Department
of
Defense

DoD Transportation Electronic Business (DTEB) Convention

ASC X12 Transaction Set 864 TTC Traffic Solicitation Cover/Award Letters (Version 004010)

FINAL DRAFT

December 2007

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Section 1.0

INTRODUCTION

This implementation convention (IC) describes the standard or convention the Military Surface Deployment and Distribution Command (MSDDC) and the Department of Defense (DoD) will use to process Solicitation Cover Letters and Solicitation Award Letters. This convention supports MSDDC's Tailored Transportation Contract Traffic (TTC) program.

For further information about the Defense Transportation community's Electronic Business (DTEB) program, contact the following:

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

To obtain DoD conventions or *ASC* X12 guidance or to recommend DoD conventions or *ASC* X12 maintenance, contact the following:

Defense Logistics Management Standards Office
Attn: DLMSO
8725 John J. Kingman Road
Ft. Belvoir VA 22060-6217

For the most recent publication, go to the World-Wide Web at
https://dteb.lmi.org/dod/dteb.nsf/(DocLevel2)?OpenView&cat1=IC&cat2=4010

[Instructions: At the web location, sign on as 'Guest'. Select the desired Implementation Convention document. That document is available in PDF format and may be downloaded or printed.]

Who Needs to Use This Document

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

Why Use a Convention

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

Contents

Additional sections are included in this document.

- Section 2.0, Control Segments, identifies the specific data requirements for formatting the EDI interchange control segments that envelop all EDI transactions.
- Section 3.0, Standard Implementation Convention, lists the layout of the target transaction set by segment and data element. Identified along side each transaction set data element is the IC Element Matrix index number from Section 4.0.
- Section 4.0, IC Element Matrix, identifies the application data elements trading partners need to exchange. This section can be used to map an existing application database into the transaction set.
- Section 5.0 , when present, contains an example of the EDI transactions.
- Section 6.0, Application Code Lists, when present, identifies the DoD codes that trading partners need to exchange. This section augments the matrix presented in Section 4.0.
- Other sections contain examples of hard copy documents, examples of EDI transaction sets, segment looping logic tables, and other items that serve as references for software developers.

Section 2.0

CONTROL SEGMENTS

Overview

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

Purpose

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

Contents

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

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

Special Instructions

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

DATA ELEMENT SEPARATOR

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

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

SEGMENT TERMINATOR

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

COMPONENT ELEMENT SEPARATOR

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

GS01 CODE VALUE

Use the appropriate code value from data element 479 in GS01 of the control envelope for indicating the transaction set being transmitted. For example, to exchange an implementation convention for Transaction Set 858, the correct code value for GS01 is 'SI' denoting Shipment Information (858).

X12 PUBLICATION

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

Interchange Control Envelope Control Segments

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

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Segment: ISA Interchange Control Header

Usage: Mandatory

Max Use: 1

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

DATA ELEMENT SUMMARY

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

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

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

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

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

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

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

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

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

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

Date in MMDDYY format assigned by translation software

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

Time in HHMM format assigned by translation software

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

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

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

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

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

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

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

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

Code	Definition
0	No Acknowledgment Requested
1	Interchange Acknowledgment Requested

Send code agreed upon by trading partners.

M ISA15 I14 Usage Indicator M ID 1/1

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

Code	Definition
I	Information
P	Production Data
T	Test Data

Use code value as agreed upon by trading partners.

M ISA16 I15 Component Element Separator AN 1/1

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

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

Segment: GS Functional Group Header

Usage: Mandatory

Max Use: 1

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

DATA ELEMENT SUMMARY

	Ref Des	Data Element	Name	Attributes
M	**GS01**	**479**	**Functional Identifier Code** Code identifying a group of application related transaction sets Use the appropriate code value from data element 479 in GS01 of the control envelope for indicating the transaction set being transmitted. For example, to exchange an implementation convention for Transaction Set 858, the correct code value for GS01 is 'SI' denoting Shipment Information (858).	**M ID 2/2**
M	**GS02**	**142**	**Application Sender's Code** Code identifying party sending transmission; codes agreed to by trading partners Typically, a sender will use different codes here to uniquely identify each implementation convention (IC) for a particular transaction set. DoD activities use DoDAAC or other code coordinated with trading partners. Non-DoD activities use identification code assigned by DoD, which for increased security should differ from that used in ISA06.	**M AN 2/15**
M	**GS03**	**124**	**Application Receiver's Code** Code to identify the type of information in the Security Information DoD activities use DoDAAC or other code coordinated with trading partners. Non-DoD activities use identification code assigned by DoD, which for increased security should differ from that used in ISA08	**M AN 2/15**

