

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.

	<u>Pos. No.</u>	<u>Seg. ID</u>	<u>Name</u>	<u>Req. Des.</u>	<u>Max.Use</u>	<u>Loop Repeat</u>	<u>Notes and Comments</u>
M	010	ST	Transaction Set Header	M	1		n1
M	020	AK1	Functional Group Response Header	M	1		n2
			LOOP ID - AK2			999999	
	030	AK2	Transaction Set Response Header	O	1		n3
			LOOP ID - AK3			999999	
	040	AK3	Data Segment Note	O	1		c1
	050	AK4	Data Element Note	O	99		
	060	AK5	Transaction Set Response Trailer	O	1		
M	070	AK9	Functional Group Response Trailer	M	1		
M	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.
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.
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: 1
Purpose: To indicate the start of a transaction set and to assign a control number
Syntax Notes:
Semantic Notes: 1 The transaction set identifier (ST01) is used by the translation routines of the interchange partners to select the appropriate transaction set definition (e.g., 810 selects the Invoice Transaction Set).
Comments:
Notes: Example: ST*997*254619865

Data Element Summary

Ref.	Data	Name	Attributes
Des.	Element	Name	Attributes
M	ST01	143 Transaction Set Identifier Code	M ID 3/3
		Code uniquely identifying a Transaction Set	
		Use "997" for Functional Acknowledgment.	
		Refer to 003040 Data Element Dictionary for acceptable code values.	
M	ST02	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	
		This number must match the value in SE02.	

Segment: **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 found in the GS segment (GS01) in the functional group being acknowledged.
- 2 AK102 is the data interchange control number found in the GS segment in the functional group being acknowledged.

Comments:
Notes: Example: AK1*SH*300001987

Data Element Summary

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
M	AK101	479	Functional Identifier Code Code identifying a group of application related transaction sets The value must match the functional group identifier GS01 of the group being acknowledged.	M ID 2/2
M	AK102	28	Group Control Number Assigned number originated and maintained by the sender Control number must match number of GS06 group being acknowledged.	M N0 1/9

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: Example: AK2*830*254619865

Data Element Summary

	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
M	AK201	143	Transaction Set Identifier Code Code uniquely identifying a Transaction Set Refer to 003040 Data Element Dictionary for acceptable code values.	M ID 3/3
M	AK202	329	Transaction Set Control Number Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set	M AN 4/9

Segment: **AK3** Data Segment Note
Position: 040
Loop: AK3 Optional
Level:
Usage: Optional
Max Use: 1
Purpose: To report errors in a data segment and identify the location of the data segment
Syntax Notes:
Semantic Notes:
Comments:
Notes: Example: AK3*HL*15**2

Data Element Summary

Ref.	Data		
<u>Des.</u>	<u>Element</u>	<u>Name</u>	<u>Attributes</u>
M	AK301	721 Segment ID Code	M ID 2/3
		Code defining the segment ID of the data segment in error (See Appendix A - Number 77)	
M	AK302	719 Segment Position in Transaction Set	M N0 1/6
		The numerical count position of this data segment from the start of the transaction set: the transaction set header is count position 1	
	AK303	447 Loop Identifier Code	O AN 1/4
		The loop ID number given on the transaction set diagram is the value for this data element in segments LS and LE	
	AK304	720 Segment Syntax Error Code	O ID 1/3
		Code indicating error found based on the syntax editing of a segment Refer to 003040 Data Element Dictionary for acceptable code values.	
	AK305	720 Segment Syntax Error Code	O ID 1/3
		Code indicating error found based on the syntax editing of a segment Refer to 003040 Data Element Dictionary for acceptable code values.	
	AK306	720 Segment Syntax Error Code	O ID 1/3
		Code indicating error found based on the syntax editing of a segment Refer to 003040 Data Element Dictionary for acceptable code values.	
	AK307	720 Segment Syntax Error Code	O ID 1/3
		Code indicating error found based on the syntax editing of a segment Refer to 003040 Data Element Dictionary for acceptable code values.	
	AK308	720 Segment Syntax Error Code	O ID 1/3
		Code indicating error found based on the syntax editing of a segment Refer to 003040 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 and identify the location of the data element
Syntax Notes:
Semantic Notes:
Comments:

Notes: Provides location and identification of the data elements within the data segment referred to by AK3.

