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DoD
Electronic Data
Interchange (EDI)
Convention

ASC X12 Transaction Set 824
Application Advice
(Version 003010)

DL203LN6

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Department
of
Defense

DoD Electronic Data Interchange (EDI) Convention

ASC X12 Transaction Set 824
Application Advice
(Version 003010)

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

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1.0 INTRODUCTION

This chapter explains the purpose of the convention, the scope of the guidance, and provides an explanation of how to use the convention.

1.1 PURPOSE OF THE CONVENTION

The convention provides general guidance on the implementation of American National Standards Institute (ANSI) Accredited Standards Committee (ASC) X12 electronic data interchange (EDI) standards within automated information systems (AIS) and information interchange procedures that require the collection, reporting, and/or exchange of data needed to perform defense missions.

1.2 SCOPE

The guidance is provided for two components. First, it may be used by organizational elements of the DoD community. It may also be useful to organizations external to DoD that exchange data with the DoD community in the course of their business relationships.

The DoD community encompasses the Military Services, Organizations of the Joint Chiefs of Staff, Unified and Specified Commands, Office of the Secretary of Defense, and the Defense agencies. (That community is collectively referred to as the DoD Components.)

Organizational entities external to DoD include (a) non-Government organizations, both commercial and nonprofit; (b) Federal agencies of the United States Government other than DoD; (c) local and state governments; (d) foreign national governments; and (e) international government organizations.

The draft convention published in this document is for trial use and comment. DoD Components must submit to the DoD EDI Executive Agent (EA) their data requirements that are not covered in the conventions as soon as possible, as indicated in Chapter 2.0, Section 2.1.

1.3 RESPONSIBLE ENTITY

The Defense Logistics Agency (DLA) is DoD's Executive Agent for implementing and maintaining Defense-wide programs for (a) EDI in accordance with DepSecDef memorandum of May 24, 1988, Subject: *Electronic Data Interchange of Business-Related Transactions*; and (b) Protection of Logistics Unclassified/Sensitive Systems (PLUS) in accordance with Assistant Secretary of Defense (Production and Logistics) [ASD(P&L)] memorandum of November 21, 1989, Subject: *Production and Logistics Task Group for Data Protection*. Publication of these conventions is based upon this authority. See Chapter 2.0 *Maintenance*, Section 2.1 for office point of contact.

1.4 HOW TO USE THE IMPLEMENTATION CONVENTION

The main topics and structures of this document conform to the *EDI Implementation Reference Manual Guidelines* document that was developed by a task group of the subcommittee on education and implementation of the ASC X12. The purpose of having agreed-upon topics and structure is to facilitate reference by the many industry and DoD personnel who are involved in implementing the uniform standards for electronic interchange of business transactions.

1.4.1 Conventions, Standards, and Guidelines

The terms conventions, standards, and guidelines are used throughout the document and are defined as follows:

- *Conventions* are the common practices and/or interpretations of the use of ASC X12 standards. Conventions define what is included in a specific implementation of an ASC X12 standard.
- *Standards* are the technical documentation approved by ASC X12; specifically, transaction sets, segments, data elements, code sets, and interchange control structure. Standards provide the structure for each ASC X12 document.
- *Guidelines* are instructions on the use of EDI. They provide additional information to assist in conducting EDI. Guidelines are intended to provide assistance and should not be your sole source of information.

1.4.1.1 Who Develops the Conventions?

Conventions result from a joint effort between business, technical, and EDI ASC X12 standards experts. The business data requirement is defined, a transaction set is selected, and the data requirement is then identified with data elements in the transaction set. A convention is usually developed before any computer EDI systems development work and serves as a design document when the development process begins.

1.4.1.2 Why Use a Convention?

To create an ASC X12 transaction, a user must know the data requirements, understand the ASC X12 standard, and be able to use that information to develop an interface program between the computer application and the ASC X12 translator. The necessary information to perform this task is contained in the convention document. Users who follow the convention will create a transaction set that all DoD users understand.

1.4.1.3 Who Needs a Convention?

System analysts and application programmers who plan to create or read ASC X12 transactions use a convention to aid in interface software design. The convention will help the programmer and analyst identify where their application data requirement should be carried in an ASC X12 transaction set.

1.4.4.4 Can I Develop a Convention?

Conventions already exist for some of the most common business practices. Copies of existing conventions can be acquired through your organization's EDI coordinator at the start of an EDI project. If you find no conventions for the business practice you are about to implement, your EDI coordinator should contact the DoD Executive Agent for EDI. See Chapter 2.0, *Maintenance*, Section 2.1 for the point of contact.

1.4.2 Documentation of Conventions

Conventions are adopted from, and are intended to be in conformance with, ANSI ASC X12 standards or ASC X12 Draft Standards for Trial Use (DSTU).

1.4.2.1 Transaction Set

Figure 1.4-1 provides an example of a transaction set table. The transaction set defines information of business or strategic significance and consists of a transaction set header segment, one or more data segments in a specified order, and a transaction set trailer segment. The actual ASC X12 standard as it appears in the official ASC X12 standards manual is presented on the right side of the page. This standard also includes both syntax notes and comments. The specific DoD usage designator is presented on the left side of the page.

The designation "N/U" appears in the left column if DoD does not use the specific segment. A page number will appear if the segment is used.

1.4.2.2 Transaction Set Segment

Figure 1.4-2 is an example of a transaction set segment.

DoD usage is specified on the left side of the page. For identifier (ID) — type data elements, acceptable code values are listed on the right side of the page under the definitions of the element.

DoD notes, reflecting how the convention is to be used appear on the right side of the page at the segment level or the data element level.

The following definitions are for use in interpreting the data element requirement designators in the DoD-specific segment directory section of the convention. For ASC X12 usage, see the definitions in *X12.6 Application Control Structure*.

- *Mandatory*
Mandatory data elements are defined by ASC X12.
- *Optional*
Optional data elements are used at the discretion of the sending party or are based upon mutual agreement between trading partners.

824 Application Advice

This standard provides the format and establishes the data contents of the Application Advice Transaction Set (824) within the context of an Electronic Data Interchange (EDI) environment. This transaction set provides the ability to report the results of an application system's data content edits of transaction sets. The results of editing transaction sets can be reported at the functional group and transaction set level, in either coded or free-form format. It is designed to accommodate the business need of reporting the acceptance, rejection or acceptance with change of any transaction set. The Application Advice should not be used in place of a transaction set designed as a specific response to another transaction set (e.g., purchase order acknowledgement sent in response to a purchase order).

Table 1

PAGE #	POS #	SEQ. ID	NAME	REQ. DES.	MAX USE	LOOP REPEAT
2	010	ST	Transaction Set Header	M	1	
3	020	BGN	Beginning Segment	M	1	
LOOP ID - N1						2
4	030	N1	Name	O	1	
5	040	N2	Additional Name Information	O	2	
6	050	N3	Address Information	O	2	
7	060	N4	Geographic Location	O	1	
8	070	REF	Reference Numbers	O	12	
9	080	PER	Administrative Communications Contact	O	3	

Table 2

PAGE #	POS #	SEQ. ID	NAME	REQ. DES.	MAX USE	LOOP REPEAT
LOOP ID - OTI						10000
10	010	OTI	Original Transaction Identification	M	1	
12	020	REF	Reference Numbers	O	12	
13	030	DTM	Date/Time Reference	O	2	
N/U	040	PER	Administrative Communications Contact	O	3	
N/U	050	AMT	Monetary Amount	O	10	
N/U	060	QTY	Quantity	O	10	
LOOP ID - TED						10000
14	070	TED	Technical Error Description	O	1	
15	080	NTE	Note/Special Instruction	O	100	
16	090	SE	Transaction Set Trailer	M	1	

Figure 1.4-1 Example of a Transaction Set Table

824 - APPLICATION ADVICE
BGN - BEGINNING SEGMENT

ANSI ASC X12 VERSION/RELEASE 003010D00

	Segment: BGN Beginning Segment																																																																		
	Level: Header																																																																		
	Loop: _____																																																																		
Mandatory	Us: Mandatory																																																																		
	Max Use: 1																																																																		
	Purpose: To indicate the beginning of a transaction set.																																																																		
	Syntax: If BGN05 is used, BGN04 is required.																																																																		
	Comments: 1. BGN02 is the Transaction Set Reference Number.																																																																		
	2. BGN03 is the Transaction Set Date.																																																																		
	3. BGN04 is the Transaction Set Time.																																																																		
	4. BGN05 is the transaction set time qualifier.																																																																		
	Data Element Summary																																																																		
	<table><thead><tr><th>REF. DES.</th><th>DATA ELEMENT</th><th>NAME</th><th colspan="3">ATTRIBUTES</th></tr></thead><tbody><tr><td>Mandatory</td><td>BGN01</td><td>353 Transaction Set Purpose Code Code identifying purpose of transaction set.</td><td>M</td><td>ID</td><td>2/2</td></tr><tr><td></td><td></td><td>00 Original</td><td></td><td></td><td></td></tr><tr><td></td><td></td><td>01 Cancellation</td><td></td><td></td><td></td></tr><tr><td></td><td></td><td>04 Change</td><td></td><td></td><td></td></tr><tr><td></td><td></td><td>12 Not Processed</td><td></td><td></td><td></td></tr><tr><td>Mandatory</td><td>BGN02</td><td>127 Reference Number Reference number or identification number as defined for a particular Transaction Set, or as specified by the Reference Number Qualifier.</td><td>M</td><td>AN</td><td>1/30</td></tr><tr><td>Mandatory</td><td>BGN03</td><td>373 Date Date (YYMMDD).</td><td>M</td><td>DT</td><td>6/6</td></tr><tr><td>Conditional</td><td>BGN04</td><td>337 Time Time expressed in 24-hour clock time (HHMM, time range: 0000 though 2359).</td><td>C</td><td>TM</td><td>4/4</td></tr><tr><td></td><td colspan="5">Implementation Note: Use HHMM.</td></tr><tr><td>Not Used</td><td>BGN05</td><td>623 Time Code</td><td>O</td><td>ID</td><td>2/2</td></tr></tbody></table>	REF. DES.	DATA ELEMENT	NAME	ATTRIBUTES			Mandatory	BGN01	353 Transaction Set Purpose Code Code identifying purpose of transaction set.	M	ID	2/2			00 Original						01 Cancellation						04 Change						12 Not Processed				Mandatory	BGN02	127 Reference Number Reference number or identification number as defined for a particular Transaction Set, or as specified by the Reference Number Qualifier.	M	AN	1/30	Mandatory	BGN03	373 Date Date (YYMMDD).	M	DT	6/6	Conditional	BGN04	337 Time Time expressed in 24-hour clock time (HHMM, time range: 0000 though 2359).	C	TM	4/4		Implementation Note: Use HHMM.					Not Used	BGN05	623 Time Code	O	ID	2/2
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	Implementation Note: Use HHMM.																																																																		
Not Used	BGN05	623 Time Code	O	ID	2/2																																																														

Figure 1.4-2 Example of a Transaction Set Segment

- *Required*
Required data elements are considered optional under ASC X12 rules, but are required by DoD decision.
- *Recommended*
Recommended data elements are considered optional under ASC X12 rules and by the DoD, but the industry recommends their use to facilitate EDI. Most companies in the industry are expected to use this data element.
- *Not Used*
"Not Used" data elements are those that the DoD does not use.
- *Conditional*
Conditional data elements depend on the presence of other data elements in the transaction set.