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

Date assigned by translation software

M GS05 337 Time M TM 4/8
Time expressed in 24-hour clock time as follows: HHMM or HHMMSS, or HHMMSSD, or HHMMSSDD, where H – hours (00-23), M = minutes (00-59), S = integer seconds (00-59),and D = decimal seconds; decimal seconds are expressed as follows: D = tenths (0-9) and DD = hundredths (00-99)

Time expressed in HHMM format assigned by translation software

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

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

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

Code	Definition
X	Accredited Standards Committee X12

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

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

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

Segment: GE Functional Group Trailer

Usage: Mandatory

Max Use: 1

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

DATA ELEMENT SUMMARY

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

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Segment: IEA Interchange Control Trailer

Usage: Mandatory

Max Use: 1

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

DATA ELEMENT SUMMARY

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

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Section 3.0

STANDARD IMPLEMENTATION CONVENTION

This section presents the DoD's convention for interpreting Tailored Transportation Contract Traffic Tenders using the *ASC* X12.34 Transaction Set 864 Text Message (Version 004010).

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

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

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

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

X - Segment or data element is not used.

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

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864 Text Message

Functional Group ID=TX

Introduction:

This Draft Standard for Trial Use contains the format and establishes the data content of the Text Message Transaction Set (864) for use within the context of an Electronic Data Interchange (EDI) environment. The transaction set can be used to provide users with a capability to electronically move messages, contracts, explanations, and other one-time communications. It is the intent of this transaction set to provide electronic communication (messages) for people, not for computer processing. The use of the transaction set to transmit quasi or unique transaction set standards is discouraged. The use of the Text Message transaction set demands of the sender certain detailed information about the recipient. The transaction set's purpose is to provide communication to the recipient in some human-readable form. The recipient's network will dictate what capabilities are available for delivery of the information. It is the responsibility of the sender to obtain this information and include it in the transmission.

Heading:

	Pos. No.	Seg. ID	Name	Req. Des.	Max.Use	Loop Repeat	Notes and Comments
M	010	ST	Transaction Set Header	M	1		
M	020	BMG	Beginning Segment For Text Message	M	1		
	030	DTM	Date/Time Reference	O	10		
			LOOP ID - N1			200	
Not Used	040	N1	Name	O	1		
Not Used	050	N2	Additional Name Information	O	2		
Not Used	060	N3	Address Information	O	2		
Not Used	070	N4	Geographic Location	O	1		
Not Used	080	REF	Reference Identification	O	12		
Not Used	090	PER	Administrative Communications Contact	O	3		

Detail:

	Pos. No.	Seg. ID	Name	Req. Des.	Max.Use	Loop Repeat	Notes and Comments
			LOOP ID - MIT			>1	
M	010	MIT	Message Identification	M	1		
			LOOP ID - N1			200	
Not Used	020	N1	Name	O	1		
Not Used	030	N2	Additional Name Information	O	2		
Not Used	040	N3	Address Information	O	2		
Not Used	050	N4	Geographic Location	O	1		
Not Used	060	REF	Reference Identification	O	12		
Not Used	070	PER	Administrative Communications Contact	O	3		
M	080	MSG	Message Text	M	100000		

Summary:

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

Segment: **ST** **Transaction Set Header**
Position: 010
Loop:
Level: Heading
Usage: Mandatory
Max Use: 1
Purpose: To indicate the start of a transaction set and to assign a control number
Syntax Notes:
Semantic Notes: **1** The transaction set identifier (ST01) is used by the translation routines of the interchange partners to select the appropriate transaction set definition (e.g., 810 selects the Invoice Transaction Set).
Comments:
Notes: [001] ST SEGMENT - GT Award and Cover Letter Header (DG 10)

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
M	**ST01**	**143**	**Transaction Set Identifier Code** Code uniquely identifying a Transaction Set [002] Transaction Set Identifier Code (DG 10) 864 Text Message [002] Text Message	**M ID 3/3**
M	**ST02**	**329**	**Transaction Set Control Number** Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set [003] Transaction Set Control Number (DG 10) Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set. The application and structure of the control number must be agreed upon between trading partners. (For example, some applications use all nine digits where the first five might indicate a group control number and the last four represent the sequence of the transaction set within the functional group. Also, the entire nine digit field may simply represent the sequence of the transaction set generated by a trading partner.	**M AN 4/9**

