Department of Defense

DoD Electronic Data Interchange (EDI) Convention

ASC X12 Transaction Set 210
Motor Carrier Invoice
(Version 003020)

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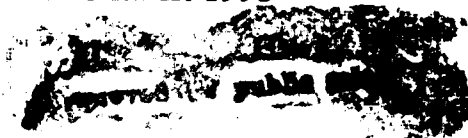ELECTE
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Department
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Defense

DoD

Electronic Data

Interchange (EDI)

Convention

ASC X12 Transaction Set 210
Motor Carrier Invoice
(Version 003020)

Executive Agent for EC/EDI/PLUS
Defense Logistics Agency
Cameron Station
Alexandria, VA 22304-6100

10.0 DoD EDI CONVENTION

ASC X12 TRANSACTION SET 210 MOTOR CARRIER INVOICE (VERSION 003020)

FORMATTING INVOICE INFORMATION FOR THE DoD TRANSPORTATION PAYMENT SYSTEM USING THE X12.104 TRANSACTION SET 210 MOTOR CARRIER INVOICE.

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Contents

FORMATTING INVOICE INFORMATION FOR THE DoD
TRANSPORTATION PAYMENT SYSTEM USING THE X12.104
TRANSACTION SET 210 MOTOR CARRIER INVOICE.

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10.i INTRODUCTION

This is an Electronic Data Interchange (EDI) systems design document that describes the standard or "convention" the Department of Defense (DoD) will use to accept a transportation invoice using the ASC X12.104 Transaction Set 210 Motor Carrier Invoice (003020). It contains information for the design of interface computer programs that serve to link systems application computer programs and an EDI translator computer program.

Who Needs to Use This Document

Computer programmers can use this document to identify the data in a populated EDI transaction with data requirements of their specific application database. Conversely, programmers can identify where their applications data requirement should be carried in an EDI transaction.

Why Use a Convention

There are more ways to populate an EDI transaction than there are ways to fill out a blank form. A convention defines the rules for filling in or "populating" an EDI transaction with a specific data set. Following a convention ensures the integrity of data that is produced and processed by EDI capable computer systems.

Contents

Four sections are included in this document.

- Section 10.2, Control Segments, identifies the specific data requirements for formatting the EDI interchange control segments needed to send and receive EDI transactions.

- Section 10.5, Data Element Cross-Reference Matrix, lists the data requirements of DoD and specifies where each data element should be carried in the transaction set. This section can be used to map an existing application database into the transaction set.

- Section 10.7, DoD Conventions, lists the layout of the target transaction set by segment and data element. Identified along side each transaction set data element is the cross-reference data element from Section 10.5. This section can be used to interpret segments and data elements of a populated transaction set.

- Appendices contain examples of populated transaction sets, trading partner data element matrix, and other items that serve as references for software developers.

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10.2 Control Segments

Overview

This chapter describes the Electronic Data Interchange (EDI) control segments (interchange control segments and functional group segments). The control segment information was derived from the ASC X12 Standards Draft Version 3 Release 2 (003020).

Purpose

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

Contents

Two items are included in this chapter.

- Table 10.2-1, Interchange Control Segment Hierarchy describes the control segments in their order of occurrence in an EDI communications interchange.

- Table 10.2-2, DoD Convention ASC X12 Control Segments is a detailed description of the Department of Defense data conventions for formatting EDI standard control segments. All segments identified in Table 10.2-1 are broken down and described by their discrete data elements.

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TABLE 10.2-1

Control Segment Hierarchy

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Interchange Control Envelope
Control Segments

Industry	Pos No.	Seg ID	Name	Req Des	Use	Loop
USE	10	ISA	Interchange Control Header	M	1	
USE	20	GS	Functional Group Header	M	1	

●

● Grouped Transactions

●

Industry	Pos No.	Seg ID	Name	Req Des	Use	Loop
USE	30	GE	Functional Group Trailer	M	1	
USE	40	IEA	Interchange Control Trailer	M	1	

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TABLE 10.2-2

DoD Convention

ASC X12 Control Segments

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Segment: **ISA**   Interchange Control Header

Usage: **M**

Purpose: To start and identify an interchange of one or more functional groups and interchange-related control segments. The actual values of the data element separator and the segment terminator for this interchange are by the interchange control header. For a ticular interchange, the value at the fourth character position is the data element separator, and the value of the last character position is the value of the segment terminator.

Note: The interchange control number value in this header must match the value in the same data element in the corresponding interchange control trailer.

Data Element Summary

Ref. Des.	Data Element	Name	Attributes
ISA01	I01	Authorization Information Qualifier	M ID 2/2

Code to identify the type of information in the Authorization Information.

Code	Definition
00	No Authorization Information Present

Ref. Des.	Data Element	Name	Attributes
ISA02	I02	Authorization Information	M AN10/10

Information used for additional identification or authorization of the sender or the data in the interchange.

Ref. Des.	Data Element	Name	Attributes
ISA03	I03	Security Information Qualifier	M ID 2/2

Code to identify the type of information in the security information.

Authorization Qualifier
[001]

Authorization Info
[002]

If no authorization information is agreed to by trading partners, fill field with zeroes.

		Code	Definition
		00	No security information present.

Security Qualifier
[003]

ISA04 I04 Security Information   M AN10/10

This is used for identifying the security information about the sender or the data in the interchange.

Security Info
[004]

If no security information is agreed to by trading partners, fill field with zeroes.

ISA05 I05 Interchange Id Qualifier   M ID   2/2

Qualifier to designate the system/method of code structure used to designate the sender ID element being qualified.

Sender Qualifier
[005]

Use authorized X12 code list.

ISA06 I06 Interchange Sender's Id   M AN15/15

Identification code published by the sender for other parties to use as the receiver ID to route data o them.

Sender Id
[006]

DoD activities use Department of Defense Activity Address Code (DoDAAC) or other code coordinated with the Defense Transportation EDI Administrator. Non-DoD activities use identification code qualified by ISA05 and coordinated with the value-added network (VAN).

ISA07 I05 Interchange Id Qualifier   M ID   2/2

Code to identify the type of information in the Authorization Information.

Interchange Qualifier
[007]

Use authorized X12 code list.

Receiver Id
[008]

For DoD activities, use Department of Defense Activity Address Code (DoDAAC) or other code coordinated with the Defense Transportation EDI Administrator. For Non-DoD activities, use identification code qualified by ISA07 and coordinated with the VAN.

ISA08   I07   Interchange Receiver's Id   M   AN15/15

Identification code published by the receiver of the data.

Date
[009]

Assigned by translation software.

ISA09   I08   Interchange Date   M   DT   6/6

Date of the interchange.

Time
[010]

Assigned by translation software.

ISA10   I09   Interchange Time   M   TM   4/4

Time of the interchange.

ISA11   I10   Interchange Control Standard   M   ID   1/1
Identifier

Code to identify the agency responsible for the control standard used by the message that is enclosed by the interchange header and trailer.

Standards Id
[011]

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

ISA12   I11   Interchange Control Version   M   ID   5/5

This version number covers the interchange control segments and the functional group control segments.

**Version Id
[012]**

Version ID as defined or agreed
upon by the trading partners.

Code	Definition
00302	Draft Standard for Trial Use Approved for Publication by ASC X12 Procedures Review Board Through October 1991

ISA13 I12 Interchange Control Number   M NO   9/9

This number uniquely identifies the interchange data
to the sender.

**Interchange Control Number
[013]**

Assigned by translation software.

ISA14 I13 Acknowledgment Requested   M ID   1/1

Code sent by the sender to request an interchange ac-
knowledgement.

**Acknowledgment Request
[014]**

Code value agreed upon by trad-
ing partners.

Code	Definition
0	No Acknowledgment Requested
1	Interchange Acknowledgement Requested

ISA15 I14 Test Indicator   M ID   1/1

Code to indicate whether data enclosed by this inter-
change envelope is test or production.

**Test Indicator
[015]**

Code value agreed upon by trad-
ing parters.

Code	Definition
P	Production Data
T	Test Data

ISA16 I15 Subelement Separator   M AN   1/1

This is a field reserved for future expansion in
separating data element subgroups.