2.0 MAINTENANCE

This chapter describes the procedures for maintaining the DoD conventions. It also presents a section on version/release timing.

2.1 MAINTAINING CONVENTIONS

The DLA, as DoD's Executive Agent for EDI and PLUS, has established a joint program office to oversee implementation of EDI. Some of the functions of this program office are to maintain configuration control of related standards and common support packages (e.g., versions of ASC X12 standards and PLUS algorithms employed), participate in the standards-setting process, and ensure compliance with approved EDI standards.

To accomplish these functions, the joint program office has established a conventions and standards development and maintenance process whose objectives are: (1) to obtain ASC X12 data requirements from the DoD Components and present the requirements to the ASC X12 for consideration as ANSI standards, and (2) to develop and maintain conventions for use by DoD Components and their potential trading partners.

To take advantage of, and not duplicate, existing data standardization processes, the EA has established focal points within the ASD Offices, the Military Services, and the Defense Agencies from which EDI information is obtained and disseminated.

The EA's primary source of information about DoD's data requirements is the EDI User.

Changes to this publication and recommended changes to ANSI ASC X12 should be forwarded through your organizational point of contact for data standardization to:

EDI Standards Coordinator
ATTN: DLA-ZC
Cameron Station
Alexandria, VA 22304-6100

See Chapter 4 for reproducible ASC X12 Work Request forms.

2.2 VERSION/RELEASE TIMING

Identification of the official "version" of a standard is critical to the successful interchange of information. Each participant must be able to send and receive the same version to ensure the accuracy of the information exchanged.

The version is transmitted as a 12-character code in the Functional Group Header segment (GS) in Data Element #480, Version/Release/Industry ID. This 12-character code is used by ASC X12 as follows:

<u>Position</u>	<u>Content</u>
1-3	Version number
4-5	Release level of version
6	Subrelease
7-12	DoD/Industry or Trade Association ID

ASC X12 assigns the codes in positions 1 through 6.

A major version (1-3) will change only after an official public review cycle, leading to republication of a new American National Standard.

Release level of each new major version (4-6) will begin at "000" and incremented by 1 for each new ASC X12 approved publication cycle, usually once a year. The fifth character designates the release and the sixth character designates the subrelease.

DoD/Industry/Trade Association ID (7-12) is used to identify conventions. For this suffix, DoD will use "DoD_" with the 10th character identifying successive publications. The 11th and 12th characters may be used by the Military Departments or Defense Agencies.

DoD conventions for using ASC X12 standards are published annually. Conventions developed for each release will be maintained for 4 years. Military Services and DoD Agencies will determine which release to use on the basis of business need but will not use any release more than 4 years old without approval of the DoD EA.

3.0 DoD CONVENTIONS FOR USING ASC X12 TRANSACTION SETS

This chapter defines the DoD transaction set conventions. It includes the instructions for implementing the control structure and definitions of the usage indicators and applicable codes.

3.1 INTRODUCTION

The power of the ASC X12 standard is in its building block concept, which standardizes the essential elements of business transactions. It is analogous to a "standard bill of materials and the construction specifications," which gives the architect flexibility in what can be designed with standardized materials and procedures. The EDI system designer, like the architect, uses the ASC X12 standards to build business transactions that are often different because of their function and yet utilize the ASC X12 standards. The "bill of materials and the construction specification" of ASC X12 are the standards found in the published technical documentation.

ASC X12.3 – The *Data Element Dictionary* specifies the data elements used in the construction of the segments that comprise the transaction sets developed by ASC X12.

ASC X12.5 – The *Interchange Control Structure* provides the interchange control segment (also called an envelope) of a header and trailer for the electronic interchange through a data transmission; it also provide a structure to acknowledge the receipt and processing of the envelope.

ASC X12.6 – The *Application Control Structure* defines the basic control structures, syntax rules, and semantics of EDI.

ASC X12.22 – The *Data Segment Directory* provides the definitions and specifications of the segments used in the construction of transaction sets developed by ASC X12.

The DoD convention in Section 3.4 conform to the above standards and each transaction set is a complete document to the extent possible. For further clarification of acronyms, abbreviations, and codes, refer to ASC X12 published technical documentation. Contact the DoD EDI Executive Agent for copies or the Data Interchange Standards Association, Inc., Suite 355, 1800 Diagonal Road, Alexandria, VA 22314.

3.2 CONTROL SEGMENTS

In addition to the communication control structure, the EDI structure provides the standards user with multiple levels of control to ensure data integrity. It does so by using header and trailer control segments

designed to identify uniquely the start and end of the interchange functional groups and transaction sets. The relationship of these control segments is shown in Figure 3.2-1. Control Segment specifications are defined in Section 3.2.2.

3.2.1 Description of Use

The interchange header and trailer segments surround one or more functional groups or interchange-related control segments and perform the following functions:

- Define the data element separators and data segment terminators
- Identify the sender and receiver
- Provide control information
- Allow for authorization and security information.

The Interchange Acknowledgment Segment is used to acknowledge one interchange header and trailer envelope where the envelope surrounds one or more functional groups. (No acknowledgment is made for the interchange acknowledgment.)

The interchange control number value in the acknowledgment (TA1 segment) is the same as that for the ISA segment that is being acknowledged. The control number serves as a link between the interchange header and trailer and the acknowledgment of that header and trailer.

The interchange acknowledgment does not report any status on the functional groups contained in the interchange and is separate from the communication system's error procedures.

The preparer of the interchange header and trailer indicates the level of acknowledgment in Data Element 113, Acknowledgment Requested. If an acknowledgment is requested, then the recipient must return an acknowledgment. If not requested, none should be given.

The interchange acknowledgment control segments are placed after the interchange header and before the first functional group or before the interchange trailer if there are no functional groups.

Control segments are standard for all implementation conventions produced for the Department of Defense. Some codes associated with individual data elements within the control segments are unique to the individual transaction set. Others, identify the ANSI version and release in which the convention is written.

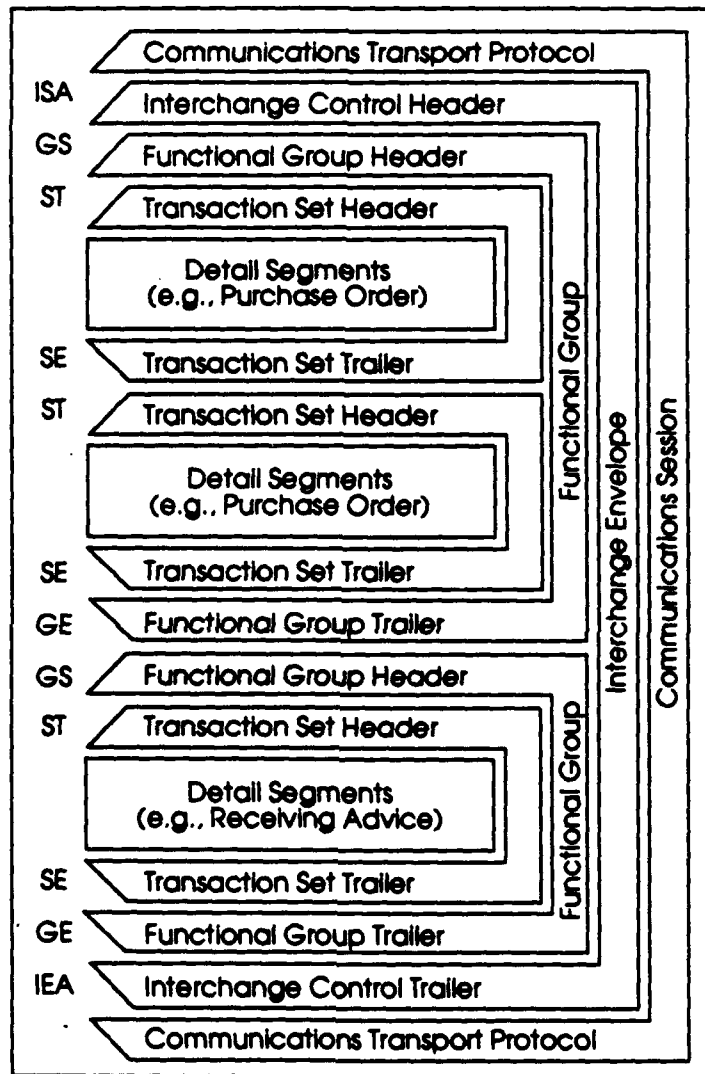


Figure 3.2-1. Hierarchical Structure

3.2.2 Control Segment Specifications

Segment: ISA Interchange Control Header

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

Data Element Summary

	REF. DES.	DATA ELEMENT	NAME	ATTRIBUTES
Mandatory	ISA01	I01	Authorization Information Qualifier Code to identify the type of information in the Authorization Information. 00 No Authorization Information Present (No Meaningful Information in I02)	M ID 2/2
Mandatory	ISA02	I02	Authorization Information Information used for additional identification or authorization of the sender or the data in the interchange. The type of information is set by the Authorization Information Qualifier.	M AN 10/10
			Implementation Note: If no authorization information is agreed to by trading partners, fill field with blanks.	
Mandatory	ISA03	I03	Security Information Qualifier Code to identify the type of information in the Security Information. 01 Password	M ID 2/2
Mandatory	ISA04	I04	Security Information This is used for identifying the security information about the sender or the data in the interchange. The type of information is set by the Security Information Qualifier.	M AN 10/10
			Implementation Note: An agreed upon password. If no security information is agreed to by trading partners, fill field with blanks.	
Mandatory	ISA05	I05	Interchange ID Qualifier Qualifier to designate the system/method of code structure used to designate the sender or receiver ID element being qualified. ZZ Mutually Defined	M ID 2/2
			Code Value Implementation Note: An agreed upon designation of DoD Activity Address Code (DoDAAC) or other code coordinated with the value-added network (VAN).	
Mandatory	ISA06	I06	Interchange Sender ID 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 number in the sender ID element.	M ID 15/15
			Implementation Note: 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.	
Mandatory	ISA07	I05	Interchange ID Qualifier Qualifier to designate the system/method of code structure used to designate the sender or receiver ID element being qualified. ZZ Mutually Defined	M ID 2/2