Segment: **BMG** **Beginning Segment For Text Message**
Position: 020
Loop:
Level: Heading
Usage: Mandatory
Max Use: 1
Purpose: To indicate the beginning of a Text Message Transaction Set
Syntax Notes:
Semantic Notes:
Comments: **1** BMG02 contains the message subject.
Notes: [004] BMG SEGMENT - Solicitation Description (DG 10)

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
M	**BMG01**	**353**	**Transaction Set Purpose Code** Code identifying purpose of transaction set [005] Transaction Set Purpose Code (DG 10) 00 Original [005] Original	**M ID 2/2**
	BMG02	**352**	**Description** A free-form description to clarify the related data elements and their content [006] Solicitation Description (DG 10) This item is a six-position solicitation ID, two position amendment ID, followed by a space, plus the 60 character description of that solicitation. Example "65432100 DDRV TO CONUS".	**O AN 1/80**
>>	**BMG03**	**640**	**Transaction Type Code** Code specifying the type of transaction [007] Transaction Type Code (DG 10) Use code value 'ME' to denote Cover Letter. CHANGE NOTE: Requirement attribute corrected. 65 Award Notification [007] Award Notification ME Memorandum [007] Memorandum	**O ID 2/2**

Segment: **DTM** **Date/Time Reference**
Position: 030
Loop:
Level: Heading
Usage: Optional
Max Use: 10
Purpose: To specify pertinent dates and times
Syntax Notes: **1** At least one of DTM02 DTM03 or DTM05 is required.
2 If DTM04 is present, then DTM03 is required.
3 If either DTM05 or DTM06 is present, then the other is required.
Semantic Notes:
Comments:
Notes: [008] DTM SEGMENT - Date of Issue (DG 10)

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
M	**DTM01**	**374**	**Date/Time Qualifier** Code specifying type of date or time, or both date and time [009] Date Qualifier (DG 10) Always use 164 when BGM03 equals ME. 164 First Issue [009] First Issue 170 Supplemental Issue [009] Supplemental Issue	**M ID 3/3**
	DTM02	**373**	**Date** Date expressed as CCYYMMDD [010] Date of Issue (DG 10) CHANGE NOTE: Due to X12 Standards change, use date format CCYYMMDD.	**X DT 8/8**

Segment: **MIT** **Message Identification**
Position: 010
Loop: MIT Mandatory
Level: Detail
Usage: Mandatory
Max Use: 1
Purpose: To identify the beginning of a specific message and to allow the identification of a subject for the message
Syntax Notes:
Semantic Notes: **1** MIT01 contains the message number.
2 MIT02 contains the message subject.
Comments: **1** MIT03 default is 80 characters.
2 MIT04 default is 66 lines.
Notes: [011] MIT SEGMENT - SDDC Solicitation File ID (DG 80)

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
M	**MIT01**	**127**	**Reference Identification** Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier [012] SDDC Solicitation File ID (DG 80) This item is the SDDC Solicitation File Identifier, if available, or the Solicitation ID.	**M AN 1/30**
X	**MIT02**	**352**	**Description** A free-form description to clarify the related data elements and their content	**O AN 1/80**

Segment: **MSG** **Message Text**
Position: 080
Loop: MIT Mandatory
Level: Detail
Usage: Mandatory
Max Use: 100000
Purpose: To provide a free-form format that allows the transmission of text information
Syntax Notes: **1** If MSG03 is present, then MSG02 is required.
Semantic Notes: **1** MSG03 is the number of lines to advance before printing.
Comments: **1** MSG02 is not related to the specific characteristics of a printer, but identifies top of page, advance a line, etc.
2 If MSG02 is "AA - Advance the specified number of lines before print" then MSG03 is required.
Notes: [013] MSG SEGMENT - Cover Letter/Award Memorandum (DG 80)

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
M	**MSG01**	**933**	**Free-Form Message Text** Free-form message text [014] Cover Letter/Award Memorandum of Clear Text (DG 80) This item will contain a line of clear text no longer than 264 characters.	**M AN 1/264**
	MSG02	**934**	**Printer Carriage Control Code** A field to be used for the control of the line feed of the receiving printer [015] Cover Letter/Award Memorandum Printer Carriage Control Code (DG 80) Use this code to insert lines and page breaks before printing the clear text that appears in MSG01. AT Advanced Three Lines Before Print [015] Advanced Three Lines Before Print DS Advance two lines before print [015] Advance two lines before print NP Advance to next page before print [015] Advance to next page before print NS No advance before print [015] No advance before print SS Advance to new line before print [015] Advance to new line before print	**X ID 2/2**

