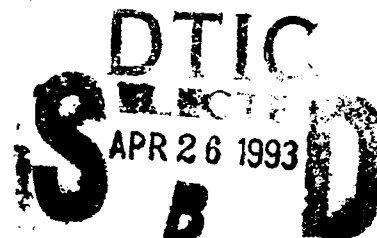


2

AD-A263 356

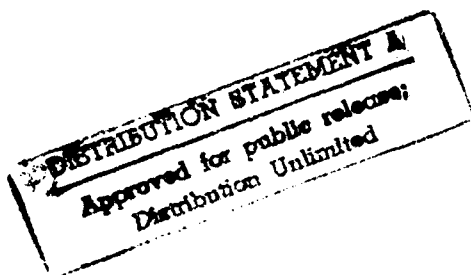


Department
of
Defense



DoD
Electronic Data
Interchange (EDI)
Convention

ASC X12 Transaction Set 810
Invoice (Commercial)
(Version 003010)



This document was prepared by the Logistics Management Institute for the Defense Finance and Accounting Service - Indianapolis Center, and the Defense Logistics Agency under Task DF101. The task was performed under Contract MDA903-90-C-0006 with the Department of Defense. Permission to quote or reproduce any part of this document except for Government purposes must be obtained from the Department of Defense Executive Agent for Electronic Commerce/Electronic Data Interchange/Protection of Logistics Unclassified/Sensitive Systems.

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

93-08751



10.0 DoD EDI CONVENTION

**ASC X12 TRANSACTION SET 810 INVOICE
(COMMERCIAL) (VERSION 003010)**

**FORMATTING INVOICE INFORMATION FOR THE DoD PAY-
MENT SYSTEM USING THE ASC X12 TRANSACTION SET 810
INVOICE (COMMERCIAL).**

{BLANK PAGE}

Contents

FORMATTING INVOICE INFORMATION FOR THE DoD PAY-
MENT SYSTEM USING THE ASC X12 TRANSACTION SET 810
INVOICE (COMMERCIAL).

- 10.I Introduction
- 10.1 Reserved
- 10.2 Control Segments
- 10.3 Reserved
- 10.4 Reserved
- 10.5 Data Element Cross-Reference Matrix
- 10.6 Reserved
- 10.7 DoD Convention
- 10.A Reserved
- 10.B Reserved
- 10.C Examples - Invoice Information From Invoicing
Party to DFAS Using ASC X12 810
- 10.D Reserved
- 10.E Reserved
- 10.F Additional Government Code Lists

Accession For		☒
NTIS GRA&I		☐
DTIC TAB		☐
Unannounced		
Justification		
By _____		
Distribution/		
Availability Codes		
Dist	Avail and/or	Special
A-1		

DTIC QUALITY IMPROVEMENT 4

{BLANK PAGE}

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 an invoice using the ASC X12 Transaction Set 810 Invoice (003010). 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 when sending and receiving 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.

{BLANK PAGE}

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 1 (003010).

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.

{BLANK PAGE}

TABLE 10.2-1

Control Segment Hierarchy

{BLANK PAGE}

Interchange Control Envelope
Control Segments

	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 •			
USE	30	GE	Functional Group Trailer	M	1	
USE	40	IEA	Interchange Control Trailer	M	1	

{BLANK PAGE}

TABLE 10.2-2

DoD Convention

ASC X12 Control Segments

{BLANK PAGE}

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 set by the interchange control header. For a particular 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

<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>				
ISA01	I01	Authorization Information Qualifier Code to identify the type of information in the Authorization Information.	M ID 2/2				
<table><tr><th><u>Code</u></th><th><u>Definition</u></th></tr><tr><td>00</td><td>No Authorization Information Present</td></tr></table>				<u>Code</u>	<u>Definition</u>	00	No Authorization Information Present
<u>Code</u>	<u>Definition</u>						
00	No Authorization Information Present						
ISA02	I02	Authorization Information Information used for additional identification or authorization of the sender or the data in the interchange.	M AN 10/10				
ISA03	I03	Security Information Qualifier Code to identify the type of information in the security information.	M ID 2/2				

Authorization Qualifier
[001]

Authorization Info
[002]

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

Security Qualifier
[003]

Code Definition

00 No security information present.

Security Info
[004]

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

ISA04 I04 Security Information M AN 10/10
This is used for identifying the security information about the sender or the data in the interchange.

Sender Qualifier
[005]

Use authorized X12 code list.

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 Id
[006]

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

ISA06 I06 Interchange Sender's Id M ID 15/15
Identification code published by the sender for other parties to use as the receiver ID to route data to them.

Interchange Qualifier
[007]

Use authorized X12 code list.

ISA07 I05 Interchange Id Qualifier M ID 2/2
Code to identify the type of information in the Authorization Information.

Receiver Id
[008]

DoD activities use Department of
Defense Activity Address Code
(DoDAAC) or other code coor-
dinated with the value-added net-
work (VAN). Non-DoD activities use
identification code qualified by
ISA05 and coordinated with the VAN.

Date
[009]

Assigned by translation software.

Time
[010]

Assigned by translation software.

Standards Id
[011]

Version Id
[012]

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

ISA08 107 Interchange Receiver's Id M ID 15/15
Identification code published by the receiver of the
data.

ISA09 108 Interchange Date M DT 6/6
Date of the interchange.

ISA10 109 Interchange Time M TM 4/4
Time of the interchange.

ISA11 110 Interchange Control Standard M ID 1/1
Identifier
Code to identify the agency responsible for the con-
trol standard used by the message that is enclosed
by the interchange header and trailer.

ISA12 111 Interchange Control Version M ID 5/5
This version number covers the interchange control
segments and the functional group control segments.

Code	Definition
03010	Draft Standard for Trial Use Approved for Publication by ASC X12 Procedures Review Board Through October 1990

Interchange Control Number
[013]
Assigned by translation software.