DEPARTMENT OF DEFENSE
DRAFT IMPLEMENTATION CONVENTION

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ANSI ASC X12 VERSION/RELEASE 003010DOD

001 - CONTROL SEGMENTS
ISA - INTERCHANGE CONTROL HEADER

		Code Value Implementation Note: <i>An agreed upon designation of DoD Activity Address Code (DoDAAC) or other code coordinated with the value-added network (VAN).</i>		
Mandatory	ISA08	I07	Interchange Receiver ID	M ID 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.		
		Implementation Note: <i>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.</i>		
Mandatory	ISA09	I08	Interchange Date	M DT 6/6
		Date of the interchange.		
		Implementation Note: <i>Assigned by translation software. YYMMDD</i>		
Mandatory	ISA10	I09	Interchange Time	M TM 4/4
		Time of the interchange.		
		Implementation Note: <i>Assigned by translation software. HHMM</i>		
Mandatory	ISA11	I10	Interchange Control Standards Identifier	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.		
		U U.S. EDI Community of ASC X12, TDCC, and UCS		
Mandatory	ISA12	I11	Interchange Control Version Number	M ID 5/5
		This version number covers the interchange control segments and the functional group control segments.		
		00301 Draft Standard for Trial Use Approved for Publication by ASC X12 Procedures Review Board Through October 1990		
		Code Value Implementation Note: <i>Version ID as defined or agreed upon by the trading partners.</i>		
Mandatory	ISA13	I12	Interchange Control Number	M NO 9/9
		This number uniquely identifies the interchange data to the sender. It is assigned by the sender. Together with the sender ID it uniquely identifies the interchange data to the receiver. It is suggested that the sender, receiver, and all third parties be able to maintain an audit trail of interchanges using this number.		
Mandatory	ISA14	I13	Acknowledgment Requested	M ID 1/1
		Code sent by the sender to request an interchange acknowledgment.		
		0 No Acknowledgment Requested 1 Interchange Acknowledgment Requested		
Mandatory	ISA15	I14	Test Indicator	M ID 1/1
		Code to indicate whether data enclosed by this interchange envelope is test or production.		
		P Production Data T Test Data		

		Code Value Implementation Note: <i>Assigned by translation software.</i>		
Mandatory	ISA16	I15	Subelement Separator	M AN 1/1
	This is a field reserved for future expansion in separating data element subgroups. (In the interest of a migration to international standards, this should be different from the data element separator).			
		Implementation Note: <i>Use character "<".</i>		

DEPARTMENT OF DEFENSE
DRAFT IMPLEMENTATION CONVENTION

824 APPLICATION ADVICE
ANSI ASC X12 VERSION/RELEASE 003010DOD

001 - CONTROL SEGMENTS
GS - FUNCTIONAL GROUP HEADER

Segment: GS Functional Group Header

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

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

Comment: 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.

Data Element Summary

	REF. DES.	DATA ELEMENT	NAME	ATTRIBUTES
Mandatory	GS01	479	Functional Identifier Code Code identifying a group of application related Transaction Sets.	M ID 2/2
Implementation Note: Choose the code value appropriate to the information content of the functional group. See X12 Dictionary for source code list. AG Acceptance/Rejection Advice (999) and Application Advice (824)				
Mandatory	GS02	142	Application Sender's Code Code identifying party sending transmission. Codes agreed to by trading partners.	M AN 2/15
Implementation Note: 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.				
Mandatory	GS03	124	Application Receiver's Code Code identifying party receiving transmission. Codes agreed to by trading partners.	M AN 2/15
Implementation Note: 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.				
Mandatory	GS04	29	Group Date Date sender generated a functional group of transaction sets.	M DT 6/6
Implementation Note: Assigned by translation software.				
Mandatory	GS05	30	Group Time Time (HHMM) when the sender generated a functional group of transaction sets (local time at sender's location).	M TM 4/4
Implementation Note: Assigned by translation software.				
Mandatory	GS06	28	Group Control Number Assigned number originated and maintained by the sender.	M NO 1/9

DEPARTMENT OF DEFENSE
DRAFT IMPLEMENTATION CONVENTION

001 • CONTROL SEGMENTS
GS • FUNCTIONAL GROUP HEADER

824 APPLICATION ADVICE
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	Implementation Note: <i>Assigned by translation software.</i>		
Mandatory	GS07	455	Responsible Agency Code M ID 1/2 Code used in conjunction with Data Element 480 to identify the issuer of the standard. X Accredited Standards Committee X12 Code Value Implementation Note: <i>Indicates that an ANSI X12 standard is being transmitted.</i>
Mandatory	GS08	480	Version/Release/Industry ID Code M ID 1/12 Code indicating the version, release, subrelease and industry identifier of the EDI standard being used. Positions 1-3, version number; positions 4-6, release and subrelease level of version; positions 7-12, industry or trade association identifier (optionally assigned by user). 003010 Draft Standards Approved By ASC X12 Through June 1990. Code Value Implementation Note: <i>Code value agreed to by trading partners. See X12 Dictionary for source code list.</i>

Segment: GE Functional Group Trailer

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

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

Comment: 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.

Data Element Summary

	REF. DES.	DATA ELEMENT	NAME	ATTRIBUTES
Mandatory	GE01	97	Number of Transaction Sets Included Total number of transaction sets included in the functional group or interchange (transmission) group terminated by the trailer containing this data element.	M NO 1/6

Implementation Note:

Assigned by translation software.

Mandatory	GE02	28	Group Control Number Assigned number originated and maintained by the sender.	M NO 1/9
-----------	------	----	---	----------

Implementation Note:

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

001 • CONTROL SEGMENTS
IEA • INTERCHANGE CONTROL TRAILER

824 APPLICATION ADVICE
ANSI ASC X12 VERSION/RELEASE 003010D00

Segment: IEA Interchange Control Trailer

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

Data Element Summary

	REF. DES.	DATA ELEMENT	NAME	ATTRIBUTES		
Mandatory	IEA01	I16	Number of Included Functional Groups A count of the number of functional groups included in a transmission.	M	N0	1/5
Implementation Note: Assigned by translation software.						
Mandatory	IEA02	I12	Interchange Control Number This number uniquely identifies the interchange data to the sender. It is assigned by the sender. Together with the sender ID it uniquely identifies the interchange data to the receiver. It is suggested that the sender, receiver, and all third parties be able to maintain an audit trail of interchanges using this number.	M	N0	9/9

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

3.3 EXAMPLE OF CONVENTION USE

EXAMPLE - APPLICATION ADVICE TRANSACTION SET (824)

ASC X12 EDI FORMAT

ST*824*ABC001 N/L

BGN* 00*A1001*930115 N/L

N1*FR**33*1B712 N/L

N1*TO**10*N00019 N/L

REF*65*A1234 N/L

PER*IC*JOHN JONES*TE*7032944260 N/L

OTI*TR*TN*A123*****836 N/L

DTM*097*930126 N/L

TED*007*RFQ NUMBER MISSING*****
N0001992Q3010 N/L

SE*10*ABC001 N/L

DEFINITION

THIS IS AN 824 APPLICATION ADVICE WITH A CONTROL NUMBER OF ABC001.

THIS IS AN ORIGINAL APPLICATION ADVICE WHOSE REFERENCE NUMBER IS A1001. IT WAS PREPARED ON JANUARY 15, 1993.

THE TRANSACTION IS FROM A VENDOR WHOSE CAGE CODE IS 1B712.

THE TRANSACTION IS TO A GOVERNMENT ACTIVITY WHOSE DODAAC IS N00019.

THE UNIQUE TRACKING NUMBER OF THE ORIGINAL TRANSACTION SET IS A1234.

THE VENDOR'S POINT OF CONTACT IS JOHN JONES WHOSE TELEPHONE NUMBER IS 703--294-4260.

THE ORIGINAL TRANSACTION SET IS REJECTED. IT HAS A TRANSACTION REFERENCE NUMBER OF A1234 AND IT IS AN 836 CONTRACT AWARD.

THE 836 CONTRACT AWARD WAS CREATED ON JANUARY 26, 1993.

SPECIFIES THE RFQ NUMBER IS MISSING AND PROVIDES THE NUMBER IN TED08.

THE TRANSACTION SET HAS 10 SEGMENTS AND THE CONTROL NUMBER IS ABC001.

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

3.4 DoD CONVENTION

824 Application Advice

This standard provides the format and establishes the data contents of the Application Advice Transaction Set (824) within the context of an Electronic Data Interchange (EDI) environment. This transaction set provides the ability to report the results of an application system's data content edits of transaction sets. The results of editing transaction sets can be reported at the functional group and transaction set level, in either coded or free-form format. It is designed to accommodate the business need of reporting the acceptance, rejection or acceptance with change of any transaction set. The Application Advice should not be used in place of a transaction set designed as a specific response to another transaction set (e.g., purchase order acknowledgement sent in response to a purchase order).

