

# Electronic Data Interchange



**ANSI ASC X12 Version**  
**3050**  
**EBS 810**  
**Commercial Invoice**

Updated June 2011 I&T eSolutions HTEA

## DFAS-CO EDI OVERVIEW

This guide is intended to provide you with finger-tip information about our EDI program. DFAS-CO uses the American National Standards Institute (ANSI) Accredited Standards Committee (ASC) X12 Transactions Sets for EDI transmission.

The Trading Partner Agreement (TPA) is a formal agreement required to exchange data electronically. It outlines the duties and responsibilities of both trading partners. A copy of the DFAS-CO TPA is printed in Section 3 of the EDI Guide.

For your convenience, a DFAS-CO EDI Registration page is included on page 3 of this guide. Contractors need only register for DFAS-CO EDI EBS system and transaction types **ONE TIME**.

## EDI SEGMENT USAGES

“DFAS-CO Required Designator” (Req Des) denotes the requirement designator for the specific data field (element):

“M” = Mandatory per ASC X12

“R” = Required by DFAS-CO in any invoice

“O” = Optional at the discretion of the invoice originator

“C” = Conditional upon the type of invoice, contract terms, use of other related data element.

WHEN the...	THEN the...
segment “Usage” is “M”	segment is Mandatory per ASC X12
segment “Usage” is “O”	segment is Optional per ASC X12
segment is optional	“Req Des” applies only if you use that segment
segment is optional per ASC X12, but required or conditional per DFAS-CO	notations are next to the ASC X12 requirement designator
segment is DFAS-CO Required or Conditional	“DFAS-CO Req Des” reference determines which data elements to use

## DFAS-CO FORMAT MIN/MAX

“DFAS-CO Format Min/Max” indicates the size of the field as used by DFAS-CO. Restrictions on this indicator beyond the ASC X12 specifications are the result of limitations or specific data format requirements within the DoD mainframe applications.

*Defense Finance and Accounting Service - Columbus Center Electronic Data Interchange November 4, 1999*

## DFAS-CO EDI REGISTRATION

## 3

## ACRONYM GLOSSARY

### A

ABA	American Banking Association
ACH	Automated Clearing House
ACO	Administrative Contracting Officer
ACRN	Accounting Classification Reference Number
ANSI	American National Standards Institute
ASC	Accredited Standards Committee

### C

CAGE Code	Contractor and Government Entity Code
CAO	Contract Administration Office
CCR	Central Contractor Registration
CCD+	Cash Concentration/Disbursement Plus
CLIN	Contract Line Item Number
COINS	Contractor Invoice System
CSO	Customer Service Office
CTX	Corporate Trade Exchange

### D

DCMC	Defense Contract Management Command
DCAA	Defense Contract Audit Agency
DCMDE	Defense Contract Management District East
DFAS-CO	Defense Finance and Accounting Service - Columbus Center
DISA	Defense Information Systems Agency
DLA	Defense Logistics Agency
DLSC	Defense Logistic Services Center
DoD	Department of Defense
DoDAAC	DoD Automated Addressing Code
DSSN	Disbursing Station Serial Number

### E

EBS	Enterprise Business System
ECPN	Electronic Commerce Processing Node (formerly Network Entry Point (NEP))
EDI	Electronic Data Interchange
EDIA	Electronic Data Interchange Association
EFT	Electronic Funds Transfer
ELIN	Exhibit Line Item Number

### F

FACNET	Federal Acquisition Computer Network
FAR	Federal Acquisition Regulations

### I

IC	Implementation Conventions
ISO	International Standards Organization

### L

LMI	Logistics Management Institute
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## ACRONYM GLOSSARY, cont'd

### **M**

MOCAS      Mechanization of Contract Administration Services

### **N**

NSN          National Stock Number

### **P**

PIIN         Procurement Instrument Identification Number (Contract Number)

### **R**

REQ DES     Requirement Designator

### **S**

SBA          Small Business Administration

SPIIN        Supplemental Procurement Instrument Identification Number (Call Number)

SLIN         Two character alphabetical code attached to a CLIN to provide a subdivision of the line item