Acknowledgment Request
[014]
Code value agreed upon by trading
partners.

Test Indicator
[015]
Code value agreed upon by trading
partners.

Subelement Separator
[016]
Use ASCII character 58, colon ':'.

ISA13 I12 Interchange Control Number M N0 9/9

This number uniquely identifies the interchange
data to the sender.

ISA14 I13 Acknowledgment Requested M ID 1/1

Code sent by the sender to request an interchange
acknowledgement.

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.

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.

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.	

Code Definition

IN 810 - Invoice Information

Functional Id
[020]

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 ID 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 ID 2/12
		Code identifying party receiving transmission. Codes	

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. Date [023] Assigned by translation software. Time [024] Assigned by translation software. Group Control Number [025] Assigned by translation software. Agency Code [026] Indicates that an ANSI X12 standard is being transmitted.	agreed to by trading partners. GS04 29 Group Date M DT 6/6 Date sender generated a functional group of transaction sets. 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). GS06 28 Group Control Number M NO 1/9 Assigned number originated and maintained by the sender. 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 GS08 480 Version/Release/Industry Id
--	---

M ID 1/12

Code

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

Version/Release
[027]

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

Code Definition

003010 Draft Standards Approved By ASC X12 Through
 June 1990

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 NO 1/6
		Total number of transaction sets included in the functional group or interchange (transmission) group terminated by the trailer containing this data element.	
GE02	28	Group Control Number	M NO 1/9
		Assigned number originated and maintained by the sender.	

Number of Segments
[028]

Assigned by the translation
software.

Group Control Number
[029]

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

Segment: IEA Interchange Control Trailer

Usage: M

Purpose: 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.

{BLANK PAGE}

10.5 DATA ELEMENT CROSS-REFER- ENCE MATRIX

Overview

This chapter lists the data element cross-reference between the Department of Defense (DoD) ASC X12 Transaction Set 810 Invoice (003010). We derived the cross-reference from the following:

- Examination of DoD invoice information data requirements.
- Analysis of ASC X12 Transaction Set 810 Invoice.
- Comments submitted by DoD activities 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 810. 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 810 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 Transaction Set 810 Invoice.

{BLANK PAGE}

TABLE 10.5-1

DATA ELEMENT CROSS-REFERENCE

DoD Invoice Data Using ASC X12 Transaction Set 810 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 810. 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 an 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 810. 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.

{BLANK PAGE}

TENDER DATA NAME	INDEX	Q	A	POS	REF DES	DE #	VALUE	DoD CONVENTION	DoD ReqDes
Transaction Set Identifier Code	[001 A]	*	1	10	ST01	143	810 - X12.2 Invoice		
The following comments provide mapping instructions or establishing a Commercial Invoice.									
Transaction Set Control Number	[002 A]	1	10	10	ST02	329		Control No, (same number will be found in SE02 in Summary).	
Invoice Date	[003 A]	1	20	20	BIG01	245		Invoice Date, expressed as YYMMDD.	
Invoice Number	[004 A]	1	20	20	BIG02	76		A unique number assigned by the Billing Party.	
Purchase Order Number	[005 A]	1	20	20	BIG04	324		Procurement Instrument Identification Number, (PIIN).	
Release Number	[006 A]	1	20	20	BIG05	328		Call/order number.	
Change Order Sequence Number	[007 A]	1	20	20	BIG06	327		Modification Number, (SPIIN).	
Transaction Type Code	[008 A]	*	1	20	BIG07	640	CN - Credit Invoice CO - Corrected DI - Debit Invoice RE - Rebill	Use code RE for a selling party generated request to withdraw, without processing, a previously submitted Invoice.	

- Bill of Lading Number
- Shipper's Identifying Number for Shipment
- Vendor ID number
- Mutually Defined

NOTE: A. Use code SI for Shipment Number and code ZZ for the indicator when applicable to the entire invoice. However, use code ZZ only when indicating a final shipment. When REF01 is code ZZ, insert the letter Z in REF02. Use code VR to carry the seller's unique identification number.

Reference Number	[010 A]	1	50	REF02	127
Entity Identifier Code	[011 A]	*	1	70	N101 98 PR - Paying Office SE - Selling Party
Name	[012 A]	1	70	N102	93
Use only when address of the Selling Party (N101 code SE) cannot be described using that party's CAGE Code (N103 code 33 and N104, the actual CAGE Code).					
Identification Code Qualifier	[013 A]	*	1	70	N103 66 10 - DODAAC 33 - CAGE
Use code 10 when N101 is code PR, use code 33 when 101 is code SE.					
Identification Code	[014 A]	1	70	N104	67
Use actual DODAAC of Paying Office or Cage Code of Selling Party.					
Name	[015 A]	1	80	N201	93
Use only when address cannot be described using a code in the N1 segment.					
Name	[016 A]	1	80	N202	93
Use only when address cannot be described using a code in the N1 segment.					

TENDER DATA NAME	INDEX	Q	A	POS	REF DES	DE #	VALUE	DoD CONVENTION	DoD Req/Des
Address Information	[017 A]		1	90	N301	166		Use only when address cannot be described using a code in the N1 segment. street name, suite, apartment or office number. For example: 10 Main Street, Suite 300.).	
Address Information	[018 A]		1	90	N302	166			
City Name	[019 A]		1	100	N401	19		If needed, an additional 2nd line of address, use only when address cannot be described using a code in the N1 segment.	
State or Province Code	[020 A]		1	100	N402	156		City Name, use only when address cannot be described using a code in the N1 segment.	
Postal Code	[021 A]		1	100	N403	116		Two-character code for State.	
Terms Type Code	[022 A]	*	1	130	ITD01	336	16	Zip Code. - Prompt Payment Act	
Terms Discount Percent	[023 A]		1	130	ITD03	336		Use code 16 when invoice is subject to the fast pay provision of the Prompt Payment Act.	
Terms Discount Days Due	[024 A]		1	130	ITD05	351		Discount Percent.	
Terms Net Days	[025 A]		1	130	ITD07	366		Discount Days.	
Date/Time Qualifier	[026 A]	*	1	140	DTM01	374	011	- Shipped	

Date

[027 A] 1 140 DTM02 373

Actual Ship Date when date applies to entire invoice.