Table 1

PAGE #	POS. #	SEG. ID	NAME	REQ. DES.	MAX USE	LOOP REPEAT
2	010	ST	Transaction Set Header	M	1	
3	020	BGN	Beginning Segment	M	1	
LOOP ID - N1						2
4	030	N1	Name	O	1	
5	040	N2	Additional Name Information	O	2	
6	050	N3	Address Information	O	2	
7	060	N4	Geographic Location	O	1	
8	070	REF	Reference Numbers	O	12	
9	080	PER	Administrative Communications Contact	O	3	

Table 2

PAGE #	POS. #	SEG. ID	NAME	REQ. DES.	MAX USE	LOOP REPEAT
LOOP ID - OTI						10000
10	010	OTI	Original Transaction Identification	M	1	
12	020	REF	Reference Numbers	O	12	
13	030	DTM	Date/Time Reference	O	2	
N/U	040	PER	Administrative Communications Contact	O	3	
N/U	050	AMT	Monetary Amount	O	10	
N/U	060	QTY	Quantity	O	10	
LOOP ID - TED						10000
14	070	TED	Technical Error Description	O	1	
15	080	NTE	Note/Special Instruction	O	100	
16	090	SE	Transaction Set Trailer	M	1	

Mandatory	Segment: ST Transaction Set Header
	Level: Header
	Loop: _____
	Usage: Mandatory
	Max Use: 1
	Purpose: To indicate the start of a transaction set and to assign a control number
	Comment: 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
Mandatory	ST01 143	Transaction Set Identifier Code	M ID 3/3
		Code uniquely identifying a Transaction Set.	
		824 X12.44 Application Advice	
Mandatory	ST02 329	Transaction Set Control Number	M AN 4/9
		Identifying control number assigned by the originator for a transaction set.	

824 - APPLICATION ADVICE
BGN - BEGINNING SEGMENT

ANSI ASC X12 VERSION/RELEASE 003010DOD

Segment: **BGN** Beginning Segment
Level: Header
Loop: ____
Usage: Mandatory
Max Use: 1
Purpose: To indicate the beginning of a transaction set.
Syntax: If BGN05 is used, BGN04 is required.
Comments: 1. BGN02 is the Transaction Set Reference Number.
2. BGN03 is the Transaction Set Date.
3. BGN04 is the Transaction Set Time.
4. BGN05 is the transaction set time qualifier.

Data Element Summary

	REF. DES.	DATA ELEMENT	NAME	ATTRIBUTES
Mandatory	BGN01	353	Transaction Set Purpose Code Code identifying purpose of transaction set. 00 Original 01 Cancellation 04 Change 12 Not Processed	M ID 2/2
Mandatory	BGN02	127	Reference Number Reference number or identification number as defined for a particular Transaction Set, or as specified by the Reference Number Qualifier.	M AN 1/30
Mandatory	BGN03	373	Date Date (YYMMDD).	M DT 6/6
Conditional	BGN04	337	Time Time expressed in 24-hour clock time (HHMM, time range: 0000 though 2359).	C TM 4/4
Implementation Note: Use HHMM.				
Not Used	BGN05	623	Time Code	O ID 2/2

Optional

Segment: N1 Name
Level: Header
Loop: N1 **Repeat:** 2
Usage: Optional
Max Use: 1
Purpose: To identify a party by type of organization, name and code
Syntax: 1. At least one of N102 or N103 must be present.
 2. If either N103 or N104 is present, then the other is required.
Comment: 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.

Implementation Notes:

1. In most instances, N101, N103, and N104 are to be used in lieu of using the N1 through N4 segments.
2. This segment is required if the 824 is in response to a non-public transaction. A non-public transaction is any transaction addressed to a registered vendor or a DoD buying activity. A public transaction is either an 840 (RFQ) or 836 (Contract Award) addressed to a participating VAN, not a registered vendor directly.

Data Element Summary

	REF. DES.	DATA ELEMENT	NAME	ATTRIBUTES
Mandatory	N101	98	Entity Identifier Code Code identifying an organizational entity or a physical location. FR Message From TO Message To	M ID 2/2
Conditional	N102	93	Name Free-form name.	C AN 1/35
Conditional	N103	66	Identification Code Qualifier Code designating the system/method of code structure used for Identification Code (67).	C ID 1/2
			Implementation Notes: 1. When the transaction is sent to the Department of Defense, use code 10. 2. If the 824 is from a registered vendor, the vendor's permanent or temporary CAGE code must be provided here as listed in the vendor's most recent registration confirmation (in the 838C at N103/N104, Table 1, page 20 of the conventions). Use code "33" for a permanent CAGE code or use code "ZZ" for a temporary CAGE code assigned in the 838C. 10 Department of Defense Activity Address Code (DODAAC) 33 Commercial and Government Entity (CAGE) ZZ Mutually Defined	
Conditional	N104	67	Identification Code Code identifying a party.	C ID 2/17

824 - APPLICATION ADVICE
N2 - ADDITIONAL NAME INFORMATION

ANSI ASC X12 VERSION/RELEASE 003010DOD

Optional	Segment: N2 Additional Name Information
	Level: Header
	Loop: N1
	Usage: Optional
	Max Use: 2
	Purpose: To specify additional names or those longer than 35 characters in length

Data Element Summary

	REF. DES.	DATA ELEMENT	NAME	ATTRIBUTES
Mandatory	N201	93	Name Free-form name.	M AN 1/35
Optional	N202	93	Name Free-form name.	O AN 1/35

Optional Segment: **N3 Address Information**
 Level: Header
 Loop: N1
 Usage: Optional
 Max Use. 1
 Purpose: To specify the location of the named party

Data Element Summary

	REF. DES.	DATA ELEMENT	NAME	ATTRIBUTES		
Mandatory	N301	166	Address Information Address information	M	AN	1/35
Optional	N302	166	Address Information Address information	O	AN	1/35

824 - APPLICATION ADVICE
N4 - GEOGRAPHIC LOCATION

ANSI ASC X12 VERSION/RELEASE 003010DOD

Optional

Segment: N4 Geographic Location

Level: Header

Loop: N1

Usage: Optional

Max Use: 1

Purpose: To specify the geographic place of the named party

Syntax: 1. At least one of N401 or N405 must be present.
2. If N401 is present, then N402 is required.
3. If either N405 or N406 is present, then the other is required.

Comments: 1. A combination of either N401 through N404 (or N405 and N406) may be adequate to specify a location.
2. N402 is required only if city name (N401) is in the USA or Canada.

Data Element Summary

	REF. DES.	DATA ELEMENT	NAME	ATTRIBUTES		
Conditional	N401	19	City Name Free-form text for city name.	C	AN	2/19
Conditional	N402	156	State or Province Code Code (Standard State/Province) defined by appropriate governmental agencies.	C	ID	2/2
Optional	N403	116	Postal Code Code defining international postal zone code excluding punctuation and blanks (zip code for United States).	O	ID	4/9
Implementation Note: Use only when the "party's" address has no zip code but may have another type of postal code (e.g., in a foreign country).						
Optional	N404	26	Country Code Code identifying the country.	O	ID	2/2
Implementation Note: A translation table will be required to convert those standard codes used by ANSI to those used by the DoD, as contained in DoD Manual 5000.12-M.						
Not Used	N405	309	Location Qualifier	O	ID	1/2
Not Used	N406	310	Location Identifier	C	AN	1/25

Required	Segment: REF Reference Numbers					
	Level: Header					
	Loop: N1					
	Usage: Optional					
	Max Use: 12					
	Purpose: To specify identifying numbers.					
	Syntax: Either REF02 or REF03 is required.					
	Implementation Note:					
	At least one iteration of this segment is required in order to carry the Unique Tracking Number (UTN) for the original transaction set.					
Data Element Summary						
Mandatory	REF. DES.	DATA ELEMENT	NAME	ATTRIBUTES		
	REF01	128	Reference Number Qualifier	M	ID	2/2
	Code qualifying the Reference Number.					
Conditional	Implementation Note:					
	Use code "65" for the Unique Tracking Number (UTN).					
	65 Total Order Cycle Number					
Conditional	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.					
Not Used	REF03	352	Description	C	AN	1/80

824 - APPLICATION ADVICE
PER - ADMINISTRATIVE COMMUNICATIONS CONTACT

ANSI ASC X12 VERSION/RELEASE 003010DOD

Optional

Segment: PER Administrative Communications Contact

Level: Header

Loop: N1

Usage: Optional

Max Use: 3

Purpose: To identify a person or office to whom administrative communications should be directed

Syntax: If PER03 is present, then PER04 is required.

Data Element Summary

	REF. DES.	DATA ELEMENT	NAME	ATTRIBUTES
Mandatory	PER01	366	Contact Function Code Code identifying the major duty or responsibility of the person or group named. IC Information Contact	M ID 2/2
Optional	PER02	93	Name Free-form name.	O AN 1/35
Optional	PER03	365	Communication Number Qualifier Code identifying the type of communication number.	O ID 2/2
Implementation Note: Use any code, although code EM is preferred.				
EM Electronic Mail				
FX Facsimile				
TE Telephone				
Conditional	PER04	364	Communication Number Complete communications number including country or area code when applicable.	C AN 7/21
Implementation Note: If the communications number is greater than 21 characters, repeat the PER segment to provide the remaining characters.				

Mandatory

Segment: OTI Original Transaction Identification

Level: Detail

Loop: OTI **Repeat:** 10000

Usage: Mandatory

Max Use: 1

Purpose: To identify the edited transaction set, the level at which the results of the edit are reported, and to indicate the accepted, rejected or accepted with change edit result.

Syntax: If OTI09 is present, the OTI08 is required.

Comments: 1. OTI02 contains the qualifier identifying the business transaction from the original business application, and OTI03 will contain the original business application identification.
2. If used, OTI04 through OTI08 will contain values from the original electronic functional group generated by the sender.
3. If used, OTI09 through OTI10 will contain values from the original electronic transaction set generated by the sender.
4. If OTI11 is present, it will contain the Version/Release under which the original electronic transaction was translated by the receiver.

Data Element Summary

Mandatory

REF. DES.	DATA ELEMENT	NAME	ATTRIBUTES
OTI01	110	Application Acknowledgment Code Code indicating the application system edit results of the business data.	M ID 1/2
		TA Transaction Set Accept	
		TE Transaction Set Accept with Error	
		TR Transaction Set Reject	

Mandatory

OTI02	128	Reference Number Qualifier Code qualifying the Reference Number.	M ID 2/2
-------	-----	--	----------

Implementation Notes:

1. Use code "DX" to qualify an 840 transaction set reference number.
2. Use code "IV" to qualify an 810 transaction set reference number.
3. Use code "ME" to qualify an 864 transaction set reference number.
4. Use code "PR" to qualify an 843 transaction set reference number.
5. Use code "SI" to qualify an 856 transaction set reference number.
6. Use code "TN" to qualify an 824 836, 838, 841, 850, 855, 860, and 865 transaction set reference number.

