997 Functional Acknowledgment

X12/V4010/997 : 997 Functional Acknowledgment

Version: 1.0 Final

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Publication:	**8/28/2019**

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Functional Group=FA

Purpose: This Draft Standard for Trial Use contains the format and establishes the data contents of the Functional Acknowledgment Transaction Set (997) for use within the context of an Electronic Data Interchange (EDI) environment. The transaction set can be used to define the control structures for a set of acknowledgments to indicate the results of the syntactical analysis of the electronically encoded documents. The encoded documents are the transaction sets, which are grouped in functional groups, used in defining transactions for business data interchange. This standard does not cover the semantic meaning of the information encoded in the transaction sets.

Not Defined:

Pos	Id	Segment Name	Req	Max Use	Repeat	Notes
	ISA	Interchange Control Header	M	1		
	GS	Functional Group Header	M	1		

Heading:

Pos	Id	Segment Name	Req	Max Use	Repeat	Notes
010	ST	Transaction Set Header	M	1		N1/010
020	AK1	Functional Group Response Header	M	1		N1/020
LOOP ID - AK2					**999999**	**N1/030L**
030	AK2	Transaction Set Response Header	O	1		N1/030
LOOP ID - AK3					**999999**	**C1/040L**
040	AK3	Data Segment Note	O	1		C1/040
050	AK4	Data Element Note	O	99		
060	AK5	Transaction Set Response Trailer	M	1		
070	AK9	Functional Group Response Trailer	M	1		
080	SE	Transaction Set Trailer	M	1		

Not Defined:

Pos	Id	Segment Name	Req	Max Use	Repeat	Notes
	GE	Functional Group Trailer	M	1		
	IEA	Interchange Control Trailer	M	1		

ISA Interchange Control Header

Pos:	Max: 1
Not Defined - Mandatory	
Loop: N/A	Elements: 16

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

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max
ISA01	I01	**Authorization Information Qualifier** **Description:** Code to identify the type of information in the Authorization Information **All valid standard codes are used.**	M	ID	2/2
ISA02	I02	**Authorization Information** **Description:** Information used for additional identification or authorization of the interchange sender or the data in the interchange; the type of information is set by the Authorization Information Qualifier (I01)	M	AN	10/10
ISA03	I03	**Security Information Qualifier** **Description:** Code to identify the type of information in the Security Information **All valid standard codes are used.**	M	ID	2/2
ISA04	I04	**Security Information** **Description:** 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)	M	AN	10/10
ISA05	I05	**Interchange ID Qualifier** **Description:** Qualifier to designate the system/method of code structure used to designate the sender or receiver ID element being qualified **All valid standard codes are used.**	M	ID	2/2
ISA06	I06	**Interchange Sender ID** **Description:** 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	M	AN	15/15
ISA07	I05	**Interchange ID Qualifier** **Description:** Qualifier to designate the system/method of code structure used to designate the sender or receiver ID element being qualified **All valid standard codes are used.**	M	ID	2/2
ISA08	I07	**Interchange Receiver ID** **Description:** 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	M	AN	15/15

Ref	Id	Element Name	Req	Type	Min/Max
		a receiving ID to route data to them			
ISA09	I08	**Interchange Date** **Description:** Date of the interchange	M	DT	6/6
ISA10	I09	**Interchange Time** **Description:** Time of the interchange	M	TM	4/4
ISA11	I10	**Interchange Control Standards Identifier** **Description:** Code to identify the agency responsible for the control standard used by the message that is enclosed by the interchange header and trailer **All valid standard codes are used.**	M	ID	1/1
ISA12	I11	**Interchange Control Version Number** **Description:** Code specifying the version number of the interchange control segments **Code Name** 00307 Draft Standards for Trial Use Approved for Publication by ASC X12 Procedures Review Board through October 1996 00400 Standard Issued as ANSI X12.5-1997 00401 Draft Standards for Trial Use Approved for Publication by ASC X12 Procedures Review Board through October 1997 00402 Draft Standards for Trial Use Approved for Publication by ASC X12 Procedures Review Board through October 1998	M	ID	5/5
ISA13	I12	**Interchange Control Number** **Description:** A control number assigned by the interchange sender	M	N0	9/9
ISA14	I13	**Acknowledgment Requested** **Description:** Code sent by the sender to request an interchange acknowledgment (TA1) **All valid standard codes are used.**	M	ID	1/1
ISA15	I14	**Usage Indicator** **Description:** Code to indicate whether data enclosed by this interchange envelope is test, production or information **All valid standard codes are used.**	M	ID	1/1
ISA16	I15	**Component Element Separator** **Description:** 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	M		1/1