Segment: **SE** **Transaction Set Trailer**
Position: 010
Loop:
Level: Summary
Usage: Mandatory
Max Use: 1
Purpose: To indicate the end of the transaction set and provide the count of the transmitted segments (including the beginning (ST) and ending (SE) segments)
Syntax Notes:
Semantic Notes:
Comments: **1** SE is the last segment of each transaction set.
Notes: [016] SE SEGMENT - GT Award and Cover Letter Trailer (DG 900)

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
M	**SE01**	**96**	**Number of Included Segments** Total number of segments included in a transaction set including ST and SE segments [017] Number of Included Segments (DG 900) Total segments in this transaction set including the ST and SE segments.	**M N0 1/10**
M	**SE02**	**329**	**Transaction Set Control Number** Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set [018] Transaction Set Control Number (DG 900) This data element ends the transaction set and should match the number that appears in the ST02 that begins the transaction set.	**M AN 4/9**

Section 4.0

IC ELEMENT MATRIX

OVERVIEW

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

PURPOSE

Using the IC element matrix will expedite mapping of an application database into a commercial EDI translation package. This IC element matrix applies to a specific application database, which is described in the Application Notes section below.

HOW TO READ THE IC ELEMENT MATRIX

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

Record Types

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

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

Two Categories of Record Information

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

- IC application information describes attributes outside the structure and syntax of the *ASC* X12 standard.

- *ASC* X12 information is attached to each IC element. That information is extracted directly from the X12 standard dictionary and enables programmers to map the IC element into the standards.

Matrix Layout

The IC element matrix lists information in sixteen columns.

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

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

Sort Order of the Matrix

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

APPLICATION NOTES

The IC element matrix in this section maps data requirements for the Military Surface Deployment and Distribution Command's (MSDDC's) Tailored Transportation Contract Traffic (TTC) Tender Program from the Department of Defense (DoD) Solicitation Cover and Solicitation Award Letters into the *ASC* X12 Transaction Set 864 Text Message. DoD derived the IC elements from the following sources:

- Examination of sample paper tenders
- Analysis of MT FORM 364-R Instruction for Use
- Comparing data dictionaries of various tender application systems
- Analysis of *ASC* X12 Transaction Set 864 Text Message (Version 004010)
- Comments submitted by transportation activities involved in the DoD electronic data interchange effort.

DoD INFORMATION				DoD	X12 SEGMENT INFORMATION							X12 ELEMENT INFORMATION			
Index	DG	Data Name	Notes and Codes	Recommended Attributes	Tabl	Pos	Req Des	Max Use	Lp Rpt	Lp Lv	Lp ID	Ref Des	DE #	(Simple) Attributes	(Composite) Attributes
1	10	**ST SEGMENT - GT Award and Cover Letter Header**		M	1	10	M	1							
2	10	Transaction Set Identifier Code 864 - Text Message		M ID 3/3	1	10		1				ST01	143	M ID 3/3	
3	10	Transaction Set Control Number Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set. The application and structure of the control number must be agreed upon between trading partners. (For example, some applications use all nine digits where the first five might indicate a group control number and the last four represent the sequence of the transaction set within the functional group. Also, the entire nine digit field may simply represent the sequence of the transaction set generated by a trading partner.		M AN 4/9	1	10		1				ST02	329	M AN 4/9	
4	10	**BMG SEGMENT - Solicitation Description**		M	1	20	M	1							
5	10	Transaction Set Purpose Code 00 - Original		M ID 2/2	1	20		1				BMG01	353	M ID 2/2	
6	10	Solicitation Description This item is a six-position solicitation ID, two position amendment ID, followed by a space, plus the 60 character description of that solicitation. Example "65432100 DDRV TO CONUS".		C AN 9/69	1	20		1				BMG02	352	O AN 1/80	
7	10	Transaction Type Code Use code value 'ME' to denote Cover Letter. CHANGE NOTE: Requirement attribute corrected. 65 - Award Notification ME - Memorandum		M ID 2/2	1	20		1				BMG03	640	O ID 2/2	
8	10	**DTM SEGMENT - Date of Issue**		C	1	30	C	10							
					See X12 Standards Draft Version 4 Release 1 for explanation of Syntax Notes: 02= R020305; 04= C0403; 05= P0506										

