# 997 Functional Acknowledgment

Functional Group ID=FA

#### **Introduction:**

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.

#### Notes:

Use this implementation convention to acknowledge receipt, and acceptance or rejection of a functional group and the transaction set(s) contained within it based upon EDI translation software syntax edits.

<b>Page No.</b> 3	Pos. <u>No.</u> 010	Seg. ID ST	<u>Name</u> Transaction Set Header	Req. Des. M	Max.Use	Loop <u>Repeat</u>	Notes and Comments n1
4	020	AK1	Functional Group Response Header	M	1		n2
			LOOP ID - AK2		·	999999	
5	030	AK2	Transaction Set Response Header	O	1		n3
			LOOP ID - AK3			999999	
6	040	AK3	Data Segment Note	O	1		c1
7	050	AK4	Data Element Note	O	99		
9	060	AK5	Transaction Set Response Trailer	M	1		
10	070	AK9	Functional Group Response Trailer	M	1		
12	080	SE	Transaction Set Trailer	M	1		

#### **Transaction Set Notes**

- 1. These acknowledgments shall not be acknowledged, thereby preventing an endless cycle of acknowledgments of acknowledgments. Nor shall a Functional Acknowledgment be sent to report errors in a previous Functional Acknowledgment.
  - The Functional Group Header Segment (GS) is used to start the envelope for the Functional Acknowledgment Transaction Sets. In preparing the functional group of acknowledgments, the application sender's code and the application receiver's code, taken from the functional group being acknowledged, are exchanged; therefore, one acknowledgment functional group responds to only those functional groups from one application receiver's code to one application sender's code. There is only one Functional Acknowledgment Transaction Set per acknowledged functional group.
- **2.** AK1 is used to respond to the functional group header and to start the acknowledgement for a functional group. There shall be one AK1 segment for the functional group that is being acknowledged.

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**3.** AK2 is used to start the acknowledgement of a transaction set within the received functional group. The AK2 segments shall appear in the same order as the transaction sets in the functional group that has been received and is being acknowledged.

#### **Transaction Set Comments**

1. The data segments of this standard are used to report the results of the syntactical analysis of the functional groups of transaction sets; they report the extent to which the syntax complies with the standards for transaction sets and functional groups. They do not report on the semantic meaning of the transaction sets (for example, on the ability of the receiver to comply with the request of the sender).

Segment: ST Transaction Set Header

**Position:** 010

Loop:

Level:

**Usage:** Mandatory

Max Use:

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

**Syntax Notes:** 

**Semantic Notes:** 1 The transaction set identifier (ST01) is used by the translation routines of the

interchange partners to select the appropriate transaction set definition (e.g.,

810 selects the Invoice Transaction Set).

**Comments:** 

	Ref.	Data		
	Des.	<b>Element</b>	Name	<b>Attributes</b>
Must Use	ST01	143	<b>Transaction Set Identifier Code</b>	M ID 3/3
			Code uniquely identifying a Transaction Set	
			997 Functional Acknowledgment	
Must Use	ST02	329	<b>Transaction Set Control Number</b>	M AN 4/9
			Identifying control number that must be unique within the functional group assigned by the originator for a transaction	
			Use to transmit a unique number assigned by the origin	ator of the
			transaction set. The number may be system generated.	This same
			number will be cited in SE02.	

Segment:  $\mathbf{AK1}$  Functional Group Response Header

**Position:** 020

Loop:

Level:

**Usage:** Mandatory

Max Use: 1

**Purpose:** To start acknowledgment of a functional group

**Syntax Notes:** 

Semantic Notes: 1 AK101 is the functional ID

- 1 AK101 is the functional ID found in the GS segment (GS01) in the functional group being acknowledged.
- 2 AK102 is the functional group control number found in the GS segment in the functional group being acknowledged.