### **T**

TCN          Transportation Control Number

TRN          Transit Routing Number

### **V**

VAN          Value Added Network

# 810 COMMERCIAL INVOICE

## ISA - INTERCHANGE CONTROL HEADER

Usage: M

Max Use: 1

Ref. Des./ Data Elem. #	Name	DFAS-CO Format Min/Max	DFAS-CO Req Des	Entry/Implementation Note
ISA01 I01	Authorization Information	ID 2/2	M	<b>00</b> -No Authorization Information Present
ISA02 I02	Authorization Information	AN 10/10	M	Blanks
ISA03 I03	Security Information Qualifier	ID 2/2	M	<b>00</b> - No Security Information Present
ISA04 I04	Security Information	AN 10/10	M	Blanks
ISA05 I05	Interchange ID Qualifier	ID 2/2	M	Assigned by VAN - DFAS Prefers 01
ISA06 I06	Interchange Sender's ID	ID 15/15	M	EDI Identifier - Assigned by VAN - DFAS-CO Prefers DUNS #
ISA07 I05	Interchange ID Qualifier	ID 2/2	M	<b>ZZ</b> -Mutually Defined
ISA08 I07	Interchange Receiver's ID	ID 15/15	M	<b>DMCCOLUMBUS</b> or <b>DMCOGDEN</b> (See Note)
ISA09 I08	Interchange Date	DT 6/6	M	Assigned by the Translation Software
ISA10 I09	Interchange Time	TM 4/4	M	Assigned by the Translation Software
ISA11 I10	Interchange Control Standard Identifier	ID 1/1	M	<b>U</b> - US Community of ASC X12
ISA12 I11	Interchange Control Version	ID 5/5	M	Assigned by Translation Software
ISA13 I12	Interchange Control Number	NO 9/9	M	Assigned by Translation Software
ISA14 I13	Acknowledgment Requested	ID 1/1	M	<b>1</b> - Acknowledgment Requested
ISA15 I14	Test Indicator	ID 1/1	M	<b>T</b> -Test Data <b>P</b> -Production Data
ISA16 I15	Sub-element Separator	AN 1/1	M	<b>~</b> - DFAS Prefers a Tilde

**NOTE:** Contact your VAN to find out which ID to use here. This entry depends on the selected VAN and its primary ECPN (FACNET) connection.

# 810 COMMERCIAL INVOICE

## GS - FUNCTIONAL GROUP HEADER

Usage: M

Max Use: 1

Ref. Des./ Data Elem. #	Name	DFAS-CO Format Min/Max	DFAS-CO Req Des	Entry/Implementation Note
GS01 479	Functional ID Code	ID 2/2	M	<b>IN</b> -Invoice Information
GS02 142	Application Sender's Code	AN 2/12	M	Determined by Contractor and Van (DFAS-CO Prefers CAGE Code)
GS03 124	Application Receiver's Code	AN 6/6	M	<b>SC0700</b> for EBS
GS04 29	Group Date	DT 6/6	M	Assigned by Translation Software
GS05 30	Group Time	TM 4/4	M	Assigned by Translation Software
GS06 28	Group Control Number	NO 1/9	M	Assigned by Translation Software
GS07 455	Responsible Agency Code	ID 1/2	M	<b>X</b> -ASC X12
GS08 480	Version/Release/Industry ID	ID 6/6	M	<b>003050</b> - Version 3050

## ST - TRANSACTION SET IDENTIFIER CODE

Table: 1

Usage: M

Max Use: 1

Ref. Des./ Data Elem. #	Name	DFASCO Format Min/Max	DFAS- CO Req Des	Entry/Implementation Note
ST01 143	Transaction Set Identifier Code	ID 3/3	M	<b>810</b> - Commercial Invoice
ST02 329	Transaction Set Control Number	AN 4/9	M	Identifying Control Number Assigned by Originator