DoD INFORMATION				DoD	X12 SEGMENT INFORMATION							X12 ELEMENT INFORMATION			
Index	DG	Data Name	Notes and Codes	Recommended Attributes	Tabl	Pos	Req Des	Max Use	Lp Rpt	Lp Lv	Lp ID	Ref Des	DE #	(Simple) Attributes	(Composite) Attributes
9	10	Date Qualifier Always use 164 when BGM03 equals ME. 164 - First Issue 170 - Supplemental Issue		M ID 3/3	1	30		10				DTM01	374	M ID 3/3	
10	10	Date of Issue CHANGE NOTE: Due to X12 Standards change, use date format CCYYMMDD.		C DT 8/8	1	30		10				DTM02	373	C DT 8/8	
11	80	**MIT SEGMENT - SDDC Solicitation File ID**		M	2	10	M	1	>1	1	MIT				
12	80	SDDC Solicitation File ID This item is the SDDC Solicitation File Identifier, if available, or the Solicitation ID.		M AN 1/30	2	10		1	>1	1	MIT	MIT01	127	M AN 1/30	
13	80	**MSG SEGMENT - Cover Letter/Award Memorandum**		M	2	80	M	10000	200	1	MIT				
					See X12 Standards Draft Version 4 Release 1 for explanation of Syntax Notes: 03= C0302										
14	80	Cover Letter/Award Memorandum of Clear Text This item will contain a line of clear text no longer than 264 characters.		M AN 1/264	2	80		10000	200	1	MIT	MSG01	933	M AN 1/264	
15	80	Cover Letter/Award Memorandum Printer Carriage Control Code Use this code to insert lines and page breaks before printing the clear text that appears in MSG01. AT - Advanced Three Lines Before Print DS - Advance two lines before print NP - Advance to next page before print NS - No advance before print SS - Advance to new line before print		C ID 2/2	2	80		10000	200	1	MIT	MSG02	934	C ID 2/2	
16	900	**SE SEGMENT - GT Award and Cover Letter Trailer**		M	3	10	M	1							

DoD INFORMATION					X12 SEGMENT INFORMATION							X12 ELEMENT INFORMATION			
Index	DG	Data Name	Notes and Codes	DoD Recommended Attributes	Tabl	Pos	Req Des	Max Use	Lp Rpt	Lp Lv	Lp ID	Ref Des	DE #	(Simple) Attributes	(Composite) Attributes
17	900	Number of Included Segments Total segments in this transaction set including the ST and SE segments.		M N0 1/6	3	10		1				SE01	96	M N0 1/10	
18	900	Transaction Set Control Number This data element ends the transaction set and should match the number that appears in the ST02 that begins the transaction set.		M AN 4/9	3	10		1				SE02	329	M AN 4/9	

Section 5.0

IC ELEMENTS IN EDI FORMAT

Contents

This section contains examples of the 864 transaction set as used for the Department of Defense (DoD) Tailored Transportation Contract Traffic Solicitation Cover Letter and Solicitation Award Letter.

Example 1 illustrates a Solicitation Cover Letter that would be attached to a TTC solicitation package.

Example 2 illustrates a Solicitation Award Letter that MSDDC would send to carriers who were designated as awarded carriers for specific solicitation awards.

Section 7.0 shows these same examples as they are printed by MSDDC's GT*STEP system.

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Example 1 – Solicitation Cover Letter

ST~864~0001 n/l

BMG~00~90099400 DDOO TO SOUTHWEST REGION (AZ,CA,NV)~ME n/l

DTM~164~970911 n/l

MIT~D-97-07 n/l

MSG~September 10, 1997~DS n/l

MSG~Transportation Services~DS n/l

MSG~SUBJECT: Tailored Transportation Contract Traffic (TTC) from Defense Distribution Depot, Oklahoma (DDOO), to All Points in the Contiguous United States (CONUS) (D-97-07-SB)~DS n/l

MSG~Dear Sir/Madam:~AT n/l

MSG~ The Department of Defense (DOD) is interested in allocating traffic for less-than-truckload (LTL) and truckload (TL) requirements to Military Surface Deployment and Distribution Command (MSDDC) qualified carriers, for the period December 1, 1997 through November 30, 1999.~DS n/l

MSG~All offers in response to the requirements of this solicitation are subject to the provisions contained in the MSDDC Tailored Transportation Contract Traffic Rules Publication (MGTRP) Number 50.~SS n/l

MSG~ Certain freight which may qualify as rail movements in the future, will not be considered as part of this tonnage allocation. The Government reserves the option to use rail as it determines feasible. Intermodal submissions confined to trailer on flatcar~DS n/l

MSG~(TOFC)/container on flatcar (COFC) door-to-door service will be considered.~SS n/l

