

# 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>Page No.</u>	<u>Pos. No.</u>	<u>Seg. ID</u>	<u>Name</u>	<u>Base Status</u>	<u>User Status</u>	<u>Max.Use</u>	<u>Loop Repeat</u>	<u>Notes and Comments</u>
2	010	ST	Transaction Set Header	M	M	1		n1
3	020	AK1	Functional Group Response Header	M	M	1		n2
							999999	
4	030	AK2	Transaction Set Response Header	O		1		n3
							999999	
5	040	AK3	Data Segment Note	O		1		c1
6	050	AK4	Data Element Note	O		99		
7	060	AK5	Transaction Set Response Trailer	M	M	1		
8	070	AK9	Functional Group Response Trailer	M	M	1		
9	080	SE	Transaction Set Trailer	M	M	1		

## Transaction Set Notes

- 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.
- 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.
- 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

- 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  
**Comments:**  
**Notes:** *EXAMPLE: ST\*997\*01~*

**Data Element Summary**

<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Base Attributes</u>	<u>User Attributes</u>
ST01	143	Transaction Set Identifier Code	M ID 3/3	M
		Code uniquely identifying a Transaction Set		
		997 Functional Acknowledgment		
ST02	329	Transaction Set Control Number	M AN 4/9	M
		Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set		

**Segment:** **AK1** Functional Group Response Header  
**Position:** 020  
**Loop:**  
**Level:**  
**Usage:** Mandatory  
**Max Use:** 1  
**Purpose:** To start acknowledgment of a functional group  
**Comments:**  
**Notes:** *EXAMPLE: AK\*1\*PO\*00000001~*

**Data Element Summary**

<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Base</u> <u>Attributes</u>	<u>User</u> <u>Attributes</u>
AK101	479	<b>Functional Identifier Code</b>	M ID 2/2	M
		Code identifying a group of application related transaction sets		
		PD	Product Activity Data (852)	
		PO	Purchase Order (850)	
		PR	Purchase Order Acknowledgement (855)	
		SC	Price/Sales Catalog (832)	
		SH	Ship Notice/Manifest (856)	
AK102	28	<b>Group Control Number</b>	M N0 1/9	M
		Assigned number originated and maintained by the sender		

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**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  
**Comments:**  
**Notes:** *EXAMPLE: AK2\*850\*00001~*

**Data Element Summary**

<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Base Attributes</u>	<u>User Attributes</u>
AK201	143	<b>Transaction Set Identifier Code</b> Code uniquely identifying a Transaction Set	M ID 3/3	M
		810 Invoice		
		832 Price/Sales Catalog		
		850 Purchase Order		
		852 Product Activity Data		
		855 Purchase Order Acknowledgment		
		856 Ship Notice/Manifest		
AK202	329	<b>Transaction Set Control Number</b> 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	M

**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  
**Comments:**

**Data Element Summary**

<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Base</u> <u>Attributes</u>	<u>User</u> <u>Attributes</u>
AK301	721	<b>Segment ID Code</b>	<b>M ID 2/3</b>	<b>M</b>
		Code defining the segment ID of the data segment in error (See Appendix A - Number 77)		
AK302	719	<b>Segment Position in Transaction Set</b>	<b>M N0 1/6</b>	<b>M</b>
		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	<b>Loop Identifier Code</b>	<b>O AN 1/6</b>	
		The loop ID number given on the transaction set diagram is the value for this data element in segments LS and LE		
AK304	720	<b>Segment Syntax Error Code</b>	<b>O ID 1/3</b>	
		Code indicating error found based on the syntax editing of a segment		
		1	Unrecognized segment ID	
		2	Unexpected segment	
		3	Mandatory segment missing	

**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  
**Comments:**

**Data Element Summary**

<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Base</u> <u>Attributes</u>	<u>User</u> <u>Attributes</u>
AK401	C030	<b>Position in Segment</b>	M	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		
C03001	722	<b>Element Position in Segment</b>	M N0 1/2	M
		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		
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		
AK403	723	<b>Data Element Syntax Error Code</b>	M ID 1/3	M
		Code indicating the error found after syntax edits of a data element		
		1 Mandatory data element missing		
		2 Conditional required data element missing.		
		3 Too many data elements.		
		4 Data element too short.		
		5 Data element too long.		
		6 Invalid character in data element.		
		7 Invalid code value.		
AK404	724	<b>Copy of Bad Data Element</b>	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  
**Comments:**