# 810 - COMMERCIAL INVOICE

## BIG - BEGINNING SEGMENT FOR INVOICE

Table: 1  
Usage: M  
Max Use: 1

Ref. Des./ Data Elem.#	Name	DFAS-CO Format Min/Max	DFAS-CO Req Des	Entry/Implementation Note
BIG01 245	Invoice Date	DT 6/6	M	YYMMDD format
BIG02 76	Invoice Number	AN 1/8	M	Contractor Assigned Invoice Number (DFAS-CO payment systems limit this field to 8 characters in length)
BIG03 323	Purchase Order Date	DT 6/6	O	Not Used
BIG04 324	Contract Number	AN 13/13	R	Contract # ( <b>NO HYPHENS</b> ) If C, F, M, P, Q, W, or V is in the 9th Position No Call # is Required in BIG05
BIG05 328	Call/Order Number	AN 4/4	C	Call # -See BIG04 Explanation * See Note 1
BIG06 327	Contract Modification Number	AN 1/8	O	Leave Blank
BIG07 640	Transaction Type Code	AN 2/2	O	<b>DI</b> -Debit Invoice (Standard Invoice)
BIG08 640	Transaction Set Purpose Code	AN 2/2	O	<b>00</b> -Original Invoice (See Note 2)

**NOTE 1:** This element must be used when the contract has a Call number/Order number/.

**NOTE 2:** At this time, only use DI in BIG07 and 00 in BIG08. If this field is left blank, DFAS-CO will process the transaction as a Debit Invoice, Original.



# 810 COMMERCIAL INVOICE

## REF - REFERENCE NUMBERS

Table: 1/050  
Usage: O  
Max Use: 12

Ref. Des./ Data Elem. #	Name	DFAS-CO Format Min/Max	DFAS-CO Req Des	Entry/Implementation Note
REF01 128	Reference Number Qualifier	ID 2/2	O	<b>SI</b> - Shipment Information
REF02 127	Reference Number	AN 1/8	O	Vendor's Shipment Number
REF01 128	Reference Number Qualifier	ID 2/2	O	<b>FS</b> - Final Shipment (Leave Blank if Not the Final Shipment)
REF02 127	Reference Number	AN 1/1	O	<b>Z</b> - Final Shipment Indicator (Leave Blank if not the Final Shipment)
REF01 128	Bill of Lading Specification	ID 2/2	O	<b>BL</b> - Gov't Bill of Lading
REF02 127	Bill of Lading Number	AN 1/8	C	Bill of Lading Number

# 810 COMMERCIAL INVOICE

## N1 - NAME

Table: 1  
Usage: O (DFAS-CO Required)  
Max Use: 200

Ref. Des./ Data Elem. #	Name	DFAS-CO Format Min/Max	DFAS-CO Req Des	Entry/Implementation Note
N101 98	Entity Identifier Code	ID 2/2	R	<b>PR</b> -Paying Office
N102 93	Name	AN 1/35	O	Not Used
N103 66	Identification Code Qualifier	ID 2/2	R	<b>10</b> -DoDAAC Code
N104 67	Identification Code	ID 6/6	R	Enter Payment Office DoDAAC (See Table Below) Specified in the Contract/Order.
N101 98	Entity Identifier Code	ID 2/2	R	<b>C4</b> - Contract Administration Office (CAO)
N102 93	Name	AN 1/35	C	Not Used
N103 66	Identification Code Qualifier	ID 2/2	R	<b>10</b> -DoDAAC Code
N104 67	Identification Code	ID 6/6	R	Enter the DoDAAC for the CAO as specified in Contract (or Order) listed in BIG 04 & BIG 05
N101 98	Entity Identifier Code	ID 2/2	R	<b>PE</b> - Payee
N102 93	Name	AN 1/35	O	Company Name
N103 66	ID Code Qualifier for N104	ID 2/2	R	<b>33</b> - CAGE Code
N104 67	Identification Code	ID 5/5	R	Enter the CAGE Code as specified in the Contract(or Order) listed in the BIG 04 & BIG 05

**NOTE:** Must use three (3) repetitions of the N1 segment as follows:

- } Identify the DFAS-CO payment office
- } Identify the contract Administration Office (CAO)
- } Identify the Contractor's Cage Code

# 810 COMMERCIAL INVOICE

## PER - ADMINISTRATIVE COMMUNICATION CONTACT

Table/Position: 1/120  
Usage: O (DFAS-CO Required)  
Max Use: 3 (per N1 loop)

**Syntax Note 1:** The PER segment containing code IC must immediately follow the N1 segment that contains the code PE and the Contractor's CAGE Code.

