

997 Functional Acknowledgment

Functional Group ID=**FA**

Introduction:

This X12 Transaction Set 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>
Must Use	0100	ST	Transaction Set Header	M	1		n1
Must Use	0200	AK1	Functional Group Response Header	M	1		n2
			LOOP ID - AK2			999999	
	0300	AK2	Transaction Set Response Header	O	1		n3
			LOOP ID - AK3			999999	
	0400	AK3	Data Segment Note	O	1		c1
	0500	AK4	Data Element Note	O	99		
Must Use	0600	AK5	Transaction Set Response Trailer	M	1		
Must Use	0700	AK9	Functional Group Response Trailer	M	1		
Must Use	0800	SE	Transaction Set Trailer	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 acknowledgment for a functional group. There shall be one AK1 segment for the functional group that is being acknowledged.
 The Functional Acknowledgment is generated at the point of translation, intended for the originator (not any intermediate parties).
- AK2 is used to start the acknowledgment 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 or proper subsets of 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: 0100
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).
- 2 The implementation convention reference (ST03) is used by the translation routines of the interchange partners to select the appropriate implementation convention to match the transaction set definition. When used, this implementation convention reference takes precedence over the implementation reference specified in the GS08.

Comments:

Data Element Summary

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
Must Use	ST01	143	Transaction Set Identifier Code Code uniquely identifying a Transaction Set 997 Functional Acknowledgment	M 1 ID 3/3
Must Use	ST02	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 1 AN 4/9
	ST03	1705	Implementation Convention Reference Reference assigned to identify Implementation Convention	O 1 AN 1/35

Segment: **AK1** **Functional Group Response Header**
Position: 0200
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.
- 3 AK103 is the version release industry identifier code in the GS segment (GS08) in the functional group being acknowledged.

Comments:

Data Element Summary

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
Must Use	AK101	479	Functional Identifier Code Code identifying a group of application related transaction sets	M 1 ID 2/2
Must Use	AK102	28	Group Control Number Assigned number originated and maintained by the sender	M 1 N0 1/9
	AK103	480	Version / Release / Industry Identifier Code 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 Refer to 004050 Data Element Dictionary for acceptable code values.	O 1 AN 1/12

Segment: **AK2** Transaction Set Response Header
Position: 0300
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.
- 3 AK203 is the implementation convention reference, if any, found in the ST segment (ST03) in the transaction set being acknowledged.

Comments:

Data Element Summary

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
Must Use	AK201	143	Transaction Set Identifier Code Code uniquely identifying a Transaction Set	M 1 ID 3/3
Must Use	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 1 AN 4/9
	AK203	1705	Implementation Convention Reference Reference assigned to identify Implementation Convention	O 1 AN 1/35

Segment: **AK3** Data Segment Note
Position: 0400
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:

Data Element Summary

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
Must Use	AK301	721	Segment ID Code Code defining the segment ID of the data segment in error (See Appendix A - Number 77)	M 1 ID 2/3
Must Use	AK302	719	Segment Position in Transaction Set The numerical count position of this data segment from the start of the transaction set: the transaction set header is count position 1	M 1 N0 1/6
	AK303	447	Loop Identifier Code The loop ID number given on the transaction set diagram is the value for this data element in segments LS and LE	O 1 AN 1/4
	AK304	720	Segment Syntax Error Code Code indicating error found based on the syntax editing of a segment	O 1 ID 1/3
		1	Unrecognized segment ID	
		2	Unexpected segment	
		3	Mandatory segment missing	
		4	Loop Occurs Over Maximum Times	
		5	Segment Exceeds Maximum Use	
		6	Segment Not in Defined Transaction Set	
		7	Segment Not in Proper Sequence	
		8	Segment Has Data Element Errors	

Segment: **AK4** Data Element Note
Position: 0500
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 case shall a value be used for AK404 that would generate a syntax error, e.g., an invalid character.