Assigned Identification

[028 A] 2 10 IT101 350

REQUIRED CLIN or SUBCLIN.

Quantity Invoiced

[029 A] 2 10 IT102 358

Unit of Measurement Code

[030 A] 2 10 IT103 355

Use any code.

Unit Price

[031 A] 2 10 IT104 212

Unit Price, as specified in the contract, of the CLIN or SUBCLIN carried in IT101. The extended amount for each line item (Quantity Invoiced from IT102, Unit Price from IT104) will be calculated by the application program.

Product/Service ID Qualifier

[032 A] * 2 10 IT106 235 FS - National Stock Number

Use code FS for National Stock Number.

Product/Service ID

[033 A] 2 10 IT107 234

Item Description Type

[034 A] * 2 60 PID01 349 F - Free-Form

Use code F to satisfy the syntax.

Description

[035 A] 2 60 PID05 352

Description of cited line or subtitle item.

Reference Number Qualifier

[036 A] * 2 120 REF01 128 SI - Shipper's Identifying Number for Shipment
ZZ - Mutually Defined

Use code SI for Shipment Number and code ZZ for the Indicator when applicable to the entire invoice. However, use code ZZ only when indicating a final shipment. When REF01 is code ZZ, insert the letter Z in REF02.

Reference Number

[037 A] 2 120 REF02 127

Date/Time Qualifier

[038 A] * 2 150 DTM01 374 011 - Shipped

TENDER DATA NAME	INDEX	Q	A	POS	REF DES	DE #	VALUE	DoD CONVENTION	DoD ReqDes
Date	[039 A]		2	150	DTM02	373			
Actual Shipment Date for cited line or subline item.									
Total Invoice Amount	[040 A]		3	10	TDS01	361			
Transportation Method/Type Code	[041 A]		3	30	CAD01	91			
NOTE: A. Use any code.									
Routing	[042 A]		3	30	CAD05	387			
Insert number 1 to satisfy syntax requirement. B. Codes in DE 91 may have to be converted to DoD codes (see table at end of this Implementation convention).									
Allowance or Charge Indicator	[043 A]	*	3	40	ITA01	248	C	- Charge	
Allowance or Charge Method of Handling Code	[044 A]	*	3	40	ITA04	331	06	- Charge to be Paid by Customer	
Allowance or Charge Total Amount	[045 A]		3	40	ITA07	360			
Number of Line Items	[046 A]		3	70	CTT01	354			
CTT01 will carry the accumulation of the number of IT1 segments contained in the transaction set.									
Number of Included Segments	[047 A]		3	80	SE01	96			
Transaction Set Control Number	[048 A]		3	80	SE02	329			
Control No, (same number will be found in ST02 in Header.)									

10.7 DoD CONVENTIONS

Overview

This chapter is the convention for the ASC X12 Transaction Set 810 (Version 003010) as used by the Department of Defense for accepting an 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 Transaction Set 810 Invoice.

A relational database management system was used to merge the Data Element Cross-Reference Matrix and a Transaction Set 810 database into the subset of 810 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 810. All trading partners who plan to exchange the Transaction Set 810 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 Transaction Set 810 Segment Hierarchy describes the 810 segments as they appear in the ASC X12 Standards Dictionary.
- Table 10.7-2, DoD Model Transaction Set 810 Segment Hierarchy describes the subset of 810 segments used for sending commercial invoices.
- Table 10.7-3, Conventions is a detailed description of the Department of Defense conventions for transmitting Transaction Set 810. All segments identified in Table 10.7-2 are detailed in Table 10.7-3 by segment, position, and code value.

{BLANK PAGE}

TABLE 10.7-1

SEGMENT HIERARCHY

ASC X12 TRANSACTION SET 810
INVOICE (Version 003010)

{BLANK PAGE}

ASC X12.xx Transaction Set810V310
Transaction Set Name and Version
Segment Hierarchy

Table 1 - Header Area

	Pos No.	Seg ID	Name	Req Des	Use	Loop
USE	10	ST	Transaction Set Header	M	1	
USE	20	BIG	Beginning Segment for Invoice	M	1	
	30	NTE	Note/Special Instruction	F	100	
	40	CUR	Currency	O	1	
USE	50	REF	Reference Numbers	O	12	
	60	PER	Administrative Communications Contact	O	3	
USE	70	N1	Name	O	1	N1\200
USE	80	N2	Additional Name Information	O	2	
USE	90	N3	Address Information	O	2	
USE	100	N4	Geographic Location	O	1	
	110	REF	Reference Numbers	O	12	
	120	PER	Administrative Communications Contact	O	3	
USE	130	ITD	Terms of Sale/Deferred Terms of Sale	O	5	
USE	140	DTM	Date/Time Reference	O	10	
	150	FOB	F.O.B. Related Instructions	O	1	
	160	PID	Product/Item Description	O	200	
	170	MEA	Measurements	O	40	
	180	PWK	Paperwork	O	25	
	190	PKG	Marking, Packaging, Loading	O	25	
	200	L7	Tariff Reference	O	1	

Table 2 - Detail Area

	Pos No.	Seg ID	Name	Req Des	Use	Loop
USE	10	IT1	Baseline Item Data (Invoice)	O	1	IT1\200000
	20	CUR	Currency	O	1	
	30	IT3	Additional Item Data	O	5	
	40	TXI	Tax Information	O	10	
	50	CTP	Pricing Information	O	25	