GS Functional Group Header

Pos:	Max: 1
Not Defined - Mandatory	
Loop: N/A	Elements: 8

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

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max
GS01	479	**Functional Identifier Code** **Description:** Code identifying a group of application related transaction sets **Code Name** FA Functional Acknowledgment (997)	M	ID	2/2
GS02	142	**Application Sender's Code** **Description:** Code identifying party sending transmission; codes agreed to by trading partners	M	AN	2/15
GS03	124	**Application Receiver's Code** **Description:** Code identifying party receiving transmission; codes agreed to by trading partners	M	AN	2/15
GS04	373	**Date** **Description:** Date expressed as CCYYMMDD	M	DT	8/8
GS05	337	**Time** **Description:** 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 DD = decimal seconds; decimal seconds are expressed as follows: D = tenths (0-9) and DD = hundredths (00-99)	M	TM	4/8
GS06	28	**Group Control Number** **Description:** Assigned number originated and maintained by the sender	M	N0	1/9
GS07	455	**Responsible Agency Code** **Description:** Code identifying the issuer of the standard; this code is used in conjunction with Data Element 480 **All valid standard codes are used.**	M	ID	1/2
GS08	480	**Version / Release / Industry Identifier Code** **Description:** 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 user); if code in DE455 in GS segment is T, then other formats are allowed	M	AN	1/12

Ref	Id	Element Name	Req	Type	Min/Max

Code	Name
004010	Draft Standards Approved for Publication by ASC X12 Procedures Review Board through October 1997

ST Transaction Set Header

Pos: 010	Max: 1
Heading - Mandatory	
Loop: N/A	Elements: 2

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

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max
ST01	143	**Transaction Set Identifier Code** **Description:** Code uniquely identifying a Transaction Set **All valid standard codes are used.**	M	ID	3/3
ST02	329	**Transaction Set Control Number** **Description:** Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set	M	AN	4/9

AK1 Functional Group Response Header

Pos: 020	Max: 1
Heading - Mandatory	
Loop: N/A	Elements: 2

Purpose: To start acknowledgment of a functional group

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max
AK101	479	**Functional Identifier Code** **Description:** Code identifying a group of application related transaction sets **All valid standard codes are used.**	M	ID	2/2
AK102	28	**Group Control Number** **Description:** Assigned number originated and maintained by the sender	M	N0	1/9

AK2 Transaction Set Response Header

Pos: 030	Max: 1
Heading - Optional	
Loop: AK2	Elements: 2

Purpose: To start acknowledgment of a single transaction set

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max
AK201	143	**Transaction Set Identifier Code** **Description:** Code uniquely identifying a Transaction Set **All valid standard codes are used.**	M	ID	3/3
AK202	329	**Transaction Set Control Number** **Description:** Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set	M	AN	4/9

AK3 Data Segment Note

Pos: 040	Max: 1
Heading - Optional	
Loop: AK3	Elements: 4

Purpose: To report errors in a data segment and identify the location of the data segment

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max
AK301	721	**Segment ID Code** **Description:** Code defining the segment ID of the data segment in error (See Appendix A - Number 77)	M	ID	2/3
AK302	719	**Segment Position in Transaction Set** **Description:** The numerical count position of this data segment from the start of the transaction set: the transaction set header is count position 1	M	N0	1/6
AK303	447	**Loop Identifier Code** **Description:** The loop ID number given on the transaction set diagram is the value for this data element in segments LS and LE	O	AN	1/6
AK304	720	**Segment Syntax Error Code** **Description:** Code indicating error found based on the syntax editing of a segment **All valid standard codes are used.**	O	ID	1/3

AK4 Data Element Note

Pos: 050	Max: 99
Heading - Optional	
Loop: AK3	Elements: 4

Purpose: To report errors in a data element or composite data structure and identify the location of the data element

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max
AK401	C030	**Position in Segment**	M	Comp	
		Description: Code indicating the relative position of a simple data element, or the relative position of a composite data structure combined with the relative position of the component data element within the composite data structure, in error; the count starts with 1 for the simple data element or composite data structure immediately following the segment ID			
AK401-01	722	**Element Position in Segment**	M	N0	1/2
		Description: This is used to indicate the relative position of a simple data element, or the relative position of a composite data structure with the relative position of the component within the composite data structure, in error; in the data segment the count starts with 1 for the simple data element or composite data structure immediately following the segment ID			
AK401-02	1528	**Component Data Element Position in Composite**	O	N0	1/2
		Description: To identify the component data element position within the composite that is in error			
AK402	725	**Data Element Reference Number**	O	N0	1/4
		Description: Reference number used to locate the data element in the Data Element Dictionary			
AK403	723	**Data Element Syntax Error Code**	M	ID	1/3
		Description: Code indicating the error found after syntax edits of a data element **All valid standard codes are used.**			
AK404	724	**Copy of Bad Data Element**	O	AN	1/99
		Description: This is a copy of the data element in error			