Comments:

Data Element Summary

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
Must Use	AK401	C030	Position in Segment Code indicating the relative position of the simple data element or composite data structure in error within a segment, count beginning with 1 for the position immediately following the segment ID; additionally indicating the relative position of a repeating structure in error, count beginning with 1 for the position immediately following the preceding element separator; additionally indicating the relative position of a component of a composite data structure in error, count beginning with 1 for the position following the preceding element or repetition separator	M 1
Must Use	C03001	722	Element Position in Segment 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	M N0 1/2
	C03002	1528	Component Data Element Position in Composite To identify the component data element position within the composite that is in error	O N0 1/2
	C03003	1686	Repeating Data Element Position To identify the specific repetition of a data element that is in error	O N0 1/4
	AK402	725	Data Element Reference Number Reference number used to locate the data element in the Data Element Dictionary	O 1 N0 1/4
Must Use	AK403	723	Data Element Syntax Error Code Code indicating the error found after syntax edits of a data element Refer to 004050 Data Element Dictionary for acceptable code values.	M 1 ID 1/3
	AK404	724	Copy of Bad Data Element This is a copy of the data element in error	O 1 AN 1/99

Segment: **AK5** Transaction Set Response Trailer
Position: 0600
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:

Data Element Summary

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
Must Use	AK501	717	Transaction Set Acknowledgment Code Code indicating accept or reject condition based on the syntax editing of the transaction set Refer to 004050 Data Element Dictionary for acceptable code values.	M 1 ID 1/1
	AK502	718	Transaction Set Syntax Error Code Code indicating error found based on the syntax editing of a transaction set Refer to 004050 Data Element Dictionary for acceptable code values.	O 1 ID 1/3
	AK503	718	Transaction Set Syntax Error Code Code indicating error found based on the syntax editing of a transaction set Refer to 004050 Data Element Dictionary for acceptable code values.	O 1 ID 1/3
	AK504	718	Transaction Set Syntax Error Code Code indicating error found based on the syntax editing of a transaction set Refer to 004050 Data Element Dictionary for acceptable code values.	O 1 ID 1/3
	AK505	718	Transaction Set Syntax Error Code Code indicating error found based on the syntax editing of a transaction set Refer to 004050 Data Element Dictionary for acceptable code values.	O 1 ID 1/3
	AK506	718	Transaction Set Syntax Error Code Code indicating error found based on the syntax editing of a transaction set Refer to 004050 Data Element Dictionary for acceptable code values.	O 1 ID 1/3

Segment: **AK9** **Functional Group Response Trailer**
Position: 0700
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.

Data Element Summary

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
Must Use	AK901	715	Functional Group Acknowledge Code Code indicating accept or reject condition based on the syntax editing of the functional group Refer to 004050 Data Element Dictionary for acceptable code values.	M 1 ID 1/1
Must Use	AK902	97	Number of Transaction Sets Included Total number of transaction sets included in the functional group or interchange (transmission) group terminated by the trailer containing this data element	M 1 N0 1/6
Must Use	AK903	123	Number of Received Transaction Sets Number of Transaction Sets received	M 1 N0 1/6
Must Use	AK904	2	Number of Accepted Transaction Sets Number of accepted Transaction Sets in a Functional Group	M 1 N0 1/6
	AK905	716	Functional Group Syntax Error Code Code indicating error found based on the syntax editing of the functional group header and/or trailer Refer to 004050 Data Element Dictionary for acceptable code values.	O 1 ID 1/3
	AK906	716	Functional Group Syntax Error Code Code indicating error found based on the syntax editing of the functional group header and/or trailer Refer to 004050 Data Element Dictionary for acceptable code values.	O 1 ID 1/3
	AK907	716	Functional Group Syntax Error Code Code indicating error found based on the syntax editing of the functional group header and/or trailer Refer to 004050 Data Element Dictionary for acceptable code values.	O 1 ID 1/3
	AK908	716	Functional Group Syntax Error Code Code indicating error found based on the syntax editing of the functional group header and/or trailer Refer to 004050 Data Element Dictionary for acceptable code values.	O 1 ID 1/3
	AK909	716	Functional Group Syntax Error Code Code indicating error found based on the syntax editing of the functional group header and/or trailer Refer to 004050 Data Element Dictionary for acceptable code values.	O 1 ID 1/3

Segment: **SE** Transaction Set Trailer
Position: 0800
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.

Data Element Summary

	Ref.	Data		Attributes
	Des.	Element	Name	
Must Use	SE01	96	Number of Included Segments Total number of segments included in a transaction set including ST and SE segments	M 1 N0 1/10
Must Use	SE02	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 1 AN 4/9