	59	MEA	Measurements	O	40	
USE	60	PID	Product/Item Description	O	1	PID\1000
	70	MEA	Measurements	O	10	
	80	PWK	Paperwork	O	25	
	90	PKG	Marking, Packaging, Loading	O	25	
	100	PO4	Item Physical Details	O	1	
	110	ITD	Terms of Sale/Deferred Terms of Sale	O	2	
USE	120	REF	Reference Numbers	O	1	
	130	PER	Administrative Communications Contact	O	5	
USE	140	SDQ	Destination Quantity	O	500	
	150	DTM	Date/Time Reference	O	10	
	160	CAD	Carrier Detail	O	1	
	170	L7	Tariff Reference	O	1	
	180	ITA	Allowance, Charge or Service	O	1	ITA\10
	190	TXI	Tax Information	O	10	
	200	SLN	Subline Item Detail	O	1	SLN\1000
	210	REF	Reference Numbers	O	1	
	220	PID	Product/Item Description	O	1000	
	230	ITA	Allowance, Charge or Service	O	10	
	240	N1	Name	O	1	N1\200
	250	N2	Additional Name Information	O	2	
	260	N3	Address Information	O	2	
	270	N4	Geographic Location	O	1	
	280	REF	Reference Numbers	O	12	
	290	PER	Administrative Communications Contact	O	3	
Table 3 - Summary Area						
	Pos No.	Seg ID	Name	Req Des	Use	Loop
USE	10	TDS	Total Monetary Value Summary	M	1	
	20	TXI	Tax Information	O	10	
USE	30	CAD	Carrier Detail	O	1	
USE	40	ITA	Allowance, Charge or Service	O	1	ITA\10

	50	TXI	Tax Information	O	10
USE	60	ISS	Invoice Shipment Summary	O	5
USE	70	CTT	Transaction Totals	M	1
	80	SE	Transaction Set Trailer	M	1

TABLE 10.7-2

SEGMENT HIERARCHY

DoD MODEL FOR TRANSACTION SET 810 INVOICE

{BLANK PAGE}

ASC X12.xx Transaction Set810V310
Transaction Set Name and Version
Segment Hierarchy

Table 1 - Header Area

	Pos No.	Seg ID	Name	Req Des	Use	Loop
USE	10	ST	Transaction Set Header	M	1	
USE	20	BIG	Beginning Segment for Invoice	M	1	
USE	50	REF	Reference Numbers	O	12	
USE	70	N1	Name	O	1	N1\200
USE	80	N2	Additional Name Information	O	2	
USE	90	N3	Address Information	O	2	
USE	100	N4	Geographic Location	O	1	
USE	130	ITD	Terms of Sale/Deferred Terms of Sale	O	5	
USE	140	DTM	Date/Time Reference	O	10	

Table 2 - Detail Area

	Pos No.	Seg ID	Name	Req Des	Use	Loop
USE	10	IT1	Baseline Item Data (Invoice)	O	1	IT1\200000
USE	60	PID	Product/Item Description	O	1	PID\1000
USE	120	REF	Reference Numbers	O	1	
USE	150	DTM	Date/Time Reference	O	10	

Table 3 - Summary Area

	Pos No.	Seg ID	Name	Req Des	Use	Loop
USE	10	TDS	Total Monetary Value Summary	M	1	
USE	30	CAD	Carrier Detail	O	1	
USE	40	ITA	Allowance, Charge or Service	O	1	ITA\10
USE	70	CTT	Transaction Totals	M	1	
USE	80	SE	Transaction Set Trailer	M	1	

{BLANK PAGE}

TABLE 10.7-3

DoD 810 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 810.

1. Identify a segment from a populated transaction set (See Appendix 10.C for examples of the 810).
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 Table 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
Table: 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: A. 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 Identifier Code
[001 A *]

The following comments provide mapping instructions for establishing a Commercial Invoice.

Code Definition

810	X12.2 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 A]

Control No. (same number will be found in SE02 in Summary).

Segment: BIG Beginning Segment for Invoice
Table: 1
Sequence: 20
Usage: M
Max Use: 1
Loop:

Purpose: To indicate the beginning of an invoice transaction set and to transmit identifying numbers and dates.

Comment: A BIG07 is used only to further define the type of invoice when needed.

Data Element Summary

Ref. Des.	Data Element	Name	Attributes
BIG01	245	Invoice Date Invoice Issue Date.	M DT 6/6
BIG02	76	Invoice Number Identifying number assigned by issuer.	M AN 1/22
BIG03	323	Purchase Order Date	O DT 6/6
BIG04	324	Purchase Order Number Identifying number for Purchase Order assigned by the orderer/purchaser.	O AN 1/22

Invoice Date
[003 A]

Invoice Date, expressed as YYMMDD.

Invoice Number
[004 A]

A unique number assigned by the Billing Party.

Purchase Order Number
[005 A]

Procurement Instrument Identification Number, (PIIN).

Release Number
[006 A]

Call/order number.

Change Order Sequence
Number
[007 A]

Modification Number, (SPIIN).

Transaction Type Code
[008 A *]

Use code RE for a selling party
generated request to withdraw,
without processing, a previously sub-
mitted invoice.

BIG05 328 Release Number O AN 1/30
Number identifying a release against a Purchase
Order previously placed by the parties involved in
the transaction.

BIG06 327 Change Order Sequence Number O AN 1/8
Number assigned by the orderer identifying a
specific change or revision to a previously trans-
mitted transaction set.

BIG07 640 Transaction Type Code O ID 2/2
Code specifying the type of transaction.

<u>Code</u>	<u>Definition</u>
-------------	-------------------

CN	Credit Invoice
CO	Corrected
DI	Debit Invoice
RE	Rebill

Segment: **REF** Reference Numbers
Table: 1
Sequence: 50
Usage: O
Max Use: 12
Loop:
Purpose: To specify identifying numbers.
Syntax Notes: 02 Either REF02 or REF03 is required.