DX Department/Agency Number

IV Seller's Invoice Number

ME Message Address or ID

PR Price Quote Number

SI Shipper's Identifying Number for Shipment (SID)

TN Transaction Reference Number

DEPARTMENT OF DEFENSE
DRAFT IMPLEMENTATION CONVENTION

824 - APPLICATION ADVICE
OTI - ORIGINAL TRANSACTION IDENTIFICATION

ANSI ASC X12 VERSION/RELEASE 003010DOD

Mandatory	OTI03	127	Reference Number Reference number or identification number as defined for a particular Transaction Set, or as specified by the Reference Number Qualifier.	M	AN	1/30
Implementation Notes: 1. When the OTI02 qualifier is code "DX", transmit the RFQ number in BQT02 of the 840 transaction set. 2. When the OTI02 qualifier is code "IV", transmit the invoice number in BIG02 of the 810 transaction set. 3. When the OTI02 qualifier is code "ME", transmit the number in MIT01 of the 864 transaction set. 4. When the OTI02 qualifier is code "PR", transmit the price quote number in REF02 of the 843 transaction set. 5. When the OTI02 qualifier is code "SI", transmit the number in BSN02 of the 856 transaction set. 6. When the OTI02 qualifier is code "TN", transmit the number in BGN02 of the 824 transaction set; the number in BTP02 of either the 838(R) or 838(C) transaction sets; the number in REF02 of the 841 transaction set; or the number in ST02 of the 836, 850, 855, 860, or 865 transaction sets. When transmitting the number in ST02, identify the applicable transaction set in OTI10.						
Optional	OTI04	142	Application Sender's Code Code identifying party sending transmission. Codes agreed to by trading partners.	O	AN	2/12
Optional	OTI05	124	Application Receiver's Code Code identifying party receiving transmission. Codes agreed to by trading partners.	O	AN	2/12
Optional	OTI06	29	Group Date Date sender generated a functional group of transaction sets.	O	DT	6/6
Optional	OTI07	30	Group Time Time (HHMM) when the sender generated a functional group of transaction sets (local time at sender's location).	O	TM	4/4
Conditional	OTI08	28	Group Control Number Assigned number originated and maintained by the sender.	C	NO	1/9
Optional	OTI09	329	Transaction Set Control Number Identifying control number assigned by the originator for a transaction set.	O	AN	4/9
Optional	OTI10	143	Transaction Set Identifier Code Code uniquely identifying a Transaction Set.	O	ID	3/3
Implementation Note: Use only to identify an 836, 850, 855, 860, or 865 transaction set. 836 X12.54 Contract Award 850 X12.1 Purchase Order 855 X12.9 Purchase Order Acknowledgment 860 X12.15 Purchase Order Change 865 X12.16 Purchase Order Change Acknowledgment						
Optional	OTI11	480	Version / Release / Industry Identifier Code Code indicating the version, release, subrelease and industry identifier of the EDI standard being used. Positions 1-3, version number; positions 4-6, release and subrelease level of version; positions 7-12, industry or trade association identifier (optionally assigned by user).	O	ID	1/12

Optional	Segment: REF Reference Numbers				
	Level: Detail				
	Loop: OTI				
	Usage: Optional				
	Max Use: 12				
Mandatory	Purpose: To specify identifying numbers.				
	Syntax: Either REF02 or REF03 is required.				
	Implementation Note:				
	<i>Segment used only when necessary to transmit additional number(s) to clarify the transmission.</i>				
	Data Element Summary				
Mandatory	REF.	DATA	NAME	ATTRIBUTES	
	DES.	ELEMENT			
	REF01	128	Reference Number Qualifier	M	ID 2/2
			Code qualifying the Reference Number.		
	Implementation Notes:				
Conditional	1. Use applicable code to supplement code carried in OTI02.				
	2. Code 65 will be used for the Unique Tracking Number.				
	65 Total Order Cycle Number				
	CT Contract Number				
	IV Seller's Invoice Number				
Conditional	ME Message Address or ID				
	PO Purchase Order Number				
	PR Price Quote Number				
	SI Shipper's Identifying Number for Shipment (SID)				
	TN Transaction Reference Number				
Conditional	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.		
	Implementation Note:				
	<i>Use a number to help identify the transaction in question.</i>				
Conditional	REF03	352	Description	C	AN 1/80
			A free-form description to clarify the related data elements and their content.		

824 • APPLICATION ADVICE
DTM • DATE/TIME REFERENCE

ANSI ASC X12 VERSION/RELEASE 003010DOD

Optional

Segment: DTM Date/Time Reference

Level: Detail

Loop: OTI

Usage: Optional

Max Use: 2

Purpose: To specify pertinent dates and times

Syntax: At least one of DTM02 or DTM03 must be present.

Data Element Summary

	REF. DES.	DATA ELEMENT	NAME	ATTRIBUTES		
Mandatory	DTM01	374	Date/Time Qualifier Code specifying type of date or time, or both date and time. 097 Transaction Creation	M	ID	3/3
Conditional	DTM02	373	Date Date (YYMMDD).	C	DT	6/6
Implementation Note: Use the transaction creation date from the transaction in question when one exists. For example, the date contained in data element BTP03 in the 838 transaction set; the date contained in data element BQR03 in the 843 transaction set; the date contained in DTM02 in the 824 and 864 transaction sets; or BSN03 in the 856 transaction set.						
Not Used	DTM03	337	Time	C	TM	4/4
Not Used	DTM04	623	Time Code	O	ID	2/2

Optional	Segment: TED Technical Error Description				
	Level: Detail				
	Loop: TED Repeat: 10000				
	Usage: Optional				
	Max Use: 1				
	Purpose: To identify the error and, if feasible, the erroneous segment, or data element, or both.				
Comment: If used, TED02 will contain a generic description of the data in error (e.g., Part Number, Date, Reference Number, etc.).					
Data Element Summary					
Mandatory	REF. DES.	DATA ELEMENT	NAME	ATTRIBUTES	
	TED01	647	Application Error Condition Code Code indicating application error condition.	M ID	1/3
Implementation Notes:					
1. Use any applicable code, although codes 006 Duplicate, 007 Missing Data, and 010 Total Out of Balance are preferred.					
2. Use code ZZZ to cover a situation not explained by a specific code.					
Optional	TED02	3	Free Form Message Free-form text.	O AN	1/60
Implementation Note:					
Use for explanation particularly when TED01 is code ZZZ.					
Not Used	TED03	721	Segment ID Code	O ID	2/3
Not Used	TED04	719	Segment Position in Transaction Set	O NO	1/6
Not Used	TED05	722	Element Position in Segment	O NO	1/2
Not Used	TED06	725	Data Element Reference Number	O NO	1/4
Optional	TED07	724	Copy of Bad Data Element This is a copy of the data element in error.	O AN	1/99
Optional	TED08	961	Data Element New Content New data which has replaced erroneous data.	O AN	1/99
Implementation Note:					
Use only when new (correct) data is known.					

824 - APPLICATION ADVICE
NTE - NOTE/SPECIAL INSTRUCTION

ANSI ASC X12 VERSION/RELEASE 003010DOD

Optional	Segment: NTE Note/Special Instruction
	Level: Detail
	Loop: TED
	Usage: Optional
	Max Use: 100
	Purpose: To transmit information in a free-form format, if necessary, for comment or special instruction
	Comment: The NTE segment permits free-form information/data which, under ANSI X12 standard implementations, is not machine processable. The use of the "NTE" segment should therefore be avoided, if at all possible, in an automated environment.

Data Element Summary

	REF. DES.	DATA ELEMENT	NAME	ATTRIBUTES
Optional	NTE01	363	Note Reference Code Code identifying the functional area or purpose for which the note applies.	O ID 3/3
			GEN Entire Transaction Set	
Mandatory	NTE02	3	Free Form Message Free-form text.	M AN 1/60

Implementation Note:

Use to provide details, e.g., what went wrong and what it will take to fix the problem.

Mandatory	Segment: SE Transaction Set Traller
	Level: Detail
	Loop: _____
	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).
Comment: SE is the last segment of each transaction set.	

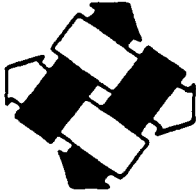
Data Element Summary

	REF. DES.	DATA ELEMENT	NAME	ATTRIBUTES
Mandatory	SE01	96	Number of Included Segments Total number of segments included in a transaction set including ST and SE segments.	M NO 1/6
Mandatory	SE02	329	Transaction Set Control Number Identifying control number assigned by the originator for a transaction set.	M AN 4/9

Implementation Note:
This is the same number as the one in ST02.

4.0 ASC X 12 FORMS

In this chapter, applicable ASC X12 forms are presented.



VIII - FORMS, FORMS, FORMS

ASC X12 Work Request Form

ASC X12 New Project Proposal Form

ASC X12 New Transaction Set Development Form

Form for New or Revised Appendix A Code Source Reference

Document Preparation for Interpretations, Guidelines and Control Standards

Sample Transmittal Form

ASC X12 Ballot Comment Response Letter Format

ASC X12 Standards Order Form

Rev. 5/10/90

DATE SUBMITTED _____

DM NUMBER _____

(Secretariat Only)

ASC X12

WORK REQUEST FORM

ALL REQUESTS MUST BE TYPED or printed legibly in black ink. Complete both sides.

1. TO USE THIS FORM FOR SUPPORTING DATA MAINTENANCE FOR A NEW DRAFT STANDARD OR X12 INTERPRETATION, list all requirement on ONE form. Use attachments as necessary. List first all new segments, then all new data elements/codes/code sources. Then list revisions to existing segments and data elements/codes/code sources. Then list any others (e.g., X12.5, X12.6).
2. TO USE THIS FORM TO REQUEST A CHANGE TO AN EXISTING STANDARD, use a separate Work Request Form to list all changes for one transaction set, one segment, one control structure, or one data element. All sections must be completed. Attachments may be used for continuation and should be numbered.
3. TO USE THIS FORM TO REQUEST A PROPOSED NEW X12 PROJECT, complete Section A. Provide a purpose/scope and describe any new features involved in Section B. Provide a description of the business need and justification for the new project in Section C/Part II. The Work Request will be forwarded to an appropriate X12 subcommittee for analysis and preparation of a project proposal.