Example: AK4*1*628*2

Data Element Summary

Ref.	Data		
<u>Des.</u>	<u>Element</u>	<u>Name</u>	<u>Attributes</u>
M	AK401	722	Element Position in Segment M N0 1/2 This is used to indicate the relative position of the data element in error in this data segment. The count starts with 1 for the data element immediately following the segment ID. This value is 0 for an error in the segment ID.
	AK402	725	Data Element Reference Number O N0 1/4 Reference number used to locate the Data Element Dictionary.
	AK403	723	Data Element Syntax Error Code O ID 1/3 Code indicating the error found after syntax edits of a data element Refer to 003040 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: Optional
Max Use: 1
Purpose: To acknowledge acceptance or rejection and report errors in a transaction set
Syntax Notes:
Semantic Notes:
Comments:

Notes: Example: AK5*A
 AK5*R*5

Data Element Summary

Ref.	Data		
<u>Des.</u>	<u>Element</u>	<u>Name</u>	<u>Attributes</u>
M	AK501	717 Transaction Set Acknowledgment Code	M ID 1/1
		Code indicating accept or reject condition based on the syntax editing of the transaction set Refer to 003040 Data Element Dictionary for acceptable code values.	
	AK502	718 Transaction Set Syntax Error Code	O ID 1/3
		Code indicating error found based on the syntax editing of a transaction set Refer to 003040 Data Element Dictionary for acceptable code values.	
	AK503	718 Transaction Set Syntax Error Code	O ID 1/3
		Code indicating error found based on the syntax editing of a transaction set Refer to 003040 Data Element Dictionary for acceptable code values.	
	AK504	718 Transaction Set Syntax Error Code	O ID 1/3
		Code indicating error found based on the syntax editing of a transaction set Refer to 003040 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 transaction set Refer to 003040 Data Element Dictionary for acceptable code values.	
	AK506	718 Transaction Set Syntax Error Code	O ID 1/3
		Code indicating error found based on the syntax editing of a transaction set Refer to 003040 Data Element Dictionary for acceptable code values.	

Segment: **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 is 'A' or 'E', then the transmitted functional group is accepted. If AK901 is 'R', then the transmitted group is rejected.

Notes: Example: AK9*A*1*1*1

Data Element Summary

Ref.	Data			
<u>Des.</u>	<u>Element</u>	<u>Name</u>		<u>Attributes</u>
M	AK901	715	Functional Group Acknowledge Code	M ID 1/1
			Code indicating accept or reject condition based on the syntax editing of the functional group	
			Refer to 003040 Data Element Dictionary for acceptable code values.	
M	AK902	97	Number of Transaction Sets Included	M N0 1/6
			Total number of transaction sets included in the functional group or interchange (transmission) group terminated by the trailer containing this data element	
M	AK903	123	Number of Received Transaction Sets	M N0 1/6
			Number of Transaction Sets received	
M	AK904	2	Number of Accepted Transaction Sets	M N0 1/6
			Number of accepted Transaction Sets in a Functional Group	
	AK905	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 003040 Data Element Dictionary for acceptable code values.	
	AK906	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 003040 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 003040 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 003040 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 003040 Data Element Dictionary for acceptable code values.

Segment: **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.

Notes: The transaction set control number (SE02) in this trailer must match the control number value in the transaction in the set header (ST02).

Example: SE*7*254619865

Data Element Summary

	Ref.	Data		
	Des.	Element	Name	Attributes
M	SE01	96	Number of Included Segments	M N0 1/10
			Total number of segments included in a transaction set including ST and SE segments	
M	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	