MSG~ Commodity(ies): Freight all kinds (DOD Unique Code 999922).~DS n/l

MSG~ The following information is shown as enclosures to this solicitation:~DS n/l

MSG~ a. Carrier Qualification (Enclosure 1).~DS n/l

MSG~ b. Shipper Requirements/Equipment/Operations (Enclosure 2).~DS n/l

MSG~ c. Origin(s) and Destination(s) and/or Regions(s) (Enclosure 3).~DS n/l

MSG~ d. List of Major Destination(s) with or without Weight/Shipment Information (Enclosure 4).~DS n/l

MSG~ e. Method of Evaluation (Enclosure 5).~DS n/l

MSG~ f. Submission/Tender Completion Instructions (Enclosure 6).~DS n/l

MSG~ g. Problems in Tender Filings (carrier's responsibility for tender filings). HANDWRITTEN OR ILLEGIBLY TYPED SUBMISSIONS ARE NO LONGER ACCEPTABLE (Enclosure 7).~DS n/l

MSG~ h. Tenders (Enclosure 8).~DS n/l

MSG~ i. Certificate of Independent Pricing (Carrier must submit one signed copy to be responsive (Enclosure 9).~DS n/l

MSG~ Carriers interested in this traffic must submit two original signed copies of each applicable tender to arrive at the following address by 3 p.m. eastern time (ET) on Friday, October 1, 1997:~DS n/l

MSG~ Headquarters, Military Surface Deployment and Distribution Command~DS n/l

MSG~ ATTN: MTOP-T-ND (MS. BROWN)~SS n/l

MSG~ Room 117~SS n/l

MSG~ 5611 Columbia Pike~SS n/l

MSG~ Falls Church, Virginia 22041-5050~SS n/l

MSG~ FILE: D-97-07-SB (Carriers must show their Standard Carrier Alpha Code (SCAC) next to the file number).~DS n/l

MSG~ Submissions received after 3 p.m. ET will be returned and not considered. Carriers are advised that an opening will be held on Monday, October 2, 1997, starting at 9 a.m. ET at the above address. In the event this is declared a non-business day, the~DS n/l

MSG~same conditions will apply to the next business day.~SS n/l

MSG~ Point of contact is MS. BROWN, MTOP-T-ND, (703) 681-6103.~DS n/l

MSG~ Sincerely,~DS n/l

MSG~.~SS n/l

MSG~.~SS n/l

MSG~.~SS n/l

MSG~.~SS n/l

MSG~ Bob Smith~SS n/l

MSG~ Director, Joint Traffic Management Office~SS n/l

MSG~Enclosures~AT n/l

SE~42~0001 n/l

Example 2 – Solicitation Award Letter

ST~864~0002 n/l

BMG~00~90090900 TEST DDSP TO CONUS (MATRIX 3, AV)~65 n/l

DTM~164~970731 n/l

MIT~D-97-10-KM n/l

MSG~SUBJECT: Tailored Transportation Contract Traffic (TTC) from Defense Distribution Depot, Susquehanna, PA (DDSP), to All Points in the Contiguous United States (CONUS) (D-97-10-KM)~DS n/l

MSG~1. Reference solicitation letter, MTTM, 12 Apr 97, SAB.~DS n/l

MSG~2. Based on our evaluation, the carriers listed below are designated as primary and alternates for subject traffic during the period 1 Aug 97 through 31 Jul 99. Subject traffic shown below is identified by tender ID as follows:~DS n/l

MSG~Less-than-Truckload Van 0001-0010; Truckload Van 0011-0020; Truckload Flat Bed 0021-0030; Less-than-Truckload Flat Bed 0031-0032; Less-than-Truckload Van (Tires) 0033; Point-to-Point Van 0034-0041; Point-to-Point Flat Bed 0042-0043; and Round Trip 0044.~SS n/l

MSG~3. POC is Mrs. Pat Settle, MTTM-D, 703-681-6554 or DSN 289-6554, FAX 703-681-8388, Internet settlep@sddc.army.mil.~DS n/l