**Comments:** 

**Notes:** 

- 1. Use to identify the unique identification number of the functional group in which the transaction set(s) being acknowledged was received.
- 2. Only one functional group may be referenced in a single 997 acknowledgment transaction set.

	Ref.	Data					
	Des.	<b>Element</b>	Name	Att	<u>ributes</u>		
Must Use	AK101	479	Functional Identifier Code	$\mathbf{M}$	ID 2/2		
			Code identifying a group of application related transaction sets				
			Cite, using the appropriate code from the X12 code list, the functional group ID found in GS01 of the functional group being acknowledged.				
			Refer to 004010 Data Element Dictionary for acceptable coo	le va	lues.		
Must Use	AK102	28	<b>Group Control Number</b>	M	N0 1/9		
Assigned number originated and maintained by th							
			Use to identify the number cited in GS06 of the functional acknowledged.	l gro	up being		

Segment: AK2 Transaction Set Response Header

**Position:** 030

Loop: AK2 Optional

Level:

Usage: Optional

Max Use: 1

**Purpose:** To start acknowledgment of a single transaction set

**Syntax Notes:** 

**Semantic Notes:** 1 AK201 is the transaction set ID found in the ST segment (ST01) in the

transaction set being acknowledged.

2 AK202 is the transaction set control number found in the ST segment in the

transaction set being acknowledged.

**Comments:** 

Notes: 1. Use to identify the unique identification number of the transaction set being

acknowledged.

2. AK2 and AK5 shall be provided for each transaction set that is accepted.

3. Also, AK2 and AK5 shall be provided for each transaction set being rejected

for containing a syntactical error.

Must Use	Ref. <u>Des.</u> AK201	Data <u>Element</u> 143	Name Transaction Set Identifier Code		ributes ID 3/3
			Code uniquely identifying a Transaction Set		
			Refer to 004010 Data Element Dictionary for acceptable code	le va	lues.
Must Use	AK202	329	Transaction Set Control Number	M	AN 4/9
			Identifying control number that must be unique within the tr functional group assigned by the originator for a transaction		ction set
			Use to identify the number cited in SE02/ST02 of the tran- being acknowledged.	isacti	ion set

AK3 Data Segment Note **Segment:** 

**Position:** 040

> Loop: AK3 Optional

Level:

**Usage:** Optional

Max Use: **Purpose:** 

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

**Syntax Notes: Semantic Notes: Comments:** 

**Notes:** This 1/AK3/040 loop shall be used only to identify one or more segments

containing syntactical errors resulting in rejection of the transaction set or functional group. This loop shall not be used when transaction set and

functional group receipt and acceptance is being acknowledged.

#### **Data Element Summary**

	Ref. Des.	Data Element	Name	Attributes
Must Use	AK301	721	Segment ID Code	M ID 2/3
			Code defining the segment ID of the data segment in error (A - Number 77)	See Appendix
			Use to identify the segment containing syntactical errors, in the ASC X12 Data Segment Dictionary, e.g., DTM, NI	• •
Must Use	AK302	719	<b>Segment Position in Transaction Set</b>	M N0 1/6
The numerical count position of this data segment from the start transaction set: the transaction set header is count position 1				
			Use to identify the segment's sequential position within the of the transaction set as transmitted. This number is not position number portrayed in the transaction set structure example, if the segments used in an 810 request for progwere as follows: ST, BIG, REF, N1, N1, PER, ITD, DTM, SLN, SLN, TDS, CTT, SE, and there was a syntax second use of the N1 segment, the number cited would be syntax error was in the third use of the SLN segment, the would be 13.	the segment's re. For ress payment 1, IT1, IT1, error in the 2 5. If the
	AK303	447	Loop Identifier Code	O AN 1/6
			The loop ID number given on the transaction set diagram is this data element in segments LS and LE	the value for
	AK304	720	Segment Syntax Error Code	O ID 1/3
			Code indicating error found based on the syntax editing of a	segment
			Use only when a segment is being rejected, to identify the rejection. Do not use when the error is in a data element segment and editing is being done at least to that level.	· ·

Refer to 004010 Data Element Dictionary for acceptable code values.