AK5 Transaction Set Response Trailer

Pos: 060	Max: 1
Heading - Mandatory	
Loop: AK2	Elements: 6

Purpose: To acknowledge acceptance or rejection and report errors in a transaction set

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max
AK501	717	**Transaction Set Acknowledgment Code** **Description:** Code indicating accept or reject condition based on the syntax editing of the transaction set **All valid standard codes are used.**	M	ID	1/1
AK502	718	**Transaction Set Syntax Error Code** **Description:** Code indicating error found based on the syntax editing of a transaction set **All valid standard codes are used.**	O	ID	1/3
AK503	718	**Transaction Set Syntax Error Code** **Description:** Code indicating error found based on the syntax editing of a transaction set **All valid standard codes are used.**	O	ID	1/3
AK504	718	**Transaction Set Syntax Error Code** **Description:** Code indicating error found based on the syntax editing of a transaction set **All valid standard codes are used.**	O	ID	1/3
AK505	718	**Transaction Set Syntax Error Code** **Description:** Code indicating error found based on the syntax editing of a transaction set **All valid standard codes are used.**	O	ID	1/3
AK506	718	**Transaction Set Syntax Error Code** **Description:** Code indicating error found based on the syntax editing of a transaction set **All valid standard codes are used.**	O	ID	1/3

AK9 Functional Group Response Trailer

Pos: 070	Max: 1
Heading - Mandatory	
Loop: N/A	Elements: 9

Purpose: To acknowledge acceptance or rejection of a functional group and report the number of included transaction sets from the original trailer, the accepted sets, and the received sets in this functional group

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max
AK901	715	**Functional Group Acknowledge Code** **Description:** Code indicating accept or reject condition based on the syntax editing of the functional group **All valid standard codes are used.**	M	ID	1/1
AK902	97	**Number of Transaction Sets Included** **Description:** Total number of transaction sets included in the functional group or interchange (transmission) group terminated by the trailer containing this data element	M	N0	1/6
AK903	123	**Number of Received Transaction Sets** **Description:** Number of Transaction Sets received	M	N0	1/6
AK904	2	**Number of Accepted Transaction Sets** **Description:** Number of accepted Transaction Sets in a Functional Group	M	N0	1/6
AK905	716	**Functional Group Syntax Error Code** **Description:** Code indicating error found based on the syntax editing of the functional group header and/or trailer **All valid standard codes are used.**	O	ID	1/3
AK906	716	**Functional Group Syntax Error Code** **Description:** Code indicating error found based on the syntax editing of the functional group header and/or trailer **All valid standard codes are used.**	O	ID	1/3
AK907	716	**Functional Group Syntax Error Code** **Description:** Code indicating error found based on the syntax editing of the functional group header and/or trailer **All valid standard codes are used.**	O	ID	1/3
AK908	716	**Functional Group Syntax Error Code** **Description:** Code indicating error found based on the syntax editing of the functional group header and/or trailer **All valid standard codes are used.**	O	ID	1/3
AK909	716	**Functional Group Syntax Error Code** **Description:** Code indicating error found based on the syntax editing of the functional group header and/or trailer **All valid standard codes are used.**	O	ID	1/3

Ref	Id	Element Name	Req	Type	Min/Max

SE Transaction Set Trailer

Pos: 080	Max: 1
Heading - Mandatory	
Loop: N/A	Elements: 2

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)

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max
SE01	96	**Number of Included Segments**	M	N0	1/10
		Description: Total number of segments included in a transaction set including ST and SE segments			
SE02	329	**Transaction Set Control Number**	M	AN	4/9
		Description: Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set			

GE Functional Group Trailer

Pos:	Max: 1
Not Defined - Mandatory	
Loop: N/A	Elements: 2

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

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max
GE01	97	**Number of Transaction Sets Included**	M	N0	1/6
		Description: Total number of transaction sets included in the functional group or interchange (transmission) group terminated by the trailer containing this data element			
GE02	28	**Group Control Number**	M	N0	1/9
		Description: Assigned number originated and maintained by the sender			

IEA Interchange Control Trailer

Pos:	Max: 1
Not Defined - Mandatory	
Loop: N/A	Elements: 2

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

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max
IEA01	I16	**Number of Included Functional Groups**	M	N0	1/5
		Description: A count of the number of functional groups included in an interchange			
IEA02	I12	**Interchange Control Number**	M	N0	9/9
		Description: A control number assigned by the interchange sender			