

# 997 Functional Acknowledgment

Revised: August 2, 2000

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
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. 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 acknowledgment for a functional group. There shall be one AK1 segment for the functional group that is being acknowledged.

**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:**

```
*****
Sample ST Segment
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ST*997*0001
*****
```

**Data Element Summary**

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
M	ST01	143	<b>Transaction Set Identifier Code</b> Code uniquely identifying a Transaction Set Refer to 004010 Data Element Dictionary for acceptable code values.	M ID 3/3
M	ST02	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

**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 functional group control number found in the GS segment in the functional group being acknowledged.

**Comments:**

**Notes:**

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Sample AK1 Segment

AK1\*PO\*1

\*\*\*\*\*

**Data Element Summary**

	<b>Ref.</b>	<b>Data</b>	<b>Name</b>	<b>Attributes</b>
	<b>Des.</b>	<b>Element</b>		
<b>M</b>	<b>AK101</b>	<b>479</b>	<b>Functional Identifier Code</b> Code identifying a group of application related transaction sets Refer to 004010 Data Element Dictionary for acceptable code values.	<b>M ID 2/2</b>
<b>M</b>	<b>AK102</b>	<b>28</b>	<b>Group Control Number</b> Assigned number originated and maintained by the sender	<b>M N0 1/9</b>

**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 contains the value "A" or "E", then the transmitted functional group is accepted.

**Notes:** \*\*\*\*\*

Sample AK9 Segment

AK9\*A\*2\*1\*1

\*\*\*\*\*

**Data Element Summary**

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
M	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. M Rejected, Message Authentication Code (MAC) Failed P Partially Accepted, At Least One Transaction Set Was Rejected R Rejected W Rejected, Assurance Failed Validity Tests X Rejected, Content After Decryption Could Not Be Analyzed	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
	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 Refer to 004010 Data Element Dictionary for acceptable code values.	O ID 1/3

- 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 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: 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:** \*\*\*\*\*

Sample SE Segment

SE\*123\*0001

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**Data Element Summary**

	<b>Ref.</b>	<b>Data</b>	<b>Name</b>	<b>Attributes</b>
	<b>Des.</b>	<b>Element</b>		
M	SE01	96	<b>Number of Included Segments</b> Total number of segments included in a transaction set including ST and SE segments	M N0 1/10
M	SE02	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