Data Element Summary

Ref. Des.	Data Element	Name	Attributes
REF01	128	Reference Number Qualifier	M ID 2/2
Code qualifying the Reference Number.			

Reference Number Qualifier [009 A *]

NOTE: A. Use code SI for Shipment Number and code ZZ for the indicator when applicable to the entire invoice. However, use code ZZ only when indicating a final shipment. When REF01 is code ZZ, insert the letter Z in REF02. When REF01 is the Payment System Code, use code PQ to indicate that Payment System Number is carried in REF02. Use code VR to carry the seller's unique identification number.

Code	Definition
BL	Government Bill of Lading
BM	Bill of Lading Number
PQ	Payee Identification
SI	Shipper's Identifying Number for Shipment
VR	Vendor ID number
ZZ	Mutually Defined

Reference Number [010 A]

REF02	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.			

REF03	352	Description	C AN 1/80
-------	-----	-------------	-----------

Segment: N1 **Name**
Table: 1
Sequence: 70
Usage: O
Max Use: 1
Loop: N1/200
Purpose: To identify a party by type of organization, name and code
Comment: A. 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: 01 At least one of N102 or N103 must be present.
02 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.	
		<u>Code</u>	<u>Definition</u>
		PR	Paying Office
		SE	Selling Party
N102	93	Name	C AN 1/35
		Free-form name.	

Entity Identifier Code
[011 A *]

Name
[012 A]

Use only when address of the Selling Party (N101 code SE) cannot be described using that party's CAGE Code (N103 code 33 and N104, the actual CAGE Code).

Identification Code Qualifier [013 A *] Use code 10 when N101 is code PR, use code 33 when N101 is code SE.		N103	66 Identification Code Qualifier Code designating the system/method of code structure used for Identification Code (67).	C ID 1/2
Identification Code [014 A] Use actual DODAAC of Paying Office or Cage Code of Selling Party.		N104	67 Identification Code Code identifying a party.	C ID 2/17

Code	Definition
10	DODAAC
33	CAGE

Segment: **N2** Additional Name Information
Table: 1
Sequence: 80
Usage: O
Max Use: 2
Loop: N1
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 Free-form name.	M AN 1/35
N202	93	Name Free-form name.	O AN 1/35

Name
[015 A]

Use only when address cannot be
described using a code in the N1
segment.

Name
[016 A]

Use only when address cannot be
described using a code in the N1
segment.

Segment: N3 Address Information
Table: 1
Sequence: 90
Usage: O
Max Use: 2
Loop: N1
Purpose: To specify the location of the named party

Data Element Summary

<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
N301	166	Address Information Address information	M AN 1/35
N302	166	Address Information Address information	O AN 1/35

Address Information
[017 A]

Use only when address cannot be described using a code in the N1 segment. (If used, carry items such as building number, street name, suite, apartment or office number. For example: 10 Main Street, Suite 300.).

Address Information
[018 A]

If needed, an additional 2nd line of address, use only when address cannot be described using a code in the N1 segment.

Segment: N4 Geographic Location
Table: 1
Sequence: 100
Usage: O
Max Use: 1
Loop: N1
Purpose: To specify the geographic place of the
named party

Comment: A. A combination of either N401 through
N404 (or N405 and N406) may be ade-
quate to specify a location.
B. N402 is required only if city name
(N401) is in the USA or Canada.

Syntax Notes: 01 At least one of N401 or N405 must be
present.
02 If N401 is present, then N402 is re-
quired.
03 If either N405 or N406 is present, then
the other is required.

Data Element Summary

Ref. Des.	Data Element	Name	Attributes
N401	19	City Name Free-form text for city name.	C AN 2/19
N402	156	State or Province Code Code (Standard State/Province) defined by ap- propriate governmental agencies.	C ID 2/2
N403	116	Postal Code Code defining international postal zone code exclud- ing punctuation and blanks (zip code for United States).	O ID 4/9

City Name
[019 A]

City Name, use only when address
cannot be described using a code
in the N1 segment.

State or Province Code
[020 A]

Two-character code for State.

Postal Code
[021 A]

Zip Code.

N404	26	Country Code	O	ID	2/2
N405	309	Location Qualifier	O	ID	1/2
N406	310	Location Identifier	C	AN	1/25

Segment: ITD Terms of Sale/Deferred Terms
of Sale

Table: 1

Sequence: 130

Usage: O

Max Use: 5

Loop:

Purpose: To specify terms of sale.

Comment: A. If the code in ITD01 is 04, then ITD09
is required and either ITD11 or ITD12
is required. If the code in ITD01 equals
05, then ITD06 or ITD07 is required.

Syntax Notes: 01 If ITD03 is present, then at least one of
ITD04, ITD05, ITD13 is required.
02 If ITD08 is present, then at least one of
ITD04, ITD05 or ITD13 is required.
03 If ITD09 is present, then ITD10 or
ITD11 is required.

Data Element Summary

Ref. Des.	Data Element	Name	Attributes
ITD01	336	Terms Type Code Code identifying type of payment terms.	O ID 2/2

Terms Type Code
[022 A *]

Use code 16 when invoice is subject
to the fast pay provision of the
Prompt Payment Act.

Code	Definition
16	Prompt Payment Act

ITD02	333	Terms Basis Date Code	O ID 1/2
-------	-----	-----------------------	----------

ITD03	338	Terms Discount Percent Terms discount percentage, expressed as a percent, available to the purchaser if an invoice is paid on or before the Terms Discount Due Date.	O R 1/6
-------	-----	---	---------

Terms Discount Percent
[023 A]

Discount Percent.

ITD04	370	Terms Discount Due Date	C DT 6/6
-------	-----	-------------------------	----------

Terms Discount Days Due
[024 A]
Discount Days.