**Data Element Summary**

<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Base</u> <u>Attributes</u>	<u>User</u> <u>Attributes</u>
AK501	717	<b>Transaction Set Acknowledgment Code</b>	<b>M ID 1/1</b>	<b>M</b>
		Code indicating accept or reject condition based on the syntax editing of the transaction set		
		A Accepted		
		E Accepted But Errors Were Noted		
		R Rejected		
AK502	718	<b>Transaction Set Syntax Error Code</b>	<b>O ID 1/3</b>	
		Code indicating error found based on the syntax editing of a transaction set		
		1 Transaction Set Not Supported		
		2 Transaction Set Trailer Missing		
		3 Transaction Set Control Number in Header and Trailer Do Not Match		
		4 Number of Included Segments Does Not Match Actual Count		
		5 One or More Segments in Error		
AK503	718	<b>Transaction Set Syntax Error Code</b>	<b>O ID 1/3</b>	
		Code indicating error found based on the syntax editing of a transaction set		
		Refer to 004010VICS Data Element Dictionary for acceptable code values.		
AK504	718	<b>Transaction Set Syntax Error Code</b>	<b>O ID 1/3</b>	
		Code indicating error found based on the syntax editing of a transaction set		
		Refer to 004010VICS Data Element Dictionary for acceptable code values.		
AK505	718	<b>Transaction Set Syntax Error Code</b>	<b>O ID 1/3</b>	
		Code indicating error found based on the syntax editing of a transaction set		
		Refer to 004010VICS Data Element Dictionary for acceptable code values.		
AK506	718	<b>Transaction Set Syntax Error Code</b>	<b>O ID 1/3</b>	
		Code indicating error found based on the syntax editing of a transaction set		
		Refer to 004010VICS 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  
**Comments:** 1 If AK901 contains the value "A" or "E", then the transmitted functional group is accepted.

**Data Element Summary**

<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Base Attributes</u>	<u>User Attributes</u>
AK901	715	<b>Functional Group Acknowledge Code</b> Code indicating accept or reject condition based on the syntax editing of the functional group A Accepted E Accepted, But Errors Were Noted. P Partially Accepted, At Least One Transaction Set Was Rejected R Rejected	M ID 1/1	M
AK902	97	<b>Number of Transaction Sets Included</b> 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	M
AK903	123	<b>Number of Received Transaction Sets</b> Number of Transaction Sets received	M N0 1/6	M
AK904	2	<b>Number of Accepted Transaction Sets</b> Number of accepted Transaction Sets in a Functional Group	M N0 1/6	M
AK905	716	<b>Functional Group Syntax Error Code</b> Code indicating error found based on the syntax editing of the functional group header and/or trailer 1 Functional Group Not Supported 2 Functional Group Version Not Supported 3 Functional Group Trailer Missing 4 Group Control Number in the Functional Group Header and Trailer Do Not Agree 5 Number of Included Transaction Sets Does Not Match Actual Count	O ID 1/3	
AK906	716	<b>Functional Group Syntax Error Code</b> Code indicating error found based on the syntax editing of the functional group header and/or trailer Refer to 004010VICS Data Element Dictionary for acceptable code values.	O ID 1/3	
AK907	716	<b>Functional Group Syntax Error Code</b> Code indicating error found based on the syntax editing of the functional group header and/or trailer Refer to 004010VICS Data Element Dictionary for acceptable code values.	O ID 1/3	
AK908	716	<b>Functional Group Syntax Error Code</b> Code indicating error found based on the syntax editing of the functional group header and/or trailer Refer to 004010VICS Data Element Dictionary for acceptable code values.	O ID 1/3	
AK909	716	<b>Functional Group Syntax Error Code</b> Code indicating error found based on the syntax editing of the functional group header and/or trailer Refer to 004010VICS Data Element Dictionary for acceptable code values.	O ID 1/3	



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

**Data Element Summary**

<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Base Attributes</u>	<u>User Attributes</u>
SE01	96	<b>Number of Included Segments</b>	M N0 1/10	M
		Total number of segments included in a transaction set including ST and SE segments		
SE02	329	<b>Transaction Set Control Number</b>	M AN 4/9	M
		Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set		