Subelement Separator
[016   ]

Segment: **GS** Functional Group Header

Usage: **M**

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

Comment: A. A functional group of related transaction sets, within the scope of X12 standards, consists of a collection of similar transaction sets enclosed by a functional group header and a functional group trailer.

Syntax Notes: 01 The data interchange control number (GS06) in this header must be identical to the same data element in the associated Functional Group Trailer (GE02).

Data Element Summary

Ref. Des.	Data Element	Name	Attributes
GS01	**479**	**Functional Id Code**	**M ID 2/2**

Code identifying a group of application related Transaction Sets.

Functional Id
[020]

Code	Definition
IA	110 - Air Freight Details and Invoice
IM	210 - Freight Details and Invoice (Motor)
MI	213 - Carrier Shipment Status Inquiry
QM	214 - Shipment Status Message
IR	410 - Freight Details and Invoice (Rail)
RA	820 - Payment Order/Remittance Advice
SI	858 - Shipment Information
FB	859 - Freight Invoice (Generic Mode)
CG	994 - Administrative Message
FA	997 - Functional Acknowledgement

Choose the code value appropriate to the information content of the functional group. See X12 Dictionary for source code list.

GS02	**142**	**Application Sender's Code**	**M AN 2/12**

Code identifying party sending transmission. Codes agreed to by trading partners.

Sender's Code
[021]

DoD activities use Department of Defense Activity Address Code (DoDAAC). Non-DoD activities use identification code assigned by DoD activity. Recommend for increased security that non-DoD code differ from that used in ISA06.

GS03	124	Application Receiver's Code	M	AN	2/12

Code identifying party receiving transmission. Codes agreed to by trading partners.

Receiver's Code
[022]

DoD activities use Department of Defense Activity Address Code (DoDAAC). Non-DoD activities use identification code assigned by DoD activity. Recommend for increased security that non-DoD code differ from that used in ISA08.

GS04	29	Group Date	M	DT	6/6

Date sender generated a functional group of transaction sets.

Date
[023]

Assigned by translation software.

GS05	30	Group Time	M	TM	4/4

Time (HHMM) when the sender generated a functional group of transaction sets (local time at sender's location).

Time
[024]

Assigned by translation software.

GS06	28	Group Control Number	M	N0	1/9

Assigned number originated and maintained by the sender.

Group Control Number
[025]

Assigned by translation software.

Agency Code
[026]

Indicates that an ANSI X12 standard is being transmitted.

GS07   455   Responsible Agency Code   M   ID   1/2

Code used in conjunction with Data Element 480 to identify the issuer of the standard.

Code	Definition
X	Accredited Standards Committee X12

Version/Release
[027]

Code value agreed to by trading partners. See X12 Dictionary for source code list.

GS08   480   Version/Release/Industry Id Code   M   ID   1/12

Code indicating the version, release, subrelease and industry identifier of the EDI standard being used. (See X12 Dictionary)

Code	Definition
003020	Draft Standards Approved By ASC X12 Through October 1991

Segment: **GE**   Functional Group Trailer

Usage: **M**

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

Comment: A. The use of identical data interchange control numbers in the associated functional group header and trailer is designed to maximize functional group integrity. The control number is the same as that used in the corresponding header.

Syntax Notes: 01 The data interchange control number (GE02) in this trailer must be identical to the same data element in the associated Functional Group Header (GS06).

Data Element Summary

Ref. Des.	Data Element	Name	Attributes
GE01	97	Number of Included Sets	M N0 1/6

Total number of transaction sets included in the functional group or interchange (transmission) group terminated by the trailer containing this data element.

**Number of Segments
[028]**

Assigned by the translation software.

Ref. Des.	Data Element	Name	Attributes
GE02	28	Group Control Number	M N0 1/9

Assigned number originated and maintained by the sender.

**Group Control Number
[029]**

Assigned by the translation software. This control number must match the control number of the preceding GS06 control number.

Se~ment: **IEA**   Interchange Control Trailer

Usage: **M**

Pupose: To define the end of an interchange of one or more functional groups and interchange related control segments.

Note: The interchange control number in this trailer must match the value in the same data element in the corresponding interchange header.

Data Element Summary

Ref. Des.	Data Element	Name	Attributes
IEA01	I16	Number of Included Functional Groups A count of the number of functional groups included in a transmission.	M NO 1/5
IEA02	I12	Interchange Control Number This number uniquely identifies the interchange data to the sender.	M NO 9/9

Functional Group Count
[040]

Assigned by translation software.

Interchange Control Number
[041]

Assigned by translation software. This number must match the number that occurs in ISA13.

10.5 DATA ELEMENT CROSS-REFERENCE MATRIX

Overview

This chapter lists the data element cross-reference between the Department of Defense (DoD) ASC X12.104 Transaction Set 210 Motor Carrier Invoice (003020). We derived the cross-reference from the following:

- Examination of DoD transportation invoice information data requirements.

- Analysis of ASC X12.104 Transaction Set 210 Motor Carrier Invoice.

- Comments submitted by DoD activities and commercial carriers involved in the DoD electronic data interchange effort.

Purpose

This chapter identifies specific data in an application and their corresponding EDI mapping into the Transaction Set 210. Data elements from an existing application database can be identified with elements in this cross reference. If no application exists, the cross-reference provides enough information to develop a database design to automate the application. With an application in place, this cross-reference will expedite mapping of the database into a commercial EDI translation package. All trading partners who plan to exchange the 210 with DoD can use this document as a reference for the development of their database/EDI translator interface program.

Contents

One table is included in this chapter. Table 10.5-1, Data Element Cross-Reference lists all the discrete data elements of the DoD invoice data requirements and their corresponding segment and data element of the ASC X12.104 Transaction Set 210 Motor Carrier Invoice.

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TABLE 10.5-1

DATA ELEMENT CROSS-REFERENCE

DoD Transportation Invoice Data Using ASC X12.104 Transaction Set 210 Motor Carrier Invoice.

How To Read This Table

Table 10.5-1 cross-references discrete DoD invoice data requirements to the corresponding segment and data elements of the Transaction Set 210. The following definitions explain how table 10.5-1 is organized. Understanding the information in this table requires familiarity with EDI standards.

Government References

The first three columns on the left in Table 10.5-1 identify the specific invoice data element.

- INVOICE DATA NAME: Lists individual data elements required to send a transportation invoice. The user should identify these elements with a data name in their internal database system.

- INDEX: Three entries may appear in this column and represent various levels of indexing used to sort the data names in a data dictionary.

- Q: An asterisk (*) in this column identifies the data as a qualifier code.

EDI References

The remaining seven columns identify the detailed mapping of each data name into Transaction Set 210. Using these references is explained below in "How To Use This Table".

- AREA: The area of the transaction set where the data is mapped. A = header, B = detail, C = summary.

- POS: The sequential position of a specific segment within the area of the transaction set.

- REF DES: The first two or three alphanumeric characters identify a transaction set segment; the last two numeric characters in the column identify a data element position in the segment.

- DE #: The EDI data element number that appears at that position in the segment.

- VALUE: The recommended code value(s) that should be used.

- DoD CONVENTIONS: Additional information about the data as they apply to Department of Defense use.

How To Use This Table

This table maps a data element to a specific data element in an EDI transaction set.

1. Select any data element from the INVOICE DATA NAME list,

2. Identify the AREA, POS, and REF DES for that DATA NAME,

3. Go to Table 10.7-2 DoD Segment Hierarchy,

4. Find the AREA (Table A = header, etc.) in the hierarchy,

5. Locate the segment that corresponds to the POS and the REF DES. NOTE: The POS may not appear in some hierarchy tables. In this case, use the segment id identified by the first 2-3 characters in the REF DES,

6. In the left-hand column, identify the page number of the segment Id,

7. Turn to that page number in Table 10.7-3,

8. Now in the convention table 10.7-3, find the REF DES from step, 2 under the Ref. Des. column on the right hand side of the page,

9. You have now mapped a data element from table 10.5-1 into the convention table 10.7-3.

The INVOICE DATA NAME from Table 10.5-1 appears in the right hand column along with its INDEX and the DoD CONVENTION. The EDI standard definition of the data element appears in the right hand column of the page.