Terms Net Days
[025 A]

ITD05	351	Terms Discount Days Due	C	N0	1/3
		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	N0	1/3
		Number of days until total invoice amount is due (discount not applicable).			
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	N0	1/2
ITD14	107	Payment Method Code	O	ID	1/1

Segment: DTM Date/Time Reference
Table: 1
Sequence: 140
Usage: O
Max Use: 10
Loop:
Purpose: To specify pertinent dates and times
Syntax Notes: 01 At least one of DTM02 or DTM03
must be present.

Data Element Summary

Ref. Des.	Data Element	Name	Attributes
DTM01	374	Date/Time Qualifier Code specifying type of date or time, or both date and time.	M ID 3/3
		<u>Code</u> <u>Definition</u>	
		011 Shipped	
DTM02	373	Date Date (YYMMDD).	C DT 6/6
DTM03	337	Time	C TM 4/4
DTM04	623	Time Code	O ID 2/2

Date/Time Qualifier
[026 A *]

Date
[027 A]

Actual Ship Date when date applies
to entire invoice.

Segment: IT1 **Baseline Item Data (Invoice)**
Table: 2
Sequence: 10
Usage: O
Max Use: 1
Loop: IT1/200000
Purpose: To specify the basic and most frequently used line item data for the invoice and related transactions.

Comment: A. Element 235/234 combinations should be interpreted to include products and/or services. See the Data Dictionary for a complete list of ID's.
B. IT101 is the purchase order line item identification.
C. IT106 through IT125 provides for ten (10) different product/service ID's for each item. For example: Case, Color, Drawing No., UPC No., ISBN No., Model No., SKU.

Syntax Notes: 01 If IT106 is present, then IT107 is required.
02 If IT108 is present, then IT109 is required.
03 If IT110 is present, then IT111 is required.
04 If IT112 is present, then IT113 is required.
05 If IT114 is present, then IT115 is required.
06 If IT116 is present, then IT117 is required.
07 If IT118 is present, then IT119 is required.
08 If IT120 is present, then IT121 is required.
09 If IT122 is present, then IT123 is required.
10 If IT124 is present, then IT125 is required.

Data Element Summary

<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
IT101	350	Assigned Identification	O AN 1/6
		Alphanumeric characters assigned for differentia-	

Assigned Identification
[028 A]

REQUIRED

CLIN or SUBCLIN.

Quantity Invoiced
[029 A]

Unit of Measurement Code
[030 A *]

Use any code.

Unit Price
[031 A]

Unit Price, as specified in the contract, of the CLIN or SUBCLIN carried in IT101. The extended amount for each line item (Quantity Invoiced from IT102, Unit Price from IT104) will be calculated by the application program.

Product/Service ID Qualifier
[032 A *]

Use code FS for National Stock Number.

tion within a transaction set.

IT102 358 Quantity Invoiced M R 1/10
Number of units invoiced (supplier units).

IT103 355 Unit of Measurement Code M ID 2/2
Code identifying the basic unit of measurement.

IT104 212 Unit Price M R 1/14
Price per unit of product, service, commodity, etc.

IT105 639 Basis of Unit Price Code O ID 2/2

IT106 235 Product/Service ID Qualifier O ID 2/2
Code identifying the type/source of the descriptive number used in Product/Service ID (234).

Code Definition

FS National Stock Number

Product/Service ID
[033 A]

IT107	234	Product/Service ID	C	AN	1/30
Identifying number for a product or service.					
IT108	235	Product/Service ID Qualifier	O	ID	2/2
IT109	234	Product/Service ID	C	AN	1/30
IT110	235	Product/Service ID Qualifier	O	ID	2/2
IT111	234	Product/Service ID	C	AN	1/30
IT112	235	Product/Service ID Qualifier	O	ID	2/2
IT113	234	Product/Service ID	C	AN	1/30
IT114	235	Product/Service ID Qualifier	O	ID	2/2
IT115	234	Product/Service ID	C	AN	1/30
IT116	235	Product/Service ID Qualifier	O	ID	2/2
IT117	234	Product/Service ID	C	AN	1/30
IT118	235	Product/Service ID Qualifier	O	ID	2/2
IT119	234	Product/Service ID	C	AN	1/30
IT120	235	Product/Service ID Qualifier	O	ID	2/2
IT121	234	Product/Service ID	C	AN	1/30
IT122	235	Product/Service ID Qualifier	O	ID	2/2
IT123	234	Product/Service ID	C	AN	1/30

IT124	235	Product/Service ID Qualifier	O	ID	2/2
IT125	234	Product/Service ID	C	AN	1/30

Segment: **PID** Product/Item Description
Table: 2
Sequence: 60
Usage: O
Max Use: 1
Loop: PID/1000
Purpose: To describe a product or process in coded or free-form format
Comment: A. When PID01 is "F", PID04 is not used.
B. Use PID03 to indicate the organization that publishes the code list being referred to.
C. PID04 should be used for industry-specific product description codes.
D. Use PID06 when necessary to refer to the product surface or layer being described in the segment.
Syntax Notes: 04 If PID04 is present, then PID03 is required. At least one of PID04 or PID05 must be present.

Data Element Summary

<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>						
PID01	349	Item Description Type Code indicating the format of a description.	M	ID	1/1				
<table><tr><th><u>Code</u></th><th><u>Definition</u></th></tr><tr><td>F</td><td>Free-Form</td></tr></table>						<u>Code</u>	<u>Definition</u>	F	Free-Form
<u>Code</u>	<u>Definition</u>								
F	Free-Form								
PID02	750	Product/Process Characteristic Code	O	ID	2/3				
PID03	559	Association Qualifier Code	C	ID	2/2				
PID04	751	Product Description Code	C	ID	1/12				

Item Description Type
[034 A *]

Use code F to satisfy the syntax.

Description
[035 A]
Description of cited line or subline
item.

PID05 352 Description C AN 1/80
A free-form description to clarify the related data
elements and their content.