MSG~TnID Award SCAC Carrier Name TndNo DistNo~AT n/l

MSG~----------~SS n/l

MSG~ 0001 PRIMARY CFWY CONSOLIDATED FREIGHT WAYS, INC. 682312 293827~SS n/l

MSG~ 0001 1ST ALT YFSY YELLOW FREIGHT SYSTEM, INC. 675544 293828~SS n/l

MSG~ 0001 2ND ALT ABFS ABF FREIGHT SYSTEMS 678911 293829~SS n/l

MSG~ PATRICIA R. MALONEY~AT n/l

MSG~ Chief, DLA Customer Service Division~SS n/l

MSG~ JTMO~SS n/l

MSG~CF: ~DS n/l

MSG~GSA, ATTN: FW, Washington, DC~SS n/l

MSG~DLA, ATTN: DLA-MMDTT, Fort Belvoir, VA~SS n/l

MSG~DDRE, ATTN: DDRE-TT, New Cumberland, PA~SS n/l

MSG~DDSP, ATTN: DDSP-T, New Cumberland, PA~SS n/l

SE~23~0002 n/l

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Section 7.0

PAPER ENVIRONMENT BUSINESS FORMS

The IC provides information that enables trading partners to translate a paper business form to EDI format. The letters conveyed using this IC were previously delivered as text documents and have no official form. This section, therefore, contains examples of the letter forms as they are printed by MSDDC's GT*STEP system.

Example 1 illustrates a Solicitation Cover Letter that would be attached to a TTC solicitation package.

Example 2 illustrates a Solicitation Award Letter that MSDDC would send to carriers who were designated as awarded carriers for specific solicitation awards.

Section 5.0 shows these same examples in EDI format.

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900994 DDOO TO SOUTHWEST REGION (AZ, CA, NV)

September 10, 1997

Transportation Services

SUBJECT: Tailored Transportation Contract Traffic (TTC) from Defense Distribution Depot, Oklahoma (DDOO), to All Points in the Contiguous United States (CONUS) (D-97-07-SB)

Dear Sir/Madam:

The Department of Defense (DOD) is interested in allocating traffic for less-than-truckload (LTL) and truckload (TL) requirements to Military Surface Deployment and Distribution Command (MSDDC) qualified carriers, for the period December 1, 1997 through November 30, 1999. All offers in response to the requirements of this solicitation are subject to the provisions contained in the MSDDC Tailored Transportation Contract Traffic Rules Publication (MGTRP) Number 50.

Certain freight which may qualify as rail movements in the future, will not be considered as part of this tonnage allocation. The Government reserves the option to use rail as it determines feasible. Intermodal submissions confined to trailer on flatcar (TOFC)/container on flatcar (COFC) door-to-door service will be considered.

Commodity(ies): Freight all kinds (DOD Unique Code 999922).

The following information is shown as enclosures to this solicitation:

a. Carrier Qualification (Enclosure 1).

b. Shipper Requirements/Equipment/Operations (Enclosure 2).

c. Origin(s) and Destination(s) and/or Regions(s) (Enclosure 3).

d. List of Major Destination(s) with or without Weight/Shipment Information (Enclosure 4).

e. Method of Evaluation (Enclosure 5).

f. Submission/Tender Completion Instructions (Enclosure 6).

g. Problems in Tender Filings (carrier's responsibility for tender filings). HANDWRITTEN OR ILLEGIBLY TYPED SUBMISSIONS ARE NO LONGER ACCEPTABLE (Enclosure 7).

h. Tenders (Enclosure 8).

i. Certificate of Independent Pricing (Carrier must submit one signed copy to be responsive (Enclosure 9).

Carriers interested in this traffic must submit two original signed copies of each applicable tender to arrive at the following address by 3 p.m. eastern time (ET) on Friday, October 1, 1997:

Headquarters, Military Surface Deployment and Distribution Command
ATTN: MTOP-T-ND (MS. BROWN)
Hoffman II, 200 Stovall Street
Alexandria VA 22332

FILE: D-97-07-SB (Carriers must show their Standard Carrier Alpha Code (SCAC) next to

the file number).

Submissions received after 3 p.m. ET will be returned and not considered. Carriers are advised that an opening will be held on Monday, October 2, 1997, starting at 9 a.m. ET at the above address. In the event this is declared a non-business day, the same conditions will apply to the next business day.

Point of contact is MS. BROWN, MTOP-T-ND, (703) 681-6103.

Sincerely,

Bob Smith
Director, Joint Traffic Management Office

Enclosures

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AWARD LETTER

Solicitation: 900909 TEST DDSP TO CONUS (MATRIX 3, AV)
Award: 01 INITIAL AWARD
Date: 7/31/97

SUBJECT: Tailored Transportation Contract Traffic (TTC) from Defense Distribution Depot, Susquehanna, PA (DDSP), to All Points in the Contiguous United States (CONUS) (D-97-10-KM)

1. Reference solicitation letter, MTTM, 12 Apr 97, SAB.

2. Based on our evaluation, the carriers listed below are designated as primary and alternates for subject traffic during the period 1 Aug 97 through 31 Jul 99. Subject traffic shown below is identified by tender ID as follows: Less-than-Truckload Van 0001-0010; Truckload Van 0011-0020; Truckload Flat Bed 0021-0030; Less-than-Truckload Flat Bed 0031-0032; Less-than-Truckload Van (Tires) 0033; Point-to-Point Van 0034-0041; Point-to-Point Flat Bed 0042-0043; and Round Trip 0044.