Each INVOICE DATA NAME from Table 10.5-1 can be mapped into the transaction set in this manner.

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210 MOTOR CARRIER INVOICE DATA NAME	INDEX	Q	TBL POS	REF DES	DE #	VALUE	DoD CONVENTION
Transaction Set Id	[001]	*	1	10	ST01	143	210 - X12.104 Motor Carrier Freight Details and Invoice
Transaction Set Control Number	[002]		1	10	ST02	329	The application and structure of the control number must be agreed upon between DoD and its trading partners. The first five digits will indicate the interchange control number. The last four digits represent the sequence of the transaction within the functional group.
Invoice Number	[003]		1	20	B302	76	Transportation service provider's unique invoice number.
GBL Number	[004]		1	20	B303	145	DoD unique number representing a shipment. The number is made up of one or two alpha characters followed by six or seven numbers. Do not use any punctuation or special characters.
Shipment Method of Payment	[005]		1	20	B304	146	PP	PP - Prepaid
Invoice Date	[006]		1	20	B306	373	Date the invoice is issued. Use format YYMMDD.
Total Charges	[007]		1	20	B307	193	Total shipment charge including linehaul, accessorial, special, and fuel surcharge charges. Implied decimal at second position from right.
Correction Indicator	[008]	*	1	20	B308	202	AD - Supplemental / CA - Cancel. If the invoice is submitted for the first time (original invoice), this optional data field is not used.

Field	Ref						Description
Delivery Date	[009]		1	20	B309	32	Date shipment is delivered to consignee. Not required for submission of supplemental invoices. Use format YYMMDD. Qualify in B310. Required for freight shipments only.
Delivery Date Qualifier	[010]	*	1	20	B310	374	035 - Delivered
Billing Carrier SCAC	[011]		1	20	B311	140	Use the SCAC of the carrier that issues the invoice.
Discount Percent	[012]		1	50	ITD03	338	Discount terms, expressed as a percent, available to the purchaser if an invoice is paid on or before the number of discount days has expired. Explicit decimal required. Express accuracy to tenths of a percent (i.e. 10 percent is expressed as 10.0).
Discount Days	[013]		1	50	ITD05	351	The number of days in the terms discount period by which payment is due if terms discount is earned.
Carrier Reference Number Qualifier	[014]	*	1	60	N901	128	CN - Carrier Reference Number (PRO Number)
Carrier Reference Number	[015]		1	60	N902	127	Optional data field available for carriers to express reference number other than invoice number. Qualify in N901.
Payee Code Qualifier	[016]	*	1	60	N901	128	PQ - Payee Identification
Payee Code	[017]		1	60	N902	127	Identification assigned by DoD payment center. Qualify in N901.
Payee Zip Code	[018]	*	1	60	N903	369	Zip code of location that payee authorizes payment to be sent. Must match payee information on file at payment center.
Carrier Pickup Date Qualifier	[019]	*	1	70	G6201	432	86 - Actual Pickup Date

210 MOTOR CARRIER INVOICE DATA NAME	INDEX	Q	TBL POS	REF DES	DE #	VALUE	DoD CONVENTION
Carrier Pickup Date	[020]		1	70	G6202	373		Date carrier picked up shipment. NOT required for submission of supplemental invoices. Use format YYMMDD. Qualify in G6201.
Carrier Pickup Time Qualifier	[021]	*	1	70	G6203	176	8 - Actual Pickup Time
Carrier Pickup Time	[022]		1	70	G6204	337		Use format HHMM. Qualify in G6203. Required for freight shipments only.
Damage Indicator	[023]		1	100	K101	61		Use code "D" to indicate damage and/or shortage apparent upon delivery.
Waiver Indicator	[024]		1	100	K101	61		Use code "W" to certify that a waiver has been received.
Issuing Office Qualifier	[026]	*	1	110	N101	98	IU - Issuer
Issuing Office GBLOC Qualifier	[027]	*	1	110	N103	66	27 - Government Bill Of Lading Office Code (GBLOC)
Issuing Office GBLOC	[028]		1	110	N104	67		Code of Government office that issues GBL. Qualify in N103.
Consignee Qualifier	[029]	*	1	110	N101	98	CN - Consignee
Consignee GBLOC Qualifier	[030]	*	1	110	N103	66	27 - Government Bill of Lading Office Code (GBLOC)
Consignee GBLOC	[031]		1	110	N104	67		Code of Government office responsible for shipment at destination. Qualify in N103. Not required for freight shipments.

Field	Ref				Seg	Elem	Code	Description
Tendered To Carrier Qualifier	[031 100]	*	1	110	N101	98	OC	- Origin Carrier
Tendered To Carrier SCAC Qualifier	[031 110]	*	1	110	N103	66	2	- SCAC
Tendered To Carrier SCAC	[031 120]		1	110	N104	67		Use SCAC of origin carrier. Qualify in N103.
Destination Transportation Company Qualifier	[032]	*	1	110	N101	98	DC	- Destination Carrier
Destination Transportation Company SCAC Qualifier	[033]	*	1	110	N103	66	2	- SCAC
Destination Transportation Company SCAC	[034]		1	110	N104	67		Use SCAC of carrier making the delivery. Qualify in N103. Required for freight shipments only.
Diversion/Reconsignment From Qualifier	[038]	*	1	110	N101	98	T4	- Transfer Point
Diversion/Reconsignment From SPLC Qualifier	[039]	*	1	110	N103	66	20	- Standard Point Location Code (SPLC)
Diversion/Reconsignment From SPLC	[040]		1	110	N104	67		SPLC of location where diversion occurs. Qualify in N103. Required for freight shipments only.
Alternate Terminal Qualifier	[040 010]	*	1	110	N101	98	TR	- Terminal
Alternate Port or Terminal Code	[040 011]		1	110	N102	93		Use the authorized code, identified in the international personal property rate solicitation, of the alternate Military Ocean/Aerial Terminal (MOT/MAT) used for code T and 5 shipments when rate solicitation item 528 applies. Use the authorized code, identified in the international personal property rate solicitation, of the alternate Aerial Port of Embarkation or Debarkation (APOE or APOD) used for code J shipments when rate solicitation 529 applies. Not required for freight shipments.
Air/Ocean Carrier Name Qualifier	[041]	*	1	110	N101	98	CA	- Carrier Name

210 MOTOR CARRIER INVOICE DATA NAME	INDEX	Q	TBL POS	REF DES	DE #	VALUE	DoD CONVENTION
Air/Ocean Carrier Name	[042]		1	110	N102	93	Use to certify use of air/ocean carrier for international shipments. Qualify in N101.
Vessel Name	[043]		1	120	N201	93	Ocean carrier's vessel name.
Air/Ocean Bill Number Qualifier	[044]	*	1	150	N901	128	AW - Air Bill of Lading OB - Ocean Bill of Lading
Air/Ocean Bill Number	[045]		1	150	N902	127	Air or ocean bill of lading number. Qualify in N901.
Waiver Control Number Qualifier	[046]	*	1	150	N901	128	XC - Cargo Control Number
Waiver Control Number	[047]		1	150	N902	127	Use to certify U.S. Flag waiver issued. Qualify in N901.
Authorized Representative Name	[048]		1	150	N903	369	Use to certify U.S. Flag waiver issued. Qualify in N901.
Service Charge Loop Identifier	[049]	*	2	120	LX01	554	-	Assign a sequential number for each charge type except as follows: 1) assign number 301 for personal property accessorial service charges performed at origin or in transit 2) assign number 302 for personal property accessorial service charges performed at destination.
Extra Pickup/Delivery Location Qualifier	[049 010]	*	2	130	N901	128	LU - Location Number

Field	Ref				Code	No.	Notes
Extra Pickup/Delivery State Code	[049 015]		2	130	N902	127	Use 2 character state code (FIPS-PUB-5-1) of location of extra pickup/delivery where additional service occurred. Use only for personal property shipments with DoD accessorial item codes of 101 or any item that uses rates for item 101, 112, and or any item that uses rates for item 502. Qualify in N901. Not required for freight shipments.
Number of Units Performed	[050]		2	170	L002	220	Number of units of service performed. Qualified in L003. Not required for freight shipments.
Number of Units Performed Qualifier	[050 010]	*	2	170	L003	221	See Appendix 10.F for application.
Weight	[050 015]		2	170	L004	81	The weight of the personal property if L112 is 112A, 112B, 112C, 130D, 145B, 152D, 518A, 518C, or 534A. Qualified in L005. Not required for freight shipments.
Weight Qualifier	[050 020]	*	2	170	L005	187	B - Billed Weight
Weight Unit Qualifier	[050 025]	*	2	170	L011	188	L - Pounds
Service Charge	[051]		2	180	L104	58	Charge for each service identified in L108. Implied decimal at second postion from right.
Service Charge Code	[052]	*	2	180	L108	150	Services regulated by the Military Traffic Management Command (MTMC). See Billing Instructions available from DoD Payment Center for more information. See Appendix 10.F for cross reference from DoD codes to ASC X12 codes.
Service Charge Description	[053]	*	2	180	L112	276	Use a free form description of any third party or miscellaneous service code identified in L108. In addition, use DoD code that further describes a personal property service. See Appendix 10.F for application.