PID06 752 Surface/Layer/Position Code O ID 2/2

Segment: **REF** Reference Numbers
Table: 2
Sequence: 120
Usage: O
Max Use: 1
Loop: IT1
Purpose: To specify identifying numbers.
Syntax Notes: 02 Either REF02 or REF03 is required.

Data Element Summary

Ref. Des.	Data Element	Name	Attributes
REF01	128	Reference Number Qualifier Code qualifying the Reference Number.	M ID 2/2

Reference Number Qualifier
[036 A *]

Use code SI for Shipment Number and code ZZ for the Indicator when applicable to the entire invoice. However, use code ZZ only when indicating a final shipment. When REF01 is code ZZ, insert the letter Z in REF02.

Code Definition

SI	Shipper's Identifying Number for Shipment
ZZ	Mutually Defined

REF02	127	Reference Number Reference number or identification number as defined for a particular Transaction Set, or as specified by the Reference Number Qualifier.	C AN 1/30
-------	-----	---	-----------

Reference Number
[037 A]

REF03	352	Description	C AN 1/80
-------	-----	-------------	-----------

Segment: DTM Date/Time Reference
Table: 2
Sequence: 150
Usage: O
Max Use: 10
Loop: IT1
Purpose: To specify pertinent dates and times
Syntax Notes: 01 At least one of DTM02 or DTM03
must be present.

Data Element Summary

Ref. Des.	Data Element	Name	Attributes
DTM01	374	Date/Time Qualifier Code specifying type of date or time, or both date and time.	M ID 3/3
		<u>Code</u> <u>Definition</u>	
		011 Shipped	
DTM02	373	Date Date (YYMMDD).	C DT 6/6
DTM03	337	Time	C TM 4/4
DTM04	623	Time Code	O ID 2/2

Date/Time Qualifier
[038 A *]

Date
[039 A]

Actual Shipment Date for cited line
or subline item.

Segment: TDS Total Monetary Value Summary
Table: 3
Sequence: 10
Usage: M
Max Use: 1
Loop:
Purpose: To specify the total invoice discounts and amounts
Comment: A. TDS02 is required if the dollar value subject to discount is not equal to the dollar value of TDS01.

Data Element Summary

Ref. Des.	Data Element	Name	Attributes
TDS01	361	Total Invoice Amount Amount of invoice (including charges, less allowances) before terms discount (if discount is applicable).	M N2 1/10
TDS02	390	Amount Subject to Terms Discount	C N2 1/10
TDS03	391	Discounted Amount Due	O N2 1/10
TDS04	362	Terms Discount Amount	O N2 1/10

Total Invoice Amount
[040 A]

Segment: CAD Carrier Detail

Level: 3

Sequence: 30

Usage: O

Max Use: 1

Loop:

Purpose: To specify transportation details for the transaction

Semantic Notes: 01. At least one of CAD05 or CAD04 must be present.
02. If CAD07 is present, then CAD08 is required.

Data Element Summary

Ref. Des.	Data Element	Name	Attributes
CAD01	91	Transportation Method/Type Code Code specifying the method or type of transportation for the shipment.	O ID 1/2
CAD02	206	Equipment Initial	O AN 1/4
CAD03	207	Equipment Number	O AN 1/10
CAD04	140	Standard Carrier Alpha Code	C ID 2/4

Transportation Method/Type
Code
[041 A]
Use any code.

Routing
[042 A]

NOTE: A. Insert number 1 to satisfy
syntax requirement.

B. Codes in DE 91 may have to be
converted to DoD codes (see table
at end of this implementation con-
vention).

CAD05 387 Routing C AN 1/35

Free-form description of the routing or requested
routing for shipment, or the originating carrier's
identity.

CAD06 368 Shipment/Order Status Code O ID 2/2

CAD07 128 Reference Number Qualifier O ID 2/2

CAD08 127 Reference Number O AN 1/30

Segment: ITA Allowance, Charge or Service
Table: 3
Sequence: 40
Usage: O
Max Use: 1
Loop: ITA/10
Purpose: To specify allowances, charges or services
Comment: A. If ITA01 = A-Allowance or C-Charge, then at least one of ITA06, ITA07, or ITA08 must be present.
B. If ITA07 is present with either ITA06 or ITA08, then ITA07 takes precedence.
C. ITA12 is the quantity of free goods.
Syntax Notes: 02 If ITA02 is present, then at least one of ITA03, or ITA13 is required.
08 If ITA08 is present, then ITA09 is required.
10 If ITA10 is present, then ITA11 is required.

Data Element Summary

Ref. Des.	Data Element	Name	Attributes
ITA01	248	Allowance or Charge Indicator Code which indicates an allowance or charge for the service specified.	M ID 1/1
		<u>Code</u> <u>Definition</u>	
		C Charge	
ITA02	559	Association Qualifier Code	O ID 2/2
ITA03	560	Special Services Code	C ID 2/10
ITA04	331	Allowance or Charge Method of Handling Code Code indicating method of handling for an allowance or charge.	M ID 2/2
		<u>Code</u> <u>Definition</u>	
		06 Charge to be Paid by Customer	

Allowance or Charge Indicator
[043 A *]

Allowance or Charge Method
of Handling Code
[044 A *]

Allowance or Charge Total
Amount
[045 A]

ITA05	341	Allowance or Charge Number	O	AN	1/16
ITA06	359	Allowance or Charge Rate	O	R	1/9
ITA07	360	Allowance or Charge Total Amount Total dollar amount for the allowance or charge.	O	N2	1/9
ITA08	378	Allowance/ Charge Percent Qualifier	O	ID	1/1
ITA09	332	Allowance or Charge Percent	C	R	1/6
ITA10	339	Allowance or Charge Quantity	O	R	1/10
ITA11	355	Unit of Measurement Code	C	ID	2/2
ITA12	380	Quantity	O	R	1/10
ITA13	352	Description	C	AN	1/80
ITA14	150	Special Charge Code	O	ID	3/3

Segment: CTT Transaction Totals

Table: 3

Sequence: 70

Usage: M

Max Use: 1

Loop:

Purpose: To transmit a hash total for a specific element in the transaction set

Comment: A. This segment is intended to provide hash totals to validate transaction completeness and correctness.

