 Definition:	*Hose Charge Special*
PAJ	**Pumping Equipment**
X12 Definition:	*Pump Charge*
PUD	**Pick-up and Delivery**
RCC	**Reconsignment/Diversion**
X12 Definition:	*Reconsignment Charge*
RCL	**Redelivery**
SAT	**Saturday Pick-up Charge**
X12 Definition:	*Saturday Pick-up or Delivery Charge*
SOC	**Stop-off Charge**
SPA *	**Allowances**
X12 Definition:	*Special Allowance*
SPU	**Split Pickup**
SRG	**Storage**
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		**Delivery Service/Receipt and Issue**
X12 Definition:		*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

220 Mapping: 1 330 N722 24

Air

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

Containers

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

Motor and TOFC (Dimensions are Outside Dimensions)

DoD Code	DoD Definition
A10	410 Dromedary, 102" L x 75 ½" H x 92" W, 410 cubic feet
A11	Van, air ride, 45 ft or 48 ft, padded, equipped with electric hydraulic powered crane loading unloading system or hydraulic powered
A16	Special Dromedary with MRO
A20	Motor vehicle transport trailer
A30	Removable gooseneck
A40	Flat bed trailer, hot shot, 40 ft and over
A5	Tractor, air ride
A50	Van, closed, padded/logistics type, freight only, w/air ride suspension, 40 ft and over
A6	Tractor, other than air ride
A7	Flat bed, 30 feet and less, hooked in tandem as one unit
A8	Van, air ride, w/temperature and humidity control
A9	Van, closed, padded, w/air ride suspension 2nd & 3rd proviso only
AA1	Van, closed air ride, 30 ft and less
AA2	Van, closed air ride, 31-40 ft
AA3	Van, closed air ride, over 40 ft
AB0	Lowboy, level deck, 10 axles and over
AB2	Lowboy, level deck, 2 axles
AB3	Lowboy, level deck, 3 axles
AB4	Lowboy, level deck, 4 axles
AB5	Lowboy, level deck, 5 axles
AB6	Lowboy, double drop, air ride, w/outriggers, 3 axles
AB7	Lowboy, level deck, 7 axles
AB9	Lowboy, level deck, 9 axles
AC2	Expandable low bed trailer, 2 axles
AC3	Expandable low bed trailer, 3 axles
AC4	Expandable low bed trailer, 4 axles
AD	Regular Dromedary
AD6	Dromedary with Mechanical Restraining Device (MRD)
AE0	Lowboy, double drop, 10 axles and over
AE2	Lowboy, double drop, 2 axles
AE3	Lowboy, double drop, 3 axles
AE4	Lowboy, double drop, 4 axles
AE5	Lowboy, double drop, 5 axles
AE6	Lowboy, double drop, w/outriggers, 3 axles

AE7	Lowboy, double drop, 7 axles
AE9	Lowboy, double drop, 9 axles
AF1	Flat bed, 30 ft and less
AF2	Flat bed, 31-40 ft
AF3	Flat bed, over 40 ft
AG1	Van, open, 30 ft and less
AG2	Van, open, 31-40 ft
AG3	Van, open, over 40 ft
AG4	Tautliner Van w/Tarps, 30’ or less
AG5	Tautliner Van w/Tarps, 31’ to 40’
AG6	Tautliner Van w/Tarps, over 40’
AH2	Drop frame trailer, drop/step deck, 2 axles
AH3	Drop frame trailer, drop/step deck, 3 axles
AI2	Drop frame trailer, drop/step deck, air ride, 2 axles
AI3	Drop frame trailer, drop/step deck, air ride, 3 axles
AJ0	Lowboy, level deck, air ride, 10 axles and over
AJ2	Lowboy, level deck, air ride, 2 axles
AJ3	Lowboy, level deck, air ride, 3 axles
AJ4	Lowboy, level deck, air ride, 4 axles
AJ5	Lowboy, level deck, air ride, 5 axles
AJ6	Lowboy, level deck, air ride, w/outriggers, 3 axles
AJ7	Lowboy, level deck, air ride, 7 axles
AJ9	Lowboy, level deck, air ride, 9 axles
AK	Van, refrigerated, perishable food
AL2	Extendable flat bed trailer, 2 axles
AL3	Extendable flat bed trailer, 3 axles
AL4	Extendable flat bed trailer, 4 axles
AM0	Lowboy, double drop, air ride, 10 axles and over
AM2	Lowboy, double drop, air ride, 2 axles
AM3	Lowboy, double drop, air ride, 3 axles
AM4	Lowboy, double drop, air ride, 4 axles
AM5	Lowboy, double drop, air ride, 5 axles
AM6	Lowboy, double drop, air ride, w/outriggers, 3 axles
AM7	Lowboy, double drop, air ride, 7 axles
AM9	Lowboy, double drop, air ride, 9 axles
AN	Adjustable tilt bed trailer
AO	Driveaway/Truckaway

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

Other Methods

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

Rail

DoD Code	DoD Definition
KA	Box, automobile
KB1	Flat, bilevel, not enclosed
KB2	Flat, bilevel, enclosed
KC	Box, nuclear waste, DODX w/racks permanently affixed
KD	Gondola, drop ends
KE	Box, end door
KF1	Flat, any other type, not over 70'
KF2	Flat, any other type, over 70' but not over 90'
KG1	Gondola, any other type, 52’ hi capacity
KG2	Gondola, any other type, 65’ hi capacity
KH1	Hopper open-top, 80 tons and less
KH2	Hopper open-top, 100 tons, 2000 cubic feet
KH3	Hopper, closed-top, 70 tons, 2000 cubic feet
KH4	Hopper, closed top, 100 tons, 2929 cubic feet
KH5	Hopper, closed-top, 100 tons, 4000 cubic feet
KH6	Hopper, closed-top, 100 tons, 4600 cubic feet
KK1	Refrigerator, perishable foods, not over 53'mechanical
KK2	Refrigerator, perishable foods, over 53', but not over 61 mechanical
KL1	Flat, trilevel, not enclosed
KL2	Flat, trilevel, enclosed
KO1	Box, any other type, not over 52' 6"
KO2	Box, any other type, over 52' 6", but not over 60’ 9"
KO3	Box, any other type, over 60’ 9"
KP	Box, damage prevention type
KR1	Refrigerator, any other type, not over 53' mechanical
KR2	Refrigerator, any other type, over 53', but not over 65’ mechanical
KS	Stock
KT1	Tank, 10,000 gallons
KT2	Tank, 20,000 gallons
KT3	Tank, 30,000 gallons
KU	Caboose, DODX armed guard
KW1	TOFC car
KW2	COFC car
KX	Box, missile, DODX w/refrigeration

KY	Flat, heavy duty
KZ1	Flat, DODX, not over 60’
KZ2	Flat, DODX, over 60’
KZ3	Locomotive under own power, on own wheels
KZ4	Locomotive not under own power, on own wheels
KZ5	Locomotive not under own power, not on own wheels

Water

DoD Code	DoD Definition
WA	Steamship
WE	Covered barge
WG	Cylinder tank barge
WI	Flush deck oil barge
WK	Liquid covered barge
WM	Open barge
WP	Special auto barge