210 MOTOR CARRIER INVOICE

DATA NAME	INDEX	Q	TBL POS	REF DES	DE #	VALUE	DoD CONVENTION
Tariff/Tender Miles	[054]		2	200	L713	294	Mileage used in calculating mileage related charges. Qualify in L714.
Tariff/Tender Miles Qualifier	[055]	*	2	200	L714	295	T - Tariff/Tender Miles
Total Billed Weight	[055 020]		3	10	L301	81	Total billed weight in pounds, rounded to whole number. If not applicable to invoice, enter 0.
Total Billed Weight Qualifier	[055 025]	*	3	10	L302	187	B - Billed Weight
Included Number of Segments	[056]		3	20	SE01	96	Total segments in this transaction set including the ST and SE segments.
Transaction Set Control Number	[057]		3	20	SE02	329	This data element ends the transaction set and should match the number that appears in the ST02 that begins the transaction set.

10.7 DoD CONVENTIONS

Overview

This chapter is the convention for the ASC X12.104 Transaction Set 210 (Version 003020) as used by the Department of Defense for accepting a transportation invoice. It was derived from:

- Table 10.5-1, Data Element Cross-Reference Matrix that describes the discrete DoD data requirements for invoices.

- ASC X12.104 Transaction Set 210 Motor Carrier Invoice.

A relational database management system was used to merge the Data Element Cross-Reference Matrix and a Transaction Set 210 database into the subset of 210 segments described in table 10.7-3 of this chapter.

Purpose

This chapter contains all necessary information for a DoD trading partner to map and translate a Transaction Set 210. All trading partners who plan to exchange the Transaction Set 210 can use this document as a reference for the development of their EDI database/translator interface program.

Contents

Three tables are included in this chapter.

- Table 10.7-1, ASC X12.104 Transaction Set 210 Segment Hierarchy describes the 210 segments as they appear in the ASC X12 Standards Dictionary.

- Table 10.7-2, DoD Model Transaction Set 210 Segment Hierarchy describes the subset of 210 segments used for sending transportation invoices.

- Table 10.7-3, Conventions is a detailed description of the Department of Defense conventions for transmitting Transaction Set 210. All segments identified in Table 10.7-2 are detailed in Table 10.7-3 by segment, position, and code value.

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TABLE 10.7-1

SEGMENT HIERARCHY

ASC X12.104 TRANSACTION SET 210
MOTOR CARRIER INVOICE
(Version 003020)

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ASC X12.104 Transaction Set 210
Motor Carrier Freight Details and Invoice
(Version 003020)
Segment Hierarchy

———— Table 1 - Header Area ————

Industry	Pos No.	Seg ID	Name	Req Des	Use	Loop
USE	10	ST	Transaction Set Header	M	1	
USE	20	B3	Beginning Segment for Carrier's Invoice	M	1	
	30	C2	Bank ID	O	1	
	40	C3	Currency	O	1	
USE	50	ITD	Terms of Sale/Deferred Terms of Sale	O	1	
USE	60	N9	Reference Number	O	10	
USE	70	G62	Date/Time	O	6	
	80	R3	Route Information - Motor	O	12	
	90	H3	Special Handling Instructions	O	6	
USE	100	K1	Remarks	O	10	
USE	110	N1	Name	O	1	N1/10
USE	120	N2	Additional Name Information	O	1	
	130	N3	Address Information	O	2	
	140	N4	Geographic Location	O	1	
USE	150	N9	Reference Number	O	6	
	160	N7	Equipment Details	O	1	N7/10
	170	M7	Seal Numbers	O	2	

———— Table 2 - Detail Area ————

Industry	Pos No.	Seg ID	Name	Req Des	Use	Loop
	10	S5	Stop Off Details	O	1	S5/999
	20	N9	Reference Number	O	10	
	30	G62	Date/Time	O	10	
	40	H3	Special Handling Instructions	O	6	
	50	N1	Name	O	1	N1/2
	60	N2	Additional Name Information	O	1	

	70	N3	Address Information	O	2	
	80	N4	Geographic Location	O	1	
	90	N9	Reference Number	O	5	

| | 100 | N7 | Equipment Details | O | 1 | N7/10 |
| | 110 | M7 | Seal Numbers | O | 2 | |

USE	120	LX	Assigned Number	O	1	LX/999
USE	130	N9	Reference Number	O	5	
	140	L5	Description, Marks and Numbers	O	30	
	150	H1	Hazardous Material	O	3	
	160	H2	Additional Hazardous Material Description	O	2	
USE	170	L0	Line Item - Quantity and Weight	O	10	
USE	180	L1	Rate and Charges	O	10	
	190	L4	Measurement	O	10	
USE	200	L7	Tariff Reference	O	10	
	210	K1	Remarks	O	10	

———— Table 3 - Summary Area ————

Industry	Pos No.	Seg ID	Name	Req Des	Use	Loop
USE	10	L3	Total Weight and Charges	M	1	
USE	20	SE	Transaction Set Trailer	M	1	

TABLE 10.7-2

SEGMENT HIERARCHY

DoD MODEL FOR TRANSACTION SET
210 MOTOR CARRIER INVOICE

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DoD Model Transaction Set 210
Motor Carrier Invoice
Segment Hierarchy

——————— Table 1 - Header Area ———————

Page No.	Pos No.	Seg ID	Name	Req Des	Use	Loop
13	10	ST	Transaction Set Header	M	1	
14	20	B3	Beginning Segment for Carrier's Invoice	M	1	
17	50	ITD	Terms of Sale/Deferred Terms of Sale	O	1	
19	60	N9	Reference Number	O	10	
21	70	G62	Date/Time	O	6	
23	100	K1	Remarks	O	10	
24	110	N1	Name	O	1	N1/10
28	120	N2	Additional Name Information	O	1	
29	150	N9	Reference Number	O	5	

——————— Table 2 - Detail Area ———————

Page No.	Pos No.	Seg ID	Name	Req Des	Use	Loop
31	120	LX	Assigned Number	O	1	LX/999
32	130	N9	Reference Number	O	5	
34	170	L0	Line Item - Quantity and Weight	O	10	
36	180	L1	Rate and Charges	O	10	
39	200	L7	Tariff Reference	O	10	

——————— Table 3 - Summary Area ———————

Page No.	Pos No.	Seg ID	Name	Req Des	Use	Loop
41	10	L3	Total Weight and Charges	M	1	
43	20	SE	Transaction Set Trailer	M	1	

(Blank Page)

TABLE 10.7-3

DoD 210 CONVENTION

How To Read This Table

This table contains two sets of references. ASC X12 references are contained in the right-hand column. Government references are contained in the left-hand column except for codes lists which are included in the right-hand column.

Government References

The left-hand and middle columns in Table 10.7-3 describe Department of Defense conventions.

- Left-hand column contains two general references.

    > INDEX: is enclosed in brackets and corresponds to a specific INDEX from Table 10.5-1.

    > INVOICE DATA NAME: Appears above the INDEX and corresponds to a specific DATA NAME from Table 10.5-1.

- Middle column: Contains a less-than sign to indicate where Department of Defense conventions vary from the ASC X12 convention.