Circle One: (1) New Standard Supporting Data Maintenance (use attachments)
(2) Existing Standard Maintenance Request (see Section D)
(3) Request for New X12 Project

Acronyms/abbreviations cannot be added to the standards. Industry-specific terms must be clearly explained. Provide Appendix A code source references for all externally published code lists cited. Incomplete forms or those with inadequate support for the change requested will be returned to the submitter.

A. SUBMITTER INFORMATION

Submitter: Name _____
Company _____
Address _____
Address/ZIP _____
Phone _____

Indicate the X12 subcommittee or task group whose position is represented here.

I declare that this represents the official position of X12 WORK GROUP: _____

established at the meeting dated _____.

B. PROPOSED WORK: List the specific changes to the standards being requested. Give the names and associated identifiers of the standards, segments, data elements and codes affected.

Page Two

C. REASON FOR CHANGE:

Part I: List the version/release of the standard you are using or using as a reference. Name the transaction set that is being/will be used that dictates the requested change. List affected segments and data elements, or other standards. Provide only reference numbers/IDs.

Reference Source Version 2/Release ____
Transaction Set Used _____
Segment Affected _____
Data Element Affected _____
Other Standard _____

Part II: Explain why you need the proposed change. Provide a complete scenario that tells what the business function, operation, or problem is that will be satisfied by a change to the standard. The X12J Technical Assessment Subcommittee requires enough information in this Part II to be able to propose an alternate solution if necessary.

D. RAMIFICATIONS: If you circled (2) on Page 1, complete this section. To ensure that all ramifications of your proposed change are recorded and that your request is complete, circle below all sections of the standards affected by the proposed change.

TRANSACTION SET	Name	Purpose/Scope	Table Note/Comment
	Segment Position	Require. Des.	Max. Use
	Loop Repeat	Loop Structure	Add Segment
	Delete Segment		

SEGMENT	Identifier	Name	Definition
	Add DE	Delete DE	Position in Segment
	Require. Des.	Syntax Note	Semantic Note
	Comment		

DATA ELEMENT	Name	Description	Type
	Min/Max		

CODE	Add code	Delete Code	Revise Code
-------------	----------	-------------	-------------

OTHER (e.g., X12.5, X12.6):

ERRORS NOTED IN THE STANDARD (Give page no. and other identification):

PP No. _____
(Secretariat Only)

ASC X12
NEW PROJECT PROPOSAL FORM

PROCEDURE: Only X12 subcommittees may use this form to register new development activities as X12 project proposals (PPs). Complete all pages. PPs approved by the X12 Procedures Review Board will be registered and assigned a PP number by DISA, and a Transmittal Form will be issued.

Date and complete the form below. Type or print legibly in black ink and number all attachment pages consecutively. Submit to DISA prior to an ASC X12 meeting, or to X12J Technical Assessment Subcommittee during the subcommittee's agenda period at an ASC X12 meeting.

Date Submitted: _____
Date Approved by Subcommittee: _____

Subcommittee Name: _____
Task Group Name/No.: _____

Joint Development Subcommittee (If any): _____

Circle one: (a) Transaction Set (b) Guideline (c) Other

Project Working Title: _____

Official Delegate(s) for This Project To Be Named on Transmittal Form:

Name _____ Name _____

Company _____ Company _____

Address _____ Address _____

Address/ZIP _____ Address/ZIP _____

Telephone _____ Telephone _____

A. PURPOSE AND SCOPE FOR THE PROPOSED WORK: Provide a well-defined purpose/scope for the proposed work. See X12 Design Rules and Guidelines for requirements.

B. BACKGROUND: Provide details that will be helpful in reviewing the proposal. Who are the expected users? How will the standard be used? What business function(s) does it serve?. If the proposed standard overlaps the functionality of an existing standard or one in development, provide justification. If the proposal is not for a new standard or guideline, describe the project in detail. (Use attachments if necessary.)

C. OTHER STANDARDS INVOLVED: If applicable, identify any other business information standards that are similar/related to the proposal, and name standards developers (e.g., ANSI Accredited Standards Committees) whose activities may be involved or affected.

D. EXPECTED CONTENT/GENERAL DESCRIPTION: (OPTIONAL) Submitter may attach a preliminary draft of the proposed standard or other supporting documentation. Discuss new segments, data elements, control structures, and changes to X12.5 or X12.6 that are required or anticipated. (Use attachments.)

4/1/90

FORM FOR NEW OR REVISED APPENDIX A CODE SOURCE REFERENCE

INSTRUCTIONS: Complete this form whenever a new data element or data element code is requested to be added which references a code list published by an external (non-X12) organization. Use one form for each new reference. This form may be used to revise current references; fill out the appropriate areas below.

CIRCLE ONE, COMPLETE AS APPROPRIATE:

(1) NEW REFERENCE

(2) REVISED REFERENCE, Current reference number/name _____

REFERENCE TITLE: If there is only one source for codes for the data element, the title should be the same as the data element name. If there are multiple codes referencing external code sources for the same data element, title should approximate the code definition.

REFERENCE TITLE:

DATA ELEMENTS USED IN: Give the data element reference number and name which directs the user to this Appendix A code source reference. Give the code ID (if assigned) if this is for a specific code of the data element.

USED IN: DE No. _____, Code ID _____

SOURCE: Provide the name of the publication which contains the codes referenced.

PUBLISHED IN:

AVAILABLE FROM: Give the publisher, or other contact, from whom the user can obtain the document.

Name/Attn of _____
Company _____
Address _____
Address _____
Address/ZIP _____

ABSTRACT: Briefly describe the publication, its purpose, and indicate what codes it contains.

ABSTRACT:

Rev. 4/1/80

DOCUMENT PREPARATION FOR INTERPRETATIONS, GUIDELINES AND CONTROL STANDARDS

These instructions are provided to assist developers of interpretations, guidelines and control structure which are not transaction sets (for transaction sets use the New Transaction Set Development Form).

GENERAL: DISA provides title page and front matter for publications and copyedits the document according to DISA house style.

REVISIONS: If the document is a revision of a previously published interpretation, guideline or standard, provide a summary of the changes to the original that are contained in the document.

I INTERPRETATIONS

A formal interpretation of an X12TM Standard is considered part of the body of standards when it is approved for publication. The interpretation draft should state the issue presented by the requestor, state the proposed interpretation, and show as attachments any Work Requests that may be necessary to effect the interpretation within the subject standard. The draft interpretation is processed like any other subcommittee document.

II GUIDELINES

For publication purposes, guidelines are treated like a journal article. Basic requirements are given below.

ABSTRACT: This is a precise summary of the Purpose/Scope (see below), and may be identical to it if that is brief (two paragraphs); otherwise summarize the purpose/scope. It should contain enough information about the document to enable a reader determine what the guideline is intended to accomplish within an EDI environment.

PURPOSE AND SCOPE: This statement must indicate purpose of the guideline, e.g., the business function or operation addressed. Scope and any specific limitations of scope should be defined.

BODY OF TEXT: This may be a number of subsections logically organized. Provide sections for foreword, introduction, definition of terms and concepts, references and related standards, methodology, specifications, requirements, discussion, and conclusions, as appropriate to the subject.

ART AND GRAPHICS: Graphics or artwork necessary to illustrate the document are encouraged. Provide camera-ready copy if these are not already prepared and delivered on a WP diskette to DISA.

FOREWORD, FOOTNOTES, APPENDICES: These may be used for purposes of clarity, illustration, or general information, not as "part of the guideline." A statement indicating the material is for information purposes only and not part of the guideline shall appear at the beginning of a foreword or appendix.

III CONTROL STRUCTURES AND OTHER STANDARDS

For publication purposes, these documents are treated like guidelines (see Section II above). The requirements are the same, with the addition of the following:

NEW SEGMENTS AND DATA ELEMENTS: These may be defined within the text; however, since they represent changes to X12.22 and X12.3, they should be specified on a Work Request Form attached to the draft.

RELATED X12TM STANDARDS AND OTHER REFERENCES: These shall be identified in a section within the text.

Page Two

FORMAT: "This Draft Standard for Trial Use contains the format and establishes the data contents of the _____ Transaction Set (____) for use within the context of an Electronic Data Interchange (EDI) environment. The transaction set (can be used to...)"

C. PURPOSE AND SCOPE This statement must indicate the full range of capabilities of the transaction set, and who the senders/receivers are. Explain the business function or operation that is addressed. Follow ASC X12 Design Rules and Guidelines and use this format:

FORMAT: "This standard provides the format and establishes the data contents of the _____ Transaction Set within the context of an Electronic Data Interchange (EDI) environment. This transaction set (can be used to...)"

D. TRANSACTION SET TABLE(S) For each table provide the following information. FORMAT:

TABLE X

POSITION NO.	SEGMENT ID	TITLE	REQ. DES.	MAX. USE.	LOOP COUNT	REPEAT	NOTE REF.
010	ST	Transaction Set Header	M	1			Note 1
020	BB	Beginning Segment For	M	1			Comment 1
etc.							

Note 1: This is a note. NOTES are part of the standard (numbered).

Comment A: This is a comment. COMMENTS are not part of the standard (lettered).

E. APPENDIX EXAMPLES Examples are used to test the merit of the proposed transaction and to explain it to users. At least one example is mandatory. No recognizable proper names may be used in any example.

FIGURE 1: (Optional) Use a sample paper document using mock data. If used, data must be accurately mapped to Figure 2. Original graphics must be attached (8-1/2x11") so they can be copied.

FIGURE 2 (or EXAMPLE): Title the figure and provide a Business Scenario to explain to the reader what is going on in the example. Add the note: "In this example the asterisk (*) represents the data element separator and the N/L characters represent the segment terminator." Present EDI transmission data and its meaning in two columns, side-by-side. ZZ or ZZZ codes are discouraged, since their usefulness in an explanatory example is nil. FORMAT:

BUSINESS SCENARIO: In this transaction set the sender is XYZ Retail Center and the receiver is their supplier, Fantastic Products Manufacturing, Inc....etc.

EDI TRANSMISSION DATA

(TRANSACTION SET PURPOSE) DATA

ST*8XX*0005 N/L
No. 0005
BB*01*79800* N/L
79800
etc.

Begin Transaction Set 8XX; Control
Original Transmission; Ref. No.

Rev. 5/10/80

DM Number _____
(Secretariat Only)

Document No. _____
(Developer Obtains from DISA)

ASC X12 NEW TRANSACTION SET DEVELOPMENT FORM

INSTRUCTIONS: Use this form to submit a draft transaction set for review by X12J Technical Assessment until it is text processed by DISA. Use a new Transaction Set Development Form whenever revisions are proposed and a text file has not yet been prepared by DISA.