**Syntax Note 2:** Each time the segment is used, the PER01 is required per ASC X12.

**Syntax Note 3:** If either PER03 or PER04 is used, then the other is required per ASC X12.

**Syntax Note 4:** If either PER05 or PER06 is used, then the other is required per ASC X12.

Ref. Des. Data Elem. #	Name	CO	Req	DFAS- Format Min/Max	DFAS-CO Des	Entry/Implementation Note
PER01 366	Contact Functional Code			ID 2/2	R	<b>IC</b> - Contractors Representative
PER02 93	Name			AN 1/20	R	Contractor's Representative's Name
PER03 365	Communication Number Qualifier			ID 2/2	R	<b>TE</b> -Telephone
PER04 364	Communication Number			AN 1/10	R	Contractors Commercial Telephone Number. (Do Not Include Hyphens or Parenthesis)
PER05 365	Communication Number Qualifier			ID 2/2	O	<b>FX</b> - Facsimile
PER06 364	Communication Number			A/N 1/10	C	Contractor's Representative's Fax Number including Area Code (Do not include Hyphens or parenthesis)

**NOTE:** Must use one repetition of the PER segment to identify Contractor's Representative

# 810 COMMERCIAL INVOICE

## ITD - TERMS OF SALE (See Note 1)

Table: 1  
Usage: 0 (DFAS-CO Conditional)  
Max Use: 5

Ref. Des./ Data Elem. #	Name	DFAS-CO Format Min/Max	DFAS-CO Req Des	Entry/Implementation Note
ITD01		ID		
336	Terms Type Code	2/2	O	Not Used
ITD02		ID		
333	Terms Basis Code	1/2	O	Not Used
ITD03		R		Discount Offered, Expressed as a
338	Terms Discount Percentage	1/3	R	Percentage (See Note 2)
ITD04		DT		
370	Terms Discount Due Date	6/6	O	Not Used
ITD05		N0		
351	Terms Discount Due Date	1/2	R	Number of Discount Days
ITD06		DT		
446	Terms Net Due Date	6/6	O	Not Used
ITD07		N0		
386	Terms Net Days	1/3	O	Number of Net Days for Payment
ITD08		N2		
362	Terms Discount Amount	1/10	O	Not Used
ITD09		DT		
388	Terms Deferred Due Date	6/6	O	Not Used

**NOTE 1:** Use this segment only if a better discount term is being offered than contained in the contract

**NOTE 2:** EBS cannot accept hundredths of a per cent (.0001). Use **3** or **3.** for 3%; use **1.5** for 1 1/2%; use **.5** for 1/2%; etc.....

## DTM - DATE TIME REFERENCE

Table: 1  
Usage: 0 (DFAS-CO Required. See Note)  
Max Use: 10

Ref. Des./ Data Elem. #	Name	DFAS-CO Format Min/Max	DFAS- CO Req Des	Entry/Implementation Note
DTM01		ID		
374	Date/Time Qualifier	3/3	R	<b>011</b> -Indicates Item was Shipped
DTM02		DT		
373	Date/Time Reference	6/6	R	Shipment Date in YYMMDD Format

**NOTE:** Use this segment when you are invoicing for a single CLIN, or when invoicing for multiple CLINs shipped on the same date. Use the DTM segment in table two if you have shipped multiple CLINs on different dates (see DTM segment page 14).

# 810 COMMERCIAL INVOICE

## IT1 - BASELINE ITEM DATA (INVOICE)

Table: 2  
Usage: O (DFAS-CO Required)  
Max Use: 1  
Loop Repeat: 200000

Ref. Des./ Data Elem. #	Name	DFAS-CO Format Min/Max	DFAS-CO Req Des	Entry/Implementation Note
IT101 350	Assigned Identification	AN 1/6	R	CLIN/SubCLIN (See Notes 1 & 2)
IT102 358	Quantity Invoiced	R 1/9	R	Quantity Invoiced
IT103 355	Unit of Measure Code	ID 2/2	R	Use the Unit of Measure Specified in the Contract
IT104 212	Unit Price	R 1/14	R	Unit Price Specified in Contract (See Note 3 )
IT105 639	Basis of Unit Price Code	ID 2/2	O	Not Used
IT106 235	Product/Service ID Qualifier	ID 2/2	O	<b>FS</b> -NSN <b>MG</b> -Manufacturer's Part number <b>VN</b> -Vendor Number
IT107 234	Product/Service ID	AN 13/13	C	NSN ( <b>NO HYPHENS</b> ) (See Note 4)

**NOTE 1:** EBS is now capable of accepting multiple CLINS on a single invoice. You may use more than one IT1 segment (one for each CLIN) for each unique PIIN/SPIIN combination (BIG04 and BIG05).