To help the user determine the source data, the INDEX can be used to trace data elements back to Table 10.5-1.

ASC X12 References

The right-hand column describes the ASC X12 conventions. The information included at the beginning of a segment description is standard ASC X12 information. The subheadings listed under Data Element Summary describe conventions for each data element in the segment.

    > Ref Des, Data Element, Attributes: Three subheadings describe the format of the segment as prescribed by ASC X12.

    > Name: Describes the ASC X12 data element and offers the standard definition. It also lists the specific code values the Department of Defense prescribes and may provide other Department of Defense information.

How To Use This Table

This table can be used to identify the data contained in populated Transaction Set 210.

1. Identify a segment from a populated transaction set (See Appendix 10.C for examples of the 210).

2. Look up the segment in table 10.7-3.

3. Read the right-hand column to identify the Reference Designator (Ref.Des.). The Reference Designator combines the segment id and the data element position to form a single identifier.

4. Read the left-hand column immediately adjacent to the Reference Designator to find the discrete DATA NAME, INDEX, and DoD CONVENTION from Tale 10.5-1 that is mapped to that Reference Designator. When multiple DATA NAMEs appear for a single Reference Designator, there is usually a code qualifier somewhere in the same segment that identifies the data.

Segment: ST   Transaction Set Header

Level: 1

Sequence: 10

Usage: M

Max Use: 1

Loop:

Purpose: To indicate the start of a transaction set and
             to assign a control number

Comment: 01 The transaction set identifier (ST01) is
                intended for use by the translation
                routines of the interchange partners to
                select the appropriate transaction set
                definition (e.g., 810 selects the invoice
                transaction set).

Data Element Summary

Ref. Des.	Data Element	Name	Attributes		
ST01	143	Transaction Set Identifier Code	M	ID	3/3

Code uniquely identifying a Transaction Set.

Transaction Set Id
[001 *]

Code	Definition
210	X12.104 Motor Carrier Freight Details and Invoice

ST02	329	Transaction Set Control Number	M	AN	4/9

Identifying control number assigned by the originator
for a transaction set.

Transaction Set Control
Number
[002]

The application and structure of
the control number must be
agreed upon between DoD and its
trading partners. The first five
digits will indicate the interchange
control number. The last four
digits represent the sequence of
the transaction within the func-
tional group.

Segment:	**B3**	Beginning Segment for Carrier's Invoice
Level:	1	
Sequence:	20	
Usage:	O	
Max Use:	1	
Loop:		
Purpose:	To transmit basic data relating to carrier's invoice.	
Comment:	06 B306 is the Billing Date.	
Syntax Notes:	09 P0910 - If either B309 or B310 is present, then the other is required.	

Data Element Summary

Ref. Des.	Data Element	Name	Attributes
B301	147	Shipment Qualifier	O ID 1/1
B302	76	Invoice Number	M AN 1/22

Identifying number assigned by issuer.

**Invoice Number
[003]**

Transportation service provider's
unique invoice number.

B303	145	Shipment Identification Number	O AN 1/30

Identification number assigned to the shipment by
the shipper that uniquely identifies the shipment
from origin to ultimate destination and is not subject
to modification. (Does not contain blanks or special
characters.)

**GBL Number
[004]**

DoD unique number representing a
shipment. The number is made up
of one or two alpha characters fol-
lowed by six or seven numbers.
Do not use any punctuation or spe-
cial characters.

B304	146	Shipment Method of Payment	M ID 2/2

Code identifying payment terms for transportation
charges.

Shipment Method of Payment [005]					

Code	Definition
PP	Prepaid

B305	188	**Weight Unit Qualifier**	O	ID	1/1

B306	373	**Date**	M	DT	6/6

Date (YYMMDD).

Invoice Date [006]

Date the invoice is issued. Use format YYMMDD.

B307	193	**Net Amount Due**	M	N2	1/9

Total charges to be paid by the receiver of this transaction set expressed in the standard monetary denomination for the currency specified.

Total Charges [007]

Total shipment charge including linehaul, accessorial, special, and fuel surcharge charges. Implied decimal at second position from right.

B308	202	**Correction Indicator**	O	ID	2/2

Code used to indicate that the transaction set contains information which corrects a previous billing.

Correction Indicator [008 *]

If the invoice is submitted for the first time (original invoice), this optional data field is not used.

Code	Definition
AD	Supplemental
CA	Cancel

B309	32	**Delivery Date**	C	DT	6/6

Date for delivery of cargo to final consignee or to next mode.

Delivery Date
[009]

Date shipment is delivered to con-
signee. Not required for submis-
sion of supplemental invoices.
Use format YYMMDD. Qualify in
B310. Required for freight ship-
ments only.

B310	374	Date/Time Qualifier	C	ID	3/3

Code specifying type of date or time, or both date
and time.

Code	Definition
035	Delivered

Delivery Date Qualifie:
[010 *]

B311	140	Standard Carrier Alpha Code	M	ID	2/4

Standard Carrier Alpha Code

Billing Carrier SCAC
[011]

Use the SCAC of the carrier that
issues the invoice.

B312	373	Date	O	DT	6/6

Segment:	**ITD**	Terms of Sale/Deferred Terms of Sale
Level:	1	
Sequence:	50	
Usage:	O	
Max Use:	1	
Loop:		
Purpose:	To specify terms of sale.	

Comment: 01 If the code in ITD01 is 04, then ITD09 is required and either ITD10 or ITD11 is required. If the code in ITD01 equals 05, then ITD06 or ITD07 is required.

15 ITD15 is the percentage applied to a base amount used to determine a late payment charge.

Syntax Notes: 03 L03040513 - If ITD03 is present, at least one of ITD04,ITD05 or ITD13 are required.

08 L08040513 - If ITD08 is present, at least one of ITD04,ITD05 or ITD13 are required.

09 L091011 - If ITD09 is present, at least one of ITD10 or ITD11 are required.

──────── **Data Element Summary** ────────

Ref. Des.	Data Element	Name	Attributes		
ITD01	336	Terms Type Code	O	ID	2/2
ITD02	333	Terms Basis Date Code	O	ID	1/2
ITD03	338	Terms Discount Percent	O	R	1/6

Terms discount percentage, expressed as a percent, available to the purchaser if an invoice is paid on or before the Terms Discount Due Date.

Discount Percent
[012   ]

Discount terms, expressed as a percent, available to the purchaser if an invoice is paid on or before the number of discount days has expired. Explicit decimal required. Express accuracy to tenths of a percent (i.e. 10 percent is expressed as 10.0).

ITD04	370	Terms Discount Due Date	C	DT	6/6
ITD05	351	Terms Discount Days Due	C	NO	1/3

ITD05 Number of days in the terms discount period by which payment is due if terms discount is earned.

Discount Days
[013]

The number of days in the terms discount period by which payment is due if terms discount is earned.

ITD06	446	Terms Net Due Date	O	DT	6/6
ITD07	386	Terms Net Days	O	NO	1/3
ITD08	362	Terms Discount Amount	O	N2	1/10
ITD09	388	Terms Deferred Due Date	O	DT	6/6
ITD10	389	Deferred Amount Due	C	N2	1/10
ITD11	342	Percent of Invoice Payable	C	R	1/5
ITD12	352	Description	O	AN	1/80
ITD13	765	Day of Month	C	NO	1/2
ITD14	107	Payment Method Code	O	ID	1/1
ITD15	954	Percent	O	R	1/10

Segment:	**N9** Reference Number
Level:	1
Sequence:	60
Usage:	M
Max Use:	10
Loop:	
Purpose:	To transmit identifying numbers and descriptive information as specified by the reference number qualifier
Syntax Notes:	02 R0203 - At least one of N902 or N903 is required.

Data Element Summary

Ref. Des.	Data Element	Name	Attributes
N901	**128**	**Reference Number Qualifier**	M ID 2/2

Code qualifying the Reference Number.

Carrier Reference Number Qualifier
[014 *]

Code	Definition
CN	Carrier Reference Number (PRO Number)

Payee Code Qualifier
[016 *]

Code	Definition
PQ	Payee Identification

N902	**127**	**Reference Number**	C AN 1/30

Reference number or identification number as defined for a particular Transaction Set, or as specified by the Reference Number Qualifier.