ATTACHMENTS: Attach all pages; use this form as the first. Follow these instructions for preparing materials.

The submitter must obtain a document number assignment from DISA. Post it to this form (above).

Attach a List of Revisions if the draft was previously reviewed by X12J or if this is a revised/redesigned transaction set standard requiring X12 ballot.

Use ONE Work Request Form to list all supporting data maintenance for the transaction set and attach it to this form. Propose new or revised codes for DE 143 and DE 479 at a minimum, if required.

A Transmittal Form must accompany this document when it is submitted to DISA for distribution.

Use the most recent X12™ Standards Development Workbook to check your document for accuracy.

A. SUBMITTER INFORMATION

Submitter: Name _____
Company _____
Address _____
Address/ZIP _____
Phone _____

Indicate the X12 subcommittee or task group whose position is represented here.

I declare that this represents the official position of X12 WORK GROUP: _____
established at the meeting dated _____.

B. ABSTRACT The Abstract is registered with the American National Standards Institute. It is a precise summary of the Purpose/Scope (see Section C below). It may be identical to the Purpose/Scope if that is brief (two paragraphs), otherwise summarize the purpose/scope. It should contain enough information about the standard to enable a potential user determine what equivalent paper transaction it represents or what the standard is intended to do. Follow the format on page two.

SAMPLE TRANSMITTAL FORM

Initialized

KEY DATE: February 15, 1990

DELEGATE'S NAME
RESPONSIBLE SUBCOMMITTEE/TG#

John Doe
ASC X12Q XX Subcommittee/TG4

TRANSACTION SET/GUIDELINE TITLE

X12.XX ABC/XYZ TRANSACTION SET (8XX)

BALLOT Document No.
Current Document No.
Previous Document No.
Project Proposal No.
Associated WR/DM No.

ASC X12Q/90-051
ASC X12Q/90-004
PP-999
DM 012-190

PROJECT PROPOSAL

PP Review by X12J

(DATE) 2/7/90

PRB Approves PP

(DATE) 2/9/90

DEVELOPMENT PHASE: Project proposal approval through approval for X12 vote.

Document Submitted for DISA Text Processing
Subcommittee Approves Draft for Review by X12J, Tech Assessment
X12J Tech Assessment Review
PRB Approves Document for X12 Vote

(DATE) _____
(DATE) _____
(DATE) _____
(DATE) _____

ORIGINAL BALLOT DATA (DISA):

Ballot Closed Date
Tally/Comments Sent to Chair/Delegates
Tally Stats (Number and Percent)
_____ Ballots Mailed (100%)
_____ Ballots Returned (____%)
_____ Approved (____%)
_____ App w/Comment (____%)
_____ Disapproved (____%)
_____ Abstained (____%)

(DATE) _____
(DATE) _____

Page Two

COMMENT RESOLUTION PHASE: See Sections A, B and C. If the subcommittee at any time decides to reballot the document, PRB approval is required and response letters are not necessary.

A. COMMENT RESPONSE LETTERS: An Open Forum must be scheduled at the next X12 meeting following the ballot closing date. All those who commented receive a comment response letter from the developing subcommittee. DISA records this process and handles the mailing.

Open Forum Date (DATE) _____
Response Letters Mailed Out by DISA (DATE) _____
Rebuttal Period (30 days) Closes (DATE) _____

ADJUSTED BALLOT DATA (DISA):

30-Day Response Review Closed Date (DATE) _____
Tally/Comments Sent to Chair/Delegates (DATE) _____
Tally Stats (Number and Percent)
_____ Ballots Mailed (100%)
_____ Ballots Returned (____%)
_____ Approved (____%)
_____ App w/Comment (____%)
_____ Disapproved (____%)
_____ Abstained (____%)

B. SUBSTANTIVE REVISION: If ballot comments result in substantive revisions to the document, these are reviewed by X12J and processed by DISA. The revised document is submitted to X12 voters for a 30-day review period. DISA records this process/handles mailing. Subcommittees should conduct 30-day reviews for response letters/revised documents concurrently.

Subcommittee Approval of Revisions (DATE) _____
X12J Review of Revisions (DATE) _____
DISA Mails Revised Document (DATE) _____
Substantive Revision 30-Day Review Closes (DATE) _____

ADJUSTED BALLOT DATA (DISA):

30-Day Substantive Change Review Closed Date (DATE) _____
Tally/Comments Sent to Chair/Delegates (DATE) _____
Tally Stats (Number and Percent)
_____ Ballots Mailed (100%)
_____ Ballots Returned (____%)
_____ Approved (____%)
_____ App w/Comment (____%)
_____ Disapproved (____%)
_____ Abstained (____%)

DEPARTMENT OF DEFENSE
DRAFT IMPLEMENTATION CONVENTION

Page Three

C. CONTINUING OBJECTIONS. If there are continuing disapprovals after the 30-day review period, the document/disapprovals/responses/continuing objections are mailed to X12 members who originally cast a ballot, for another 30-day review, to give them an opportunity to change their vote.

Continuing Objections Mailed to Chair/Delegate by DISA
DISA Mails Documents
30-Day Review Closes

(DATE) _____
(DATE) _____
(DATE) _____

FINAL ADJUSTED TALLY (DISA): Whenever any disapprovals are withdrawn, a letter to this effect must be received in writing by DISA.

Final Tally Results Sent to Chair/Delegate
30-Day Review Stats (Adjusted Tally)

(DATE) _____

_____ Ballots Mailed (100%)
_____ Ballots Returned (____%)
_____ Approved (____%)
_____ App w/Comment (____%)
_____ Disapproved (____%)
_____ Abstained (____%)

PRB APPROVAL PHASE: After the comment resolution period, the subcommittee votes to submit the document to the PRB for approval to publish.

Subcommittee Votes to Release to PRB
PRB Approves Publication

(DATE) _____
(DATE) _____

FOR DRAFT STANDARDS FOR TRIAL USE:
VERSION/RELEASE/SUBRELEASE ID CODE ASSIGNED: _____

Page Four

TRANSMITTAL FORM INSTRUCTIONS:

GENERAL: This Transmittal Form is a TURNAROUND DOCUMENT which records the history/current status of a project document. It is used to exchange information between the Secretariat and the committees of X12. Information is cumulative (add on). This form is attached to the document whenever it is issued for distribution (It is mandatory for submitting documents to DISA, X12J Technical Assessment, and the PRB). Document control numbers are still required on each document, and new numbers are required whenever it is revised.

KEY DATE: This is used to identify the latest version of the document (date associated with the current transmittal form update).

DELEGATE: Each subcommittee designates an individual (delegate) from the group responsible for the project. The Secretariat must be informed if the delegate changes.

INITIATION: Primary data is recorded by DISA on the initialized form after the project proposal is approved by the PRB. The subcommittee chair and delegate(s) receive the initialized Transmittal Form from DISA; thereafter, they are responsible for recording the appropriate subcommittee approval dates. The chair/delegate will receive a copy of the updated transmittal form whenever it is revised by DISA.

UPDATING: At each appropriate step, DISA will POST fresh data to the form, ADD the next appropriate blanks to the form, and SEND it to the subcommittee chair/delegate at each status change. The delegate must POST the form with fresh data at each status change for which the subcommittee is responsible and SEND it with the appropriate document to the Secretariat.

01/03

ASC X12 BALLOT COMMENT RESPONSE LETTER FORMAT

GENERAL INFORMATION

AFTER AN X12 BALLOT, THE RESPONSIBLE SUBCOMMITTEE (OR ITS DESIGNATED TASK GROUP) MUST respond in writing to all disapproval votes. The Organization & Procedures manual (OPM) states that you are not required to respond to those members who approved with comment, but typically all commentators are responded to. The OPM states that all comment responses must be coordinated with the Subcommittee Chair.

There are two response letter formats from which to choose: a generic letter which will be sent to all commentators, and a individualized response to each commentator. See instructions below and the attachments.

OPTION 1: GENERIC LETTER (MASTER LETTER) TO ALL COMMENTORS

You may prepare one letter to be sent to all commentators. Every comment received must be reproduced in your letter. For each comment listed, name the commentator (X12 member company name) and the vote recorded for them. Link your response to the comment. If you choose this option, you may group the comments which are similar and respond to them as a group. Every member that disapproved must be responded to.

OPTION 2: INDIVIDUAL LETTER TO EACH COMMENTOR

You may prepare one letter for each commentator. If you choose this option, you need not repeat the original comment provided on the ballot. Follow the usual business letter style and the general instructions below. Every member that disapproved must be responded to.

INSTRUCTIONS

STEP 1: Plan to print the first page of your letter(s) on ASC X12 letterhead. If you don't have letterhead, you can obtain some from the Secretariat or reproduce the sample attached. You may not use personal, corporate, or blank letterhead for your comment response letter(s).

STEP 2: Call the Secretariat for a document control number. This number must appear in the upper right corner of the first page of the letter. If you send an individualized letter to each commentator, the document control number assigned for the first letter will be followed by an "A" (e.g., ASC X12F/TG09/90-120A), the second by a "B" (e.g., ASC X12F/TG09/90-120B), etc.

STEP 3: Choose your letter format option (see General Information above).

STEP 4: Prepare the letter following the outline, below using a typical business letter format.

- a. Provide a contact name (sender's) in the upper right corner box of the letterhead; include phone number.
- b. Print the document control number under the letterhead box.
- c. Print the date under the document control number.
- d. Address the letter to the individual, or for a generic letter include an addressee line and subject line.
- e. Include an introductory paragraph so the issue is properly identified to the addressee.
- f. You may wish to recap the ballot tally (from your Transmittal Form) for the information of the reader.

STEP 4: Forward the letters to the Secretariat, Attention Secretariat Services, with a cover letter requesting distribution of the response letter(s) you have prepared. When the letters have been distributed, the project delegate and subcommittee chair will receive an updated Transmittal Form which has the mailing date and 30-day review period closing date posted.