3. POC is Mrs. Pat Settle, MTTM-D, 703-681-6554 or DSN 289-6554, FAX 703-681-8388, Internet settlep@baileys-emh5.army.mil.

TnID	Award	SCAC	Carrier Name	TndNo	DistNo
0001	PRIMARY	CFWY	CONSOLIDATED FREIGHT WAYS, INC.	682312	
	293827				
0001	lST ALT	YFSY	YELLOW FREIGHT SYSTEM, INC.	675544	
	293828				
0001	2ND ALT	ABFS	ABF FREIGHT SYSTEMS	678911	
	293829				

PATRICIA R. MALONEY
Chief, DLA Customer Service Division
JTMO

CF:
GSA, ATTN: FW, Washington, DC
DLA, ATTN: DLA-MMDTT, Fort Belvoir, VA
DDRE, ATTN: DDRE-TT, New Cumberland, PA
DDS?, ATTN: DDSP-T, New Cumberland, PA

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Section 9.0

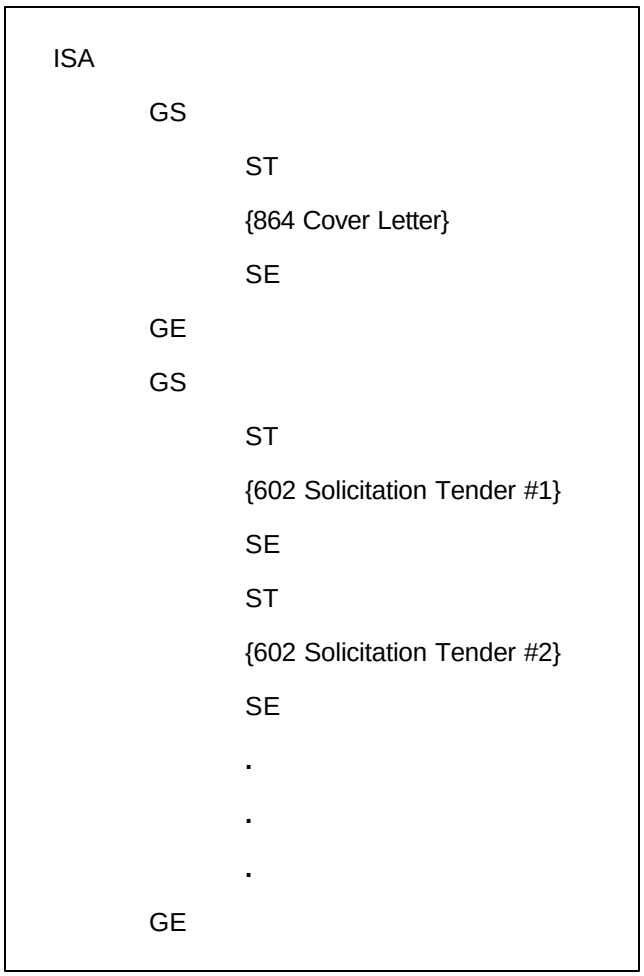
ADDITIONAL INFORMATION FOR THE DEVELOPER

This section describes the data groups cited in the IC element matrix (Section 4.0).

Electronic Solicitations

An electronic solicitation consists of a cover letter (Transaction Set 864) and one or more related tenders (Transaction Set 602). All of the transaction sets related to a solicitation are assigned the same solicitation ID. Additionally, when the Military Surface Deployment and Distribution Command (MSDDC) published a solicitation, the X12 control segments are used to group transaction sets related to the same solicitation. Figure 9-1 details this relationship. The implementation of the 602 is detailed in a separate DoD EDI convention document.

Figure 9-1 Electronic Solicitation Control Segment Hierarchy



IEA

Data Groups

Table 9-1 summarizes the IC data groups a programmer observes to construct an 864 transaction set.

Table 9-1 864 Data Exchange Flows

Data Group Number	*Data Group Description*	*Notes*
10	Header Information	Occurs once per 864 transaction.
80	Letter Text	This group carries all clear text information for a letter.
900	Transaction Trailer Information	Occurs once per 824 transaction.