Carrier Reference Number
[015]

Optional data field available for carriers to express reference number other than invoice number. Qualify in N901.

Payee Code
[017]

Identification assigned by DoD payment center. Qualify in N901.

N903   369   **Free-form Description**   C   AN 1/45

Free-form descriptive text.

Payee Zip Code
[018]

Zip code of location that payee
authorizes payment to be sent.
Must match payee information on
file at payment center.

N904   373   **Date**   O   DT   6/6

N905   337   **Time**   O   TM   4/6

	Segment:	**G62**	Date/Time
	Level:	1	
	Sequence:	70	
	Usage:	C	
	Max Use:	6	
	Loop:		
	Purpose:	To specify pertinent dates and times	

Syntax Notes: 01 R0103 - At least one of G6201 or G6203 is required. P0102 - If either G6201 or G6202 is present, then the other is required.

03 P0304 - If either G6203 or G6204 is present, then the other is required.

Data Element Summary

Ref. Des.	Data Element	Name	Attributes		
G6201	432	Date Qualifier	C	ID	2/2

Code specifying type of date.

Code	Definition
86	Actual Pickup Date

Carrier Pickup Date Qualifier [019 *]

Ref. Des.	Data Element	Name	Attributes		
G6202	373	Date	C	DT	6/6

Date (YYMMDD).

Carrier Pickup Date [020]

Date carrier picked up shipment. NOT required for submission of supplemental invoices. Use format YYMMDD. Qualify in G6201.

Ref. Des.	Data Element	Name	Attributes		
G6203	176	Time Qualifier	C	ID	1/1

Code specifying the reported time.

Code	Definition
8	Actual Pickup Time

Carrier Pickup Time Qualifier [021 *]

Ref. Des.	Data Element	Name	Attributes		
G6204	337	Time	C	TM	4/6

Time expressed in 24-hour clock time (HHMMSS) (Time range: 000000 through 235959)

Carrier Pickup Time
[022]

Use format HHMM. Qualify in
G6203. Required for freight ship-
ments only.

G6205   623   Time Code   O   ID   2/2

Segment: **K1**   Remarks

Level: 1

Sequence: 100

Usage: M

Max Use: 10

Loop:

Purpose: To transmit information in a free-form format, if necessary, for comment or special instruction.

Data Element Summary

Ref. Des.	Data Element	Name	Attributes
K101	61	Free Form Message	M AN 1/30

Free-form information.

Damage Indicator [023]

Use code "D" to indicate damage and/or shortage apparent upon delivery.

Waiver Indicator [024]

Use code "W" to certify that a waiver has been received.

Ref. Des.	Data Element	Name	Attributes
K102	61	Free Form Message	O AN 1/30

Segment:	**N1**	Name
Level:	1	
Sequence:	110	
Usage:	M	
Max Use:	1	
Loop:		
Purpose:	To identify a party by type of organization, name and code	
Comment:	04 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.	
Syntax Notes:	02 R0203 - At least one of N102 or N103 is required.	
	03 P0304 - If either N103 or N104 is present, then the other is required.	

Data Element Summary

Ref. Des.	Data Element	Name	Attributes
N101	**98**	**Entity Identifier Code**	**M ID 2/2**

Code identifying an organizational entity or a physical location.

Issuing Office Qualifier [026 *]

Code	Definition
IU	Issuer

Consignee Qualifier [029 *]

Code	Definition
CN	Consignee

Tendered To Carrier Qualifier [031 100 *]

Code	Definition
OC	Origin Carrier

Destination Transportation Company Qualifier [032 *]

Code	Definition
DC	Destination Carrier

Diversion/Reconsignment From Qualifier [038 *]	**Code** **Definition** T4 Transfer Point

Alternate Terminal Qualifier
[040 010 *]

Code   **Definition**

TR   Terminal

Air/Ocean Carrier Name Qualifier
[041 *]

Code   **Definition**

CA   Carrier Name

N102   **93**   **Name**   **C   AN   1/35**

Free-form name.

Alternate Port or Terminal Code
[040 011]

Use the authorized code, identified in the international personal property rate solicitation, of the alternate Military Ocean/Aerial Terminal (MOT/MAT) used for code T and 5 shipments when rate solicitation item 528 applies. Use the authorized code, identified in the international personal property rate solicitation, of the alternate Aerial Port of Embarkation or Debarkation (APOE or APOD) used for code J shipments when rate solicitation 529 applies. Not required for freight shipments.

Air/Ocean Carrier Name
[042]

Use to certify use of air/ocean carrier for international shipments. Qualify in N101.

N103   **66**   **Identification Code Qualifier**   **C   ID   1/2**

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

Issuing Office GBLOC
Qualifier
[027 *]

Code	Definition
27	Government Bill Of Lading Office Code (GBLOC)

Consignee GBLOC Qualifier
[030 *]

Code	Definition
27	Government Bill of Lading Office Code (GBLOC)

Tendered To Carrier SCAC
Qualifier
[031 110 *]

Code	Definition
2	SCAC

Destination Transportation
Company SCAC Qualifier
[033 *]

Code	Definition
2	SCAC

Diversion/Reconsignment
From SPLC Qualifier
[039 *]

Code	Definition
20	Standard Point Location Code (SPLC)

N104 67 **Identification Code** C AN 2/17

Code identifying a party.

Issuing Office GBLOC
[028]

Code of Government office that is-
sues GBL. Qualify in N103.

Consignee GBLOC
[031]

Code of Government office respon-
sible for shipment at destination.
Qualify in N103. Not required for
freight shipments.

Tendered To Carrier SCAC
[031 120]

Use SCAC of origin carrier.
Qualify in N103.

Destination Transportation
Company SCAC
[034   ]

Use SCAC of carrier making the
delivery. Qualify in N103. Re-
quired for freight shipments only.

Diversion/Reconsignment
From SPLC
[040   ]

SPLC of location where diversion
occurs. Qualify in N103. Required
for freight shipments only.

Segment: **N2**   Additional Name Information

Level: 1

Sequence: 120

Usage: M

Max Use: 1

Loop:

Purpose: To specify additional names or those longer than 35 characters in length

Data Element Summary

Ref. Des.	Data Element	Name	Attributes
N201	93	Name	M AN 1/35
		Free-form name.	
N202	93	Name	O AN 1/35

Vessel Name
[043]

Ocean carrier's vessel name.

Segment:	**N9**	Reference Number
Level:	1	
Sequence:	150	
Usage:	M	
Max Use:	5	
Loop:		
Purpose:	To transmit identifying numbers and descriptive information as specified by the reference number qualifier	
Syntax Notes:	02 R0203 - At least one of N902 or N903 is required.	

Data Element Summary

Ref. Des.	Data Element	Name	Attributes
N901	**128**	**Reference Number Qualifier**	**M ID 2/2**

Code qualifying the Reference Number.

Air/Ocean Bill Number Qualifier [044 *]

Code	Definition
AW	Air Bill of Lading
OB	Ocean Bill of Lading

Waiver Control Number Qualifier [046 *]

Code	Definition
XC	Cargo Control Number

Ref. Des.	Data Element	Name	Attributes
N902	**127**	**Reference Number**	**C AN 1/30**

Reference number or identification number as defined for a particular Transaction Set, or as specified by the Reference Number Qualifier.

Air/Ocean Bill Number [045]

Air or ocean bill of lading number. Qualify in N901.

Waiver Control Number [047]

Use to certify U.S. Flag waiver issued. Qualify in N901.

N903	369	Free-form Description	C	AN	1/45
		Free-form descriptive text.			

Authorized Representative Name [048]

Use to certify U.S. Flag waiver issued. Qualify in N901.

N904	373	Date	O	DT	6/6
N905	337	Time	O	TM	4/6

Segment: **LX**   Assigned Number

Level: 2

Sequence: 120

Usage: M

Max Use: 1

Loop:

Purpose: To reference a line number in a transaction set.

Data Element Summary

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

Number assigned for differentiation within a transaction set.

Service Charge Loop
Identifier
[049 *]

Assign a sequential number for each charge type except as follows: 1) assign number 301 for personal property accessorial service charges performed at origin or in transit 2) assign number 302 for personal property accessorial service charges performed at destination.