**NOTE 2:** Acceptable CLIN formats

- 4 numeric characters (CLIN) followed by 2 zeros (000200)
- 4 numeric characters (CLIN) followed by two blank spaces (0003)
- 4 numeric characters (CLIN) followed by 2 alpha characters (SubCLIN) (0004AA)

**NOTE 3:** If no decimal point is used, X12 standards places it at the end of the data stream.

**NOTE 4:** All invoices require one of the following:

- \* Use the NSN if product has one
- \* If no NSN, use Manufacturer's part number, or vendor #, and
- \* As a last resort, use the PID segment containing text description

# 810 COMMERCIAL INVOICE

## PID - PRODUCT/ITEM DESCRIPTION

Table: 2  
Usage: O (DFAS-CO Conditional. See note 4 in IT1 segment)  
Max Use: 1  
Loop Repeat: 1000

Ref. Des./ Data Elem. #	Name	DFAS-CO Format Min/Max	DFAS-CO Req Des	Entry/Implementation Note
PID01		ID		
349	Item Description Type	1/1	C	F -Free Form
PID02		ID		
750	Product/Process Characteristic Code	2/3	O	Not Used
PID03		ID		
559	Association Qualifier Code	2/2	C	Not Used
PID04		ID		
751	Product Description Code	1/12	C	Not Used
PID05		AN		
352	Description	1/19	C	Enter Brief Item Description

**NOTE:** Use one PID segment for each IT1 segment.

## DTM - DATE TIME REFERENCE

Table: 2  
Usage: O (DFAS-CO Required. See Note)  
Max Use: 10

Ref. Des./ Data Elem. #	Name	DFAS-CO Format Min/Max	DFAS- CO Req Des	Entry/Implementation Note
DTM01		ID		
374	Date/Time Qualifier	3/3	R	011 -Indicates Item was Shipped
DTM02		DT		
373	Date/Time Reference	6/6	R	Shipment Date in YYMMDD Format

**NOTE:** Use this segment when you are invoicing for multiple CLINs shipped on different dates. If you have a single CLIN or multiple CLINs shipped on a single date, use the DTM Segment in table 1 (see DTM segment page 15).

# 810 COMMERCIAL INVOICE

## CAD - CARRIER DETAIL

Table: 2

Usage: O

Max Use: 1

(DFAS Required. See Note)

Ref. Des./ Data Elem. #	Name	DFAS-CO Format Min/Max	DFAS-CO Req Des	Entry/Implementation Note
CAD01 91	Transportation Method/Type Code	ID 1/2	R	<b>U -Satisfies EBS Requirement</b>
CAD02 206	Equipment Initial	AN 1/4	O	Not Used
CAD03 207	Equipment Number	AN 1/10	O	Not Used
CAD04 140	Standard Carrier Alpha Code	ID 2/4	C	Not Used
CAD05 387	Routing	AN 1/1	R	<b>1 -Satisfies Syntax Requirement</b>

**NOTE:** Use this segment when you are invoicing for a multiple CLINs shipped using different modes of shipment. If you have a single CLIN or multiple CLINs shipped using a single mode of shipment, use the CAD segment in table 3 (see CAD segment page 16).

# 810 COMMERCIAL INVOICE

## TDS - TOTAL MONETARY VALUE SUMMARY

Table: 3  
Usage: M  
Max Use: 1

Ref. Des./ Data Elem. #	Name	DFAS-CO Format Min/Max	DFAS-CO Req Des	Entry/Implementation Note
TDS01 361	Total Invoice Amount	N2 1/10	M	Total Amount of Invoice Before Applicable Discount (See Note)

**NOTE:** Must contain two (2) decimal places with an **IMPLIED** decimal point, for example: express \$752.68 as 75268 or \$7,348 as 734800.