Segment: AK4 Data Element Note

**Position:** 050

Loop: AK3 Optional

Level:

Usage: Optional Max Use: 99

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

location of the data element

**Syntax Notes:** 

**Semantic Notes:** 1 In no ca

1 In no case shall a value be used for AK404 that would generate a syntax error,

e.g., an invalid character.

**Comments:** 

Notes: Use to identify an error with a data element. When used, there must be a use of

the AK3 segment citing the segment in which the data element with the error appears. Use multiple occurrences of this segment to identify all data element

errors within the segment specified in the preceding AK3 segment.

	TD 0	<b>5</b> .	Data Element Summary					
	Ref.	Data						
	Des.	Element	Name	<u>Attributes</u>				
Must Use	AK401	C030	Position in Segment	M				
			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					
Must Use	C03001	722	<b>Element Position in Segment</b>	M N0 1/2				
			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					
			Use to indicate the position of the data element, within the containing the error, e.g., 3, 12, etc.	e segment,				
	C03002	1528	<b>Component Data Element Position in Composite</b>	O N0 1/2				
			To identify the component data element position within the dis in error	composite that				
Must Use	AK402	725	<b>Data Element Reference Number</b>	O N0 1/4				
			Reference number used to locate the data element in the Data Element Dictionary  Use to identify the data element number as it appears in the ASC X12  Data Element Dictionary, for example, the data element number for N101 is 98, the data element number for N103 is 66.					
Must Use	AK403	723	Data Element Syntax Error Code	M ID 1/3				
			Code indicating the error found after syntax edits of a data e	lement				

Refer to 004010 Data Element Dictionary for acceptable code values.

AK404 724 Copy of Bad Data Element

O AN 1/99

This is a copy of the data element in error

Segment: AK5 Transaction Set Response Trailer

**Position:** 060

Loop: AK2 Optional

Level:

**Usage:** Mandatory

Max Use: 1

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

Syntax Notes: Semantic Notes:

**Comments:** 

Notes: Use to indicate whether the transaction set indicated in the corresponding AK2

segment was accepted or rejected. If the transaction set is being rejected, use this

segment to identify up to five (5) syntax errors at the transaction level.

			Data Element Summary					
	Ref.	Data						
	Des.	<b>Element</b>			<u>ributes</u>			
Must Use	AK501	717	Transaction Set Acknowledgment Code	M	ID 1/1			
			Code indicating accept or reject condition based on the syntax	edi	iting of			
			the transaction set					
			Refer to 004010 Data Element Dictionary for acceptable code	val	lues.			
	AK502	718	Transaction Set Syntax Error Code	O	ID 1/3			
			Code indicating error found based on the syntax editing of a tr	Code indicating error found based on the syntax editing of a transaction set				
			1. Use only when a transaction set is being rejected, to identify the basis for rejection. If multiple codes apply, they may be carried in AK503 through AK506, as necessary. No individual code may be used more than once in a single use of this segment.					
			2. Use code 5 when the 1/AK3/040 loop is not used and syntactical errors occurred below the transaction set level.					
			Refer to 004010 Data Element Dictionary for acceptable code	va	lues.			
	AK503	718	Transaction Set Syntax Error Code	o	ID 1/3			
			Code indicating error found based on the syntax editing of a tr	rans	saction set			
			Refer to 004010 Data Element Dictionary for acceptable code	val	lues.			
	AK504	718	Transaction Set Syntax Error Code	0	ID 1/3			
			Code indicating error found based on the syntax editing of a tr	rans	saction set			
			Refer to 004010 Data Element Dictionary for acceptable code values.					
	AK505	718	Transaction Set Syntax Error Code	o	ID 1/3			
			Code indicating error found based on the syntax editing of a tr	rans	saction set			
			Refer to 004010 Data Element Dictionary for acceptable code values.					
	AK506	718	Transaction Set Syntax Error Code	0	ID 1/3			
			Code indicating error found based on the syntax editing of a tr	rans	saction set			
			Refer to 004010 Data Element Dictionary for acceptable code					
			· · · · · ·					