Segment: **N9**   Reference Number
Level: 2
Sequence: 130
Usage: M
Max Use: 5
Loop:
Purpose: To transmit identifying numbers and descriptive information as specified by the reference number qualifier
Syntax Notes: 02 R0203 - At least one of N902 or N903 is required.

Data Element Summary

Ref. Des.	Data Element	Name	Attributes
N901	128	Reference Number Qualifier	M ID 2/2

Code qualifying the Reference Number.

Extra Pickup/Delivery Location Qualifier [049 010 *]

Code	Definition
LU	Location Number

Ref. Des.	Data Element	Name	Attributes
N902	127	Reference Number	C AN 1/30

Reference number or identification number as defined for a particular Transaction Set, or as specified by the Reference Number Qualifier.

Extra Pickup/Delivery State Code [049 015]

Use 2 character state code (FIPS-PUB-5-1) of location of extra pickup/delivery where additional service occurred. Use only for personal property shipments with DoD accessorial item codes of 101 or any item that uses rates for item 101, 112, and 502, or any item that uses rates for item 502. Qualify in N901. Not required for freight shipments.

N903	369	Free-form Description	C AN 1/45

N904	373	Date	O DT 6/6

N905   337   Time   O   TM   4/6

Segment: LO   Line Item - Quantity and Weight

Level: 2

Sequence: 170

Usage: O

Max Use: 10

Loop:

Purpose: To specify quantity, weight, volume and type of service for a line item including applicable "quantity/rate-as" data.

Syntax Notes: 02 P0203 - If either L002 or L003 is present, then the other is required.

04 P0405 - If either L004 or L005 is present, then the other is required.

06 P0607 - If either L006 or L007 is present, then the other is required.

08 P0809 - If either L008 or L009 is present, then the other is required.

11 C1104 - If L011 is present, then 04 is required.

Data Element Summary

Ref. Des.	Data Element	Name	Attributes		
L001	213	Lading Line Item Number	O	NO	1/3
L002	220	Billed/Rated-as Quantity	C	R	1/11

Basis for rating (miles, value, volume, etc.). Note: Weight may be defined by either data element 220 or 81.

Number of Units Performed
[050   ]

Number of units of service performed. Qualified in L003. Not required for freight shipments.

L003	221	Billed/Rated-as Qualifier	C	ID	2/2

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

Number of Units Performed
Qualifier
[050 010 *]

See Appendix 10.F for application.

Weight
[050 015]

The weight of the personal proper-
ty if L112 is 112A, 112B, 112C,
130D, 145B, 152D, 518A, 518C,
or 534A. Qualified in L005. Not
required for freight shipments.

| L004 | 81 | Weight | C | R | 1/8 |

Numeric value of weight.

Weight Qualifier
[050 020 *]

| L005 | 187 | Weight Qualifier | C | ID | 1/2 |

Code defining the type of weight.

Code	Definition
B	Billed Weight

| L006 | 183 | Volume | C | R | 1/8 |

| L007 | 184 | Volume Unit Qualifier | C | ID | 1/1 |

| L008 | 80 | Lading Quantity | C | NO | 1/7 |

| L009 | 211 | Packaging Form Code | C | ID | 3/3 |

| L010 | 458 | Dunnage Description | O | AN | 2/25 |

| L011 | 188 | Weight Unit Qualifier | O | ID | 1/1 |

Code specifying the weight unit.

Weight Unit Qualifier
[050 025 *]

Code	Definition
L	Pounds

| L012 | 56 | Type of Service Code | O | ID | 2/2 |

Segment: **L1**   Rate and Charges
Level: 2
Sequence: 180
Usage: O
Max Use: 10
Loop:
Purpose: To specify rate and charges detail relative to a line item including freight charges, advances, special charges, and entitlements

Syntax Notes:
04 R040506 - At least one of L104,L105 or L106 is required.
14 P1415 - If either L114 or L115 is present, then the other is required.
17 P1718 - If either L117 or L118 is present, then the other is required.

Data Element Summary

Ref. Des.	Data Element	Name	Attributes		
L101	213	Lading Line Item Number	O	N0	1/3
L102	60	Freight Rate	O	R	1/9
L103	122	Rate/Value Qualifier	O	ID	2/2
L104	58	Charge	C	N2	1/9

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.

Service Charge [051]

Charge for each service identified in L108. Implied decimal at second postion from right.

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

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

Code identifying type of special charge or allowance.

Service Charge Code
[052 *]

Services regulated by the Military Traffic Management Command (MTMC). See Billing Instructions available from DoD Payment Center for more information. See Appendix 10.F for cross reference from DoD codes to ASC X12 codes.

L109	121	Rate Class Code	O	ID	1/3
L110	39	Entitlement Code	O	ID	1/1
L111	16	Charge Method of Payment	O	ID	1/1
L112	276	Special Charge Description	O	AN	2/25

Identification of special charge. This data element is used whenever an applicable code cannot be found in data element 150.

Service Charge Description
[053 *]

Use a free form description of any third party or miscellaneous service code identified in L108. In addition, use DoD code that further describes a personal property service. See Appendix 10.F for application.

L113	257	Tariff Application Code	O	ID	1/1
L114	74	Declared Value	C	N2	2/10
L115	122	Rate/Value Qualifier	C	ID	2/2
L116	372	Lading Liability Code	O	ID	1/1
L117	220	Billed/Rated-as Quantity	C	R	1/11

L118   221   Billed/Rated-as Qualifier   C   ID   2/2

Segment:	**L7**	Tariff Reference
Level:	2	
Sequence:	200	
Usage:	O	
Max Use:	10	
Loop:		
Purpose:	To reference details of the tariff used to arrive at applicable rates or charge	
Comment:	10 L710 is the Effective Date.	
	15 "City" and "State" in L715 and L716 are used for rate combination city and state.	

Data Element Summary

Ref. Des.	Data Element	Name	Attributes		
L701	213	Lading Line Item Number	O	NO	1/3
L702	168	Tariff Agency Code	O	ID	1/4
L703	171	Tariff Number	O	AN	1/7
L704	172	Tariff Section	O	AN	1/2
L705	169	Tariff Item Number	O	AN	1/16
L706	170	Tariff Item Part	O	NO	1/2
L707	59	Freight Class Code	O	AN	2/5
L708	173	Tariff Supplement Identifier	O	AN	1/4
L709	46	Ex Parte	O	AN	4/4
L710	373	Date	O	DT	6/6
L711	119	Rate Basis Number	O	AN	1/6

L712	227	Tariff Column	O	AN	1/2
L713	294	Tariff Distance	O	N0	1/5

Distance on which the rate for a shipment is based.

Tariff/Tender Miles
[054]

Mileage used in calculating
mileage related charges. Qualify
in L714.

L714	295	Distance Qualifier	O	ID	1/1

Code identifying the distance unit.

Code	Definition
T	Tariff/Tender Miles

Tariff/Tender Miles Qualifier
[055 *]

L715	19	City Name	O	AN	2/19
L716	156	State or Province Code	O	ID	2/2

Segment: **L3**   Total Weight and Charges
Level: 3
Sequence: 10
Usage: C
Max Use: 1
Loop:
Purpose: To specify the total shipment in terms of weight, volume, rates, charges, advances, and prepaid amounts applicable to one or more line items
Comment: 05 L305 is the total charges.
Syntax Notes:
01 P0102 - If either L301 or L302 is present, then the other is required.
03 P0304 - If either L303 or L304 is present, then the other is required.
09 P0910 - If either L309 or L310 is present, then the other is required.
14 P1415 - If either L314 or L315 is present, then the other is required.

Data Element Summary

Ref. Des.	Data Element	Name	Attributes		
L301	81	**Weight** Numeric value of weight.	C	R	1/8
L302	187	**Weight Qualifier** Code defining the type of weight.	C	ID	1/2

Code	Definition
B	Billed Weight

Ref. Des.	Data Element	Name	Attributes		
L303	60	**Freight Rate**	C	R	1/9
L304	122	**Rate/Value Qualifier**	C	ID	2/2
L305	58	**Charge**	O	N2	1/9

Total Billed Weight
[055 020]

Total billed weight in pounds, rounded to whole number. If not applicable to invoice, enter 0.