## CAD - CARRIER DETAIL

Table: 3  
Usage: O (DFAS-CO Required)  
Max Use: 1

Ref. Des./ Data Elem. #	Name	DFAS- CO Format Min/Max	DFAS- CO Req Des	Entry/Implementation Note
CAD01 91	Transportation Method/Type Code	ID 1/2	R	<b>U</b> -Satisfies EBS Requirement
CAD02 206	Equipment Initial	AN 1/4	O	Not Used
CAD03 207	Equipment Number	AN 1/10	O	Not Used
CAD04 140	Standard Carrier Alpha Code	ID 2/4	C	Not Used
CAD05 387	Routing	AN 1/1	R	<b>1</b> -Satisfies Syntax Requirement

**NOTE:** Use this segment when you are invoicing for a single CLIN or if you shipped multiple CLINs with the same mode of shipment. Use the CAD segment in table 2 if you have shipped multiple CLINs using different modes of shipment (see CAD segment page 15).



# 810 COMMERCIAL INVOICE

## SAC - ALLOWANCE, CHARGE, SERVICE, or PROMOTION

Table: 3/040  
 Usage: O (DFAS-CO Conditional)  
 Max Use: 1  
 Loop Repeat: 25

Ref. Des./ Data Elem. #	Name	DFAS-CO Format Min/Max	DFAS-CO Req Des	Entry/Implementation Note
SAC01 248	Allowance or Charge Indicator	ID 1/1	R	<b>C</b> - Charge
SAC02 1300	Service, Promotion, Allowance or Charge Code	ID 4/4	R	While any code except those related to tax may be used, DFAS prefers the following <b>I260</b> - Transportation Charge
SAC03 559	Agency Qualifier Code	ID 2/10	O	Not Used
SAC04 1301	Agency Service, Promotion, Allowance or Charge Code	AN 1/10	O	Not Used
SAC05 610	Amount	N2 1/16	R	Amount of Charges (see Note)

**NOTE:** Must contain two (2) decimal places with an **IMPLIED** decimal point, for example: express \$10.00 as 1000  
 Use only for additional charges not included in unit price and only if reimbursement is authorized within the contract listed in BIG 04 and BIG 05. If no charges, do not use this segment.

## CTT - TRANSACTION TOTALS

Table: 3  
 Usage: M  
 Max Use: 1

Ref. Des./ Data Elem. #	Name	DFAS-CO Format Min/Max	DFAS-CO Req Des	Entry/Implementation Note
CTT01 354	Number of Line Items	NO 1/6	M	Total Number of Line Items in Transaction Set

## SE - TRANSACTION SET TRAILER

Table: 3  
 Usage: M  
 Max Use: 1

Ref. Des./ Data Elem. #	Name	DFAS-CO Format Min/Max	DFAS-CO Req Des	Entry/Implementation Note
SE01 96	Number of Included Segments	NO 1/6	M	Assigned by Translation Software
SE02 329	Transaction Set Control Number	AN 4/9	M	Control Number (The Same as in ST02 in Header)

## 810 COMMERCIAL INVOICE

### GE - FUNCTIONAL GROUP TRAILER

Table: 3  
Usage: M  
Max Use: 1

Ref. Des./ Data Elem. #	Name	DFAS-CO Format Min/Max	DFAS-CO Req Des	Entry/Implementation Note
GE01 97	Number of Included Sets	NO 1/6	M	Assigned by Translation Software
GE02 28	Group Control Number	NO 1/9	M	Assigned by Translation Software (Same as in GS06 in Header)

### IEA - INTERCHANGE CONTROL TRAILER

Table: 3  
Usage: M  
Max Use: 1

Ref. Des./ Data Elem. #	Name	DFAS-CO Format Min/Max	DFAS-CO Req Des	Entry/Implementation Note
IEA01 I16	Number of Included Functional Groups	NO 1/5	M	Assigned by Translation Software
IEA02 I12	Interchange Control Number	NO 9/9	M	Assigned by Translation Software (Same as in ISA13 in Header)