Syntax Notes: 01 If CTT03 is present, then CTT04 is required.

02 If CTT05 is present, then CTT06 is required.

Data Element Summary

Ref. Des.	Data Element	Name	Attributes
CTT01	354	Number of Line Items Total number of line items in the transaction set.	M NO 1/6
CTT02	347	Hash Total	O R 1/10
CTT03	81	Weight	O R 1/8
CTT04	355	Unit of Measurement Code	C ID 2/2
CTT05	183	Volume	O R 1/8
CTT06	355	Unit of Measurement Code	C ID 2/2
CTT07	352	Description	O AN 1/80

Number of Line Items
[046 A]

CTT01 will carry the accumulation
of the number of IT1 segments con-
tained in the transaction set.

Segment: SE Transaction Set Trailer
Table: 3
Sequence: 80
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: A. SE is the last segment of each transaction set.

Data Element Summary

Ref. Des.	Data Element	Name	Attributes
SE01	96	Number of Included Segments Total number of segments included in a transaction set including ST and SE segments.	M NO 1/6
SE02	329	Transaction Set Control Number Identifying control number assigned by the originator for a transaction set.	M AN 4/9

Number of Included Segments
[047 A]

Transaction Set Control
Number
[048 A]

Control No, (same number will be
found in ST02 in Header.)

10.C Examples - X12 Transaction Set 810 Invoice

This appendix contains an example of Transaction Set 810 as it is used to transmit invoice information to a DoD payment center, the Defense Finance and Accounting Service - Columbus (DFAS).

{BLANK PAGE}

Example - Invoice information from Billing Party to DFAS using ANSI X12 810

ST*810*00001 n/l	Transaction set header and control number
BIG*920527*123456**DAAJ9992C2468*0005*03*DI n/l	Beginning segment with invoice date and number; contract, call, and modification numbers
REF*SI*ABC123 n/l	Shipment number
REF*ZZ*Z n/l	Final shipment indicator
REF*BL*135792468 n/l	GBL number
REF*VR*ABC01 n/l	Vendor ID number
N1*SE**33*12345 n/l	CAGE code of selling (invoicing) party
N1*PR**10*24680 n/l	DODAAC of paying office
ITD*16**2**10**30 n/l	Fast payment indicator and terms of discount: 2% ten days, net 30 days
DTM*011*920527 n/l	Shipment date
IT1*0001*10*EA*20.00 n/l	Line item 0001: 10 items @ \$20 each
PID*F****WIDGET n/l	Text description of the line item: a widget
TDS*200.00 n/l	Total invoice amount
CAD*A****1 n/l	Transportation method code
ITA*C***06***25.00 n/l	Transportation charge
CTT*1 n/l	Number of IT1 segments
SE*17*00001 n/l	Transaction set trailer with number of segments (17) and control number

NOTE: ALL NUMBERS ARE NOTIONAL AND USED FOR ILLUSTRATION PURPOSES ONLY.

{BLANK PAGE}

10.F Additional DoD Code Lists

This appendix contains no additional DoD code lists .

(Blank Page)

REPORT DOCUMENTATION PAGE

Form Approved
OPM No. 0704-0188

Public reporting burden for this collection of information is estimated to average 1 hour per response, including the time for reviewing instructions, searching existing data sources gathering, and maintaining the data needed, and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Washington Headquarters Services, Directorate for Information Operations and Reports, 1215 Jefferson Davis Highway, Suite 1204, Arlington, VA 22202-4302, and to the Office of Information and Regulatory Affairs, Office of Management and Budget, Washington, DC 20503.

1. AGENCY USE ONLY (Leave Blank)		2. REPORT DATE September 92		3. REPORT TYPE AND DATES COVERED Final	
4. TITLE AND SUBTITLE DoD Electronic Data Interchange (EDI) Convention: ASC X12 Transaction Set 810 Invoice (Commercial) (Version 003010)				5. FUNDING NUMBERS C MDA903-90-C-0006 PE 0902198D	
6. AUTHOR(S) Stephen Luster William T. James					
7. PERFORMING ORGANIZATION NAME(S) AND ADDRESS(ES) Logistics Management Institute 6400 Goldsboro Road Bethesda, MD 20817-5886				8. PERFORMING ORGANIZATION REPORT NUMBER LMI-DL203-LN2	
9. SPONSORING/MONITORING AGENCY NAME(S) AND ADDRESS(ES) DoD Executive Agent for EC/EDI/PLUS Defense Logistics Agency DLA-ZIE, Cameron Station Alexandria, VA 22304				10. SPONSORING/MONITORING AGENCY REPORT NUMBER	
11. SUPPLEMENTARY NOTES Prepared in cooperation with Data Interchange Standards Association, the Secretariat and administrative arm of the Accredited Standards Committee X12.					
12a. DISTRIBUTION/AVAILABILITY STATEMENT A: Approved for public release; distribution unlimited				12b. DISTRIBUTION CODE	
13. ABSTRACT (Maximum 200 words) 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 commercial invoice using the ASC X12 Transaction Set 810 Invoice (003010).					
14. SUBJECT TERMS Electronic Data Interchange; EDI; DoD EDI Convention: Electronic Commerce; ANSI X12; X12; electronic standards; electronic business standards; computer-to-computer exchange of data; electronic documents; electronic records; paperless environment; conventions				15. NUMBER OF PAGES 87	
				16. PRICE CODE	
17. SECURITY CLASSIFICATION OF REPORT Unclassified	18. SECURITY CLASSIFICATION OF THIS PAGE Unclassified	19. SECURITY CLASSIFICATION OF ABSTRACT Unclassified	20. LIMITATION OF ABSTRACT UL		