Segment:  $\mathbf{AK9}$  Functional Group Response Trailer

**Position:** 070

Loop:

Level:

**Usage:** Mandatory

Max Use: 1

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

Syntax Notes: Semantic Notes:

Comments:

1 If AK901 contains the value "A" or "E", then the transmitted functional group is

accepted.

Notes: 1. Use only to indicate whether the functional group was accepted or rejected

based on syntax errors in the functional group header or trailer.

2. If a functional group is rejected, all transaction sets within that group must be rejected using the AK9. In this case, individual AK2s for the rejected transaction

sets need not be provided.

3. If the functional group is being rejected, use to identify up to five (5) syntax

errors at the functional group level.

	Ref.	Data			
	Des.	<b>Element</b>	<u>Name</u>	Att	<u>ributes</u>
Must Use	AK901	715	Functional Group Acknowledge Code	$\mathbf{M}$	<b>ID</b> 1/1
			Code indicating accept or reject condition based on the syntathe functional group	ax ed	iting of
			Refer to 004010 Data Element Dictionary for acceptable coo	de va	lues.
Must Use	AK902	97	<b>Number of Transaction Sets Included</b>	M	N0 1/6
			Total number of transaction sets included in the functional g interchange (transmission) group terminated by the trailer co data element		
Must Use	AK903	123	<b>Number of Received Transaction Sets</b>	M	N0 1/6
			Number of Transaction Sets received		
Must Use	AK904	2	<b>Number of Accepted Transaction Sets</b>	M	N0 1/6
			Number of accepted Transaction Sets in a Functional Group	,	
	AK905	716	Functional Group Syntax Error Code	0	ID 1/3
			Code indicating error found based on the syntax editing of the group header and/or trailer	ne fui	nctional
			1. Use only when a functional group is being rejected to basis for rejection.	ideni	tify the
			2. Codes may also be carried in AK906 through AK909,	but r	10

# individual code may be used more than once in a single iteration of this segment.

Refer to 004010 Data Element Dictionary for acceptable code values.

### AK906 716 Functional Group Syntax Error Code

Code indicating error found based on the syntax editing of the functional group header and/or trailer

O ID 1/3

Refer to 004010 Data Element Dictionary for acceptable code values.

#### AK907 716 Functional Group Syntax Error Code O ID 1/3

Code indicating error found based on the syntax editing of the functional group header and/or trailer

Refer to 004010 Data Element Dictionary for acceptable code values.

#### AK908 716 Functional Group Syntax Error Code O ID 1/3

Code indicating error found based on the syntax editing of the functional group header and/or trailer

Refer to 004010 Data Element Dictionary for acceptable code values.

# AK909 716 Functional Group Syntax Error Code O ID 1/3

Code indicating error found based on the syntax editing of the functional group header and/or trailer

Refer to 004010 Data Element Dictionary for acceptable code values.

Segment:  $\mathbf{SE}$  Transaction Set Trailer

**Position:** 080

Loop:

Level:

Usage: Mandatory

Max Use: 1

Purpose: To indicate the end of the transaction set and provide the count of the transmitted

segments (including the beginning (ST) and ending (SE) segments)

**Syntax Notes:** 

**Semantic Notes:** 

**Comments:** 1 SE is the last segment of each transaction set.

Must Use	Ref. Des. SE01	Data Element 96	Name Number of Included Segments		ributes N0 1/10	
			Total number of segments included in a transaction set included SE segments	ding	ST and	
Must Use	SE02	329	Transaction Set Control Number	M	AN 4/9	
			Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set			
			Use the same number cited in ST02.			