Total Billed Weight Qualifier
[055 025 *]

L306	191	Advances	O	N2	1/9
L307	117	Prepaid Amount	O	N2	1/9
L308	150	Special Charge or Allowance Code	O	ID	3/3
L309	183	Volume	C	R	1/8
L310	184	Volume Unit Qualifier	C	ID	1/1
L311	80	Lading Quantity	O	N0	1/7
L312	188	Weight Unit Qualifier	O	ID	1/1
L313	171	Tariff Number	O	AN	1/7
L314	74	Declared Value	C	N2	2/10
L315	122	Rate/Value Qualifier	C	ID	2/2

Segment:	**SE**	Transaction Set Trailer
Level:	3	
Sequence:	20	
Usage:	M	
Max Use:	1	
Loop:		

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).

Comment: 00 SE is the last segment of each transaction set.

Data Element Summary

Ref. Des.	Data Element	Name	Attributes
SE01	96	**Number of Included Segments**	M NO 1/6

Total number of segments included in a transaction set including ST and SE segments.

Included Number of Segments [056]

Total segments in this transaction set including the ST and SE segments.

Ref. Des.	Data Element	Name	Attributes
SE02	329	**Transaction Set Control Number**	M AN 4/9

Identifying control number assigned by the originator for a transaction set.

Transaction Set Control Number [057]

This data element ends the transaction set and should match the number that appears in the ST02 that begins the transaction set.

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10.C Examples - X12.104 Transaction Set 210 Motor Carrier Invoice

This appendix contains an example of Transaction Set 210 as it is used for transmitting invoice information to a DoD payment cente.

The example illustrates the use of a 210 to transmit invoice information to the Defense Finance and Accounting Service - Indianapolis Center (DFAS-IN).

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Example - Invoice information from Carrier to DFAS-IN using ASC X12 210

ST*210*00001 n/l	Transaction set header
B3**7846-1112*B1562824*PP**910623*83490*	
*910623*035*PIEC n/l	Beginning segment
ITD***5.0**15 n/l	Discount terms
N9*CN*257684 n/l	Carrier reference number
N9*PQ*1633*45421 n/l	Payee code
G62*86*910622*8*1230 n/l	Pickup date and time
K1*D n/l	Damage indicator
N1*OC**2*PIEC n/l	Transportation company tendered to SCAC
N1*IU**27*LNFL n/l	Issuing Office GBLOC
N1*DC**2*PIEC n/l	Destination transportation company
LX*1 n/l	Charge loop ID
L1****60000****LHS n/l	Transportation linehaul charge
L7************567*T n/l	Tender miles
LX*2 n/l	Charge loop ID
L1****21690****EXP n/l	Accessorial services charge
LX*3 n/l	Charge loop ID
L1****1800****405 n/l	Fuel surcharge
L3*10000*B n/l	Billed Weight
SE*19*00001 n/l	Transaction set trailer

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10.F Additional DoD Code Lists

This appendix contains additional DoD code lists for formatting invoice data to the ASC X12 210 transaction set. Please note that DoD code definitions may not be exactly the same as those identified in the ASC X12 Standards publications.

Code list includes:

[051] - Service Charge Code

Footnote definitions:

* Need new X12 code

** Code to be moved from DE 152 to DE 150

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[051] Service Charge Code

Mapping: 2   180   L108   150

Accessorial Services for Freight <u>Motor</u> Shipments

DoD Code	L108 Value	DoD Definition	L112 Value
AG	AGS**	Armed Guard	
CS	CIS*	Constant Surveillance	
DD	DDP**	Dual Driver	
DN	DDN*	Dual Driver with National Agency Check	
MS	MVS**	Motor Surveillance (8 hour calls)	
MS	MMS**	Motor Surveillance (12 hour calls)	
PS	PSS**	Protective Security (without armed drivers)	
PS	PSG*	Protective Security (with armed drivers)	
SE	SEV**	Security Escort Service	
ST	675	Signature Tally	
SM	SMS**	Satellite Motor Surveillance	
AC	045	Advancing Charges	
VT	VTS*	Vehicles In Truckaway	
CB	CHN	Chains and Binders	
DP	DEP	Detention With Power Unit	
DW	DET	Detention Without Power Unit	
ER	ERS*	Empty Return	
EU	EED	Exclusive Use	
EX	EXP	Expedited Service	
HF	HHB	Handling Freight	
LU	URC	Loading/Unloading	
PR	PRL	Prelodging	
PD	PUD	Pickup/Delivery	
PT	PTS**	Protective Tarpir	
RC	RCC	Reconsignment/Diversion	
RD	RCL	Redelivery	
RV	RLS*	Relocation of Vehicle	
SP	SPU	Split Pickup/Delivery	
SO	SOC	Stop-Off	

SO	EXM*	Stop-Off (Excess Mileage Charge)	
SG	SRG	Storage	
VF	VFN*	Vehicle Furnished But Not Used	
VI	VIS*	Vehicles Inoperable	
WV	WTV	Weight Verification	
OW	PER	Overweight Permit	(2 char state code)
EM	EMT*	Empty Movement	
EF	MES	Escort (standard)	
EF	MEN*	Escort (overnight subsistance)	
EF	MET*	Escort (Telephones)	
EL	ELS*	Extra Lights	
IM	IMP*	Impactographs	
OD	520	Overdimension	
RU	SRT*	Restricted Speeds	
SR	SRS*	Surveying Routes	

Accessorial Services For Freight Bulk Fuel Shipments

DoD Code	L108 Value	DoD Definition
AC	045	Advancing Charges
CL	CLN	Cleaning
DP	DEP	Detention With Power Unit
DW	DET	Detention Without Power Unit
EH	HOS	Equipment Hose (over 36")
EH	HOX	Equipment Hose (special type)
EH	EDO*	Equipment Hose (dispatched at origin)
EH	EDD*	Equipment Hose (dispatched at destination)
EX	EXP	Expedited
LS	ADL*	Advance Loading
PD	PUD	Pickup/Delivery
PE	PAJ	Pumping Equipment
RC	RCC	Reconsignment/Diversion
RD	RCL	Redelivery
SG	SRG	Storage
SO	SOC	Stop-Off In Transit
SO	EXM	Stop-Off In Transit (Excess Mileage Charge)
SP	SPU	Split Pickup/Delivery
VF	VFN*	Vehicles Furnished But Not Used
WD	WDS*	Waterfront Delivery

Accessorial Services For Pipeline Shipments

DoD Code	L108 Value	DoD Definition
AJ	AIB*	Additional Injection/Blending Service
DE	DEL	Delivery Service
FL	FLT*	Filtration Service

Third Party or Miscellaneous Services

DoD Code	L108 Value	DoD Definition	L112 Value
-	SPC	Overdimension Permit	-
-	BRD	Bridge Tolls	-
-	IHT	Highway Tolls	-
-	TPS*	Third Party/Miscellaneous Service	Description

Linehaul Services

DoD Code	L108 Value	DoD Definition	L112 Value
-	LHS*	Linehaul service	-

Surcharges

DoD Code	L108 Value	DoD Definition	L112 Value
-	100	Air	-
-	405	Fuel	-

Accessorial Services for Personal Property Shipment (Domestic)

See DoD EDI Convention for Transaction Set 859 Generic Freight Invoice

Accessorial Services for Personal Property Shipments (International)

See DoD EDI Convention for Transaction Set 859 Generic Freight Invoice

Accessorial Services for Freight Air Shipments

See DoD EDI Convention for Transaction Set 110 Air Freight Invoice

Accessorial Services for Freight Rail Shipments

See DoD EDI Convention for Transaction Set 410 Rail Carrier Invoice

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W. Michael Bridges and Harold L. Frohman

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Logistics Management Institute
6400 Goldsboro Road
Bethesda, MD 20817-5886

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This is an electronic data interchange (EDI) systems design document that describes the standard or "convention" the Department of Defense (DoD) will use to accept a transaction invoice using the ASC X12.104 Transaction Set 210 Motor Carrier Invoice (003020).

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