Attachments: X12 Letterhead Sample
 Sample Master Response Letter
 Sample Individual Letter

ASC X12-ELECTRONIC DATA INTERCHANGE (EDI)

Accredited Standards Committee
operating under the procedures of the
American National Standards Institute

Tim Jonesey
(999) 999-9999

Dan Smithey
(999) 999-9999

Document No

ASC X12C/TG20/90-999
June 25, 1990

TO: X12 Members Who Commented on Modifications to
X12.xx Control Structures

RE: Response to Comments on December Ballot
DMs 205289, 215289, 317289

Thank you for your comments. This ballot involved modifications to X12.xx. Of the 327 ballots mailed, 153 ballots were returned. Of these, 81 approved, 15 approved with comment, 20 disapproved with comment and 37 abstained.

In general, the vote responses were in favor of the modifications. The majority of the comments focused on the impact of these modifications on the presentation of information in the X12.22 Segment Directory. The proposed modifications and the resulting presentation in the segment directory have been reworked in response to these comments. A revised modification to X12.xx was reviewed by Technical Assessment at the June ASC X12 meeting. Modifications to the document have been made which reflect responses to the comments from this ballot, and a revised copy of X12.xx is being distributed to all who voted on this issue, for 30-day review of revisions.

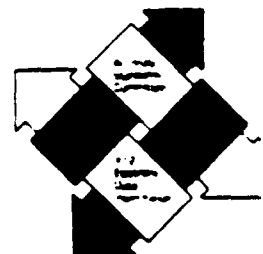
Specific responses to comments follow.

COMMENT: Automobile Corporation

"Add the following note to Paragraph 3.3: NOTE: Communication protocol characters should be excluded from the character set."

RESPONSE:

The cover letter sent out with the voting package explained that the intent was to obtain consensus on the proposed modifications to X12.xx. X12.xx is a difficult standard to amend. We request that ballot responses be considered on the merits of the recommended modifications and not on the standard as a whole. Your comment was outside the scope of the requested modifications.



Page Two

COMMENT: Aircraft Engine Corporation

"Some consideration for Abstract Syntax Notation One (ASN.1) should be allowed.

1. ASN.1 is capable of defining all of the necessary inter-relations needed by X12 transactions.
2. ASN.1 requires less characters to define the same information.
3. ASN.1 is the encoding scheme used by most OSI work."

RESPONSE:

The recommendation to consider usage of ASN.1 encoding reaches far beyond the scope of the modifications requested in this ballot. Activities such as this are best submitted as separate work requests.

COMMENT: Some Software Inc.

"Conditionality of data elements should be left to the discretion of implementation guidelines and agreements. There is much discussion at times as far as whether certain data elements should be mandatory or not; many application systems are incapable of providing certain 'mandatory' information and, as such, filler-type data must be inserted."

RESPONSE:

The issue of data element conditionality as a whole is a much broader subject than was intended to be addressed within the scope of this ballot. This ballot was intended to provide a means for consistent documentation and application of already existing conditional structures. If the commentator believes that the conditional structure should be removed from the standard, the task group recommends that this be submitted as a separate work request.

Etc.

5.0 GLOSSARY

This chapter contains ASC X12 and DoD specific glossaries.

5.1 X12 GLOSSARY

ANSI

American National Standards Institute

ANSI Standard

A document published by ANSI that has been approved through the consensus process of public announcement and review. Each of these standards must have been developed by an ANSI committee and must be revisited by that committee within 5 years for update. See Draft Standard for Trial Use (DSTU).

Area Transaction Set

Identifies a predefined area within a transaction set (header, detail, summary) containing segments and their various attributes.

ASC X12

Accredited Standards Committee, X12 comprises industry members who create EDI standards for submission to ANSI for subsequent approval and dissemination; or for submission to the UN/ECE for approval and submission of UN/EDIFACT standards.

Authentication

A mechanism which allows the receiver of an electronic transmission to verify the sender and the integrity of the content of the transmission through the use of an electronic "key" or algorithm which is shared by the trading partners. This is sometimes referred to as an electronic signature.

Compliance Checking

A checking process that is used to ensure that a transmission complies with ANSI X12 syntax rules.

Conditional (C)

A data element requirement designator which indicates that the presence of a specified data element is dependent on the value or presence of other data elements in the segment. The condition must be stated and must be computer processable.

Control Segment

A Control Segment has the same structure as a Data Segment but is used for transferring control information for grouping data segments. Control Segments are Loop Control Segments (LS/LE), Transaction Set Control Segments (ST/SE), and Functional Group Control Segments (GS/GE), defined in X12.6, and Interchange Control Segments (ISA/IEA/TA1) defined in X12.5.

Data Element

The basic units of information in the EDI standards containing a set of values that represent a singular fact. They may be single-character codes, literal descriptions, or numeric values.

Data Element Length

This is the range, minimum to maximum, of the number of character positions available to represent the value of a data element. A data element may be of variable length with range from minimum to maximum, or it may be of fixed length in which the minimum is equal to the maximum.

Data Element Reference Number

Reference number assigned to each data element as a unique identifier.

Data Element Requirement Designator

A code defining the need for a data element value to appear in the segment if the segment is transmitted. The X12 codes are mandatory (M), optional (O), or conditional (C). DoD may "require" a segment which is optional by X12 standards.

Data Element Separator

A unique character preceding each data element that is used to delimit data elements within a segment. DoD uses "*" as the delimiter.

Data Element Type

A data element may be one of six types: numeric, decimal, identifier, string, date, or time.

Delimiters

The delimiters consist of two levels of separators and a terminator. The delimiters are an integral part of the transferred data stream. Delimiters are specified in the interchange header and may not be used in a data element value elsewhere in the interchange. From highest to lowest level, the separators and terminator are segment terminator and data element separator.

DISA

Data Interchange Standards Association. A nonprofit organization funded by ASC X12 members which serves as the Secretariat for X12.

DSTU

Draft Standard for Trial Use. Represents a document approved for publication by the full X12 committee following membership consensus and subsequent resolution of negative votes. (Final Report of X12 Publications Task Group). The Draft EDI Standard for Trial Use document represents an ASC X12 approved standard for use prior to approval by ANSI. See ANSI Standard.

EDI

Electronic Data Interchange. The computer application to computer application exchange of business information in a standard format.

Electronic Envelope

Electronic information which binds together a set of transmitted documents being sent from one sender to one receiver.

Element Delimiter

A single-character which follows the segment identifier and separates each data element in a segment except the last.

Functional Group

A group of one or more transaction sets bounded by a functional group header segment and a functional group trailer segment.

Functional Group Segments

GS/GE segments identify a specific functional group of documents such as purchase orders.

Industry Conventions

Defines how the ASC X12 standards are used by the specific industry

Industry Guidelines

Defines the EDI environment for using conventions within an industry. It provides assistance on how to implement X12 standards.

Interchange Control Segments

ISA/IEA segments identify a unique interchange being sent from one sender to one receiver (see electronic envelope).

Interchange Control Structure

The interchange header and trailer segments envelop one or more functional groups or interchange-related control segments and perform the following functions: (1) defines the data element separators and the data segment terminators, (2) identifies the sender and receiver, (3) provides control information for the interchange, and (4) allows for authorization and security information. (X12.5)

Loop

A group of semantically related segments; these segments may be either bounded or unbounded (X12.6). The N1 loop is an example of a loop, which includes segments N1 to PER for name and address information.

Mandatory (M)

A data element/segment requirement designator which indicates the presence of a specified data element is required.

Mapping

The process of identifying the standard data element's relationship to application data elements.

Max Use

Specifies the maximum number of times a segment can be used at the location in a transaction set

Message

Entire data stream including the outer envelope

Optional (O)

A data element/segment requirement designator which indicates the presence of a specified data element/segment is at the option of the sending party which can be based on the mutual agreement of the interchange parties.

Qualifier

A data element which identifies or defines a related element, set of elements, or a segment. The qualifier contains a code taken from a list of approved codes.

Repeating Segment

A segment that may be used more than once at a given location in a transaction set. See Max Use.

Security

System screening which denies access to unauthorized users and protects data from unauthorized uses

Segment

Segments consist of logically related data elements in a defined sequence. A data segment consists of a segment identifier, one or more data elements each preceded by an element separator, and ends with a segment terminator.

Segment Directory

Provides the purpose and format of the segments used in the construction of transaction sets. The directory lists each segment by name, purpose, identifier, the contained data elements in the specified order, and the requirement designator for each data element.

Segment Identifier

A unique identifier for a segment composed of a combination of two or three upper-case letters and digits. The segment identifier occupies the first-character positions of the segment. The segment identifier is not a data element. The segment identifier in EDIFACT is a component data element — part of a composite data element consisting of a segment identifier and an explicit looping designator.

Segment Terminator

A unique character appearing at the end of a segment to indicate the termination of the segment, e.g., N/L.

Syntax

The grammar or rules which define the structure of the EDI standards (i.e., the use of loops, qualifiers, etc.). Syntax rules are published in ANSI X12.6.

Transaction Set

The transaction set unambiguously defines, in the standard syntax, information of business or strategic significance and consists of a transaction set header segment, one or more data segments in a specified order, and a transaction set trailer segment.

Transaction Set ID

An identifier that uniquely identifies the transaction set. This identifier is the first data element of the transaction set header segment.

Translation

The act of accepting documents in other than standard format and translating them to the standard.

Version/Release

Identifies the publication of the standard being used for the generation or the interpretation of data in the X12 standard format. May be found in the Functional Group Header Segment (GS) and in the Interchange Control Header Segment (ISA). See Control Segment.

VICS Committee

Voluntary Interindustry Communications Standards for Electronic Data Interchange

X12

The ANSI committee responsible for the development and maintenance of standards for electronic data interchange (EDI).

X12.5

Interchange Control Structure. This standard provides the interchange envelope of a header and trailer for the electronic interchange through a data transmission, and it provides a structure to acknowledge the receipt and processing of this envelope.

X12.6

Application Control Structure. This standard describes the control segments used to envelop loops of data segments, to envelop transaction sets, and to envelop groups of related transaction sets.

5.2 DoD GLOSSARY

AIS

Automated Information Systems

ASD(P&L)

Assistant Secretary of Defense (Production and Logistics)

DES

Data Encryption Standard

DISA

Defense Information Systems Agency

DLA

Defense Logistics Agency

ISA

Interchange Control Header Identifier

NIST

National Institute of Standards and Technology

NTE

Note Identifier

PLUS

Protection of Logistics Unclassified/Sensitive Systems

UN/EDIFACT

EDIFACT; Electronic Data Interchange for Administration, Commerce, and Transport

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