

997 Functional Acknowledgment

This standard provides the format and establishes the data contents of a functional acknowledgment transaction set. The purpose of this standard is 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.

Table 1

PAGE #	POS. #	SEG. ID	NAME	REQ. DES.	MAX USE	LOOP REPEAT
396	010	ST	Transaction Set Header	M	1	
397	020	AK1	Functional Group Response Header	M	1	
		LOOP ID - AK2				999999
398	030	AK2	Transaction Set Response Header	O	1	
		LOOP ID - AK2/AK3				999999
399	040	AK3	Data Segment Note	O	1	
401	050	AK4	Data Element Note	O	99	
402	060	AK5	Transaction Set Response Trailer	M	1	
403	070	AK9	Functional Group Response Trailer	M	1	
405	080	SE	Transaction Set Trailer	M	1	

SEGMENT: **ST** Transaction Set Header
 LEVEL: Header
 LOOP: _____
 USAGE: Mandatory
 MAX USE: 1
 PURPOSE: To indicate the start of a transaction set and to assign a control number
 COMMENTS: **A** The transaction set identifier (ST01) is intended for use by the translation routines of the interchange partners to select the appropriate transaction set definition (e.g., 810 selects the invoice transaction set).

Data Element Summary

REF. DES.	DATA ELEMENT	NAME	ATTRIBUTES
ST01	143	Transaction Set Identifier Code Code uniquely identifying a Transaction Set.	M ID 3/3
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ST02	329	Transaction Set Control Number Identifying control number assigned by the originator for a transaction set.	M AN 4/9
Use system generated transaction number.			

SEGMENT: **AK1** Functional Group Response Header

LEVEL: Header

LOOP: _____

USAGE: Mandatory

MAX USE: 1

PURPOSE: To start acknowledgment of a functional group.

COMMENTS: **A** AK102 is the data interchange control number found in the GS segment in the functional group being acknowledged.

Data Element Summary

REF. DES.	DATA ELEMENT	NAME	ATTRIBUTES
AK101	479	Functional Identifier Code Code identifying a group of application related Transaction Sets.	M ID 2/2
		IN Invoice Information (810,,819)	
		RA Payment Order/Remittance Advice (820)	
		SC Price/Sales Catalog (832)	
		SH Ship Notice/Manifest (856)	
AK102	28	Group Control Number Assigned number originated and maintained by the sender.	M NO 1/9

SEGMENT: **AK2** Transaction Set Response Header

LEVEL: Header

LOOP: AK2 REPEAT: 999999

USAGE: Optional

MAX USE: 1

PURPOSE: To start acknowledgment of a single transaction set.

COMMENTS: **A** AK202 is the transaction set control number found in the ST segment in the transaction set being acknowledged.

Data Element Summary

REF. DES.	DATA ELEMENT	NAME	ATTRIBUTES
AK201	143	Transaction Set Identifier Code Code uniquely identifying a Transaction Set.	M ID 3/3
		810 X12.2 Invoice	
		820 X12.4 Remittance/Payment Advice	
		832 X12.13 Price/Sales Catalog	
		856 X12.10 Ship Notice/Manifest	
AK202	329	Transaction Set Control Number Identifying control number assigned by the originator for a transaction set.	M AN 4/9

SEGMENT: **AK3** Data Segment Note
 LEVEL: Header
 LOOP: AK2/AK3 REPEAT: 999999
 USAGE: Optional
 MAX USE: 1
 PURPOSE: To report errors in a data segment and to identify the location of the data segment.

Data Element Summary

REF. DES.	DATA ELEMENT	NAME	ATTRIBUTES
AK301	721	Segment ID Code Code defining the segment ID of the data segment in error. See Appendix A - Number 77.	M ID 2/3
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 NO 1/6
AK303	447	Loop Identifier Code Code identifying a loop within the transaction set which is bounded by the related LS and LE segments (corresponding LS and LE segments must have the same value for loop identifier). (Note: The loop ID number given on the transaction set diagram is recommended as the value for this data element in segments LS and LE.)	O ID 1/4
AK304	720	Segment Syntax Error Code Code indicating error found based on the syntax editing of a segment	O 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	
AK305	720	Segment Syntax Error Code Code indicating error found based on the syntax editing of a segment See AK304 for code list.	O ID 1/3
AK306	720	Segment Syntax Error Code Code indicating error found based on the syntax editing of a segment See AK304 for code list.	O ID 1/3
AK307	720	Segment Syntax Error Code Code indicating error found based on the syntax editing of a segment See AK304 for code list.	O ID 1/3

AK308 720 **Segment Syntax Error Code** O ID 1/3
Code indicating error found based on the syntax editing of a segment

See AK304 for code list.

SEGMENT: **AK4** Data Element Note
 LEVEL: Header
 LOOP: AK2/AK3
 USAGE: Optional
 MAX USE: 99
 PURPOSE: To report errors in a data element and to identify the location of the data element.

Data Element Summary

REF. DES.	DATA ELEMENT	NAME	ATTRIBUTES
AK401	722	Element Position in Segment 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.	M NO 1/2
AK402	725	Data Element Reference Number Reference number used to locate the Data Element Dictionary.	O NO 1/4
AK403	723	Data Element Syntax Error Code Code indicating the error found after syntax edits of a data element.	M ID 1/3
		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.	
		8 Invalid Date	
		9 Invalid Time	
AK404	724	Copy of Bad Data Element This is a copy of the data element in error.	O AN 1/99

SEGMENT: **AK5** Transaction Set Response Trailer
 LEVEL: Header
 LOOP: AK2
 USAGE: Mandatory
 MAX USE: 1
 PURPOSE: To acknowledge acceptance or rejection and to report errors in a transaction set.

Data Element Summary

REF. DES.	DATA ELEMENT	NAME	ATTRIBUTES
AK501	717	Transaction Set Acknowledgment Code Code indicating accept or reject condition based on the syntax editing of the transaction set.	M ID 1/1
		A Accepted	
		E Accepted But Errors Were Noted	
		R Rejected	
AK502	718	Transaction Set Syntax Error Code Code indicating error found based on the syntax editing of a transaction set.	O ID 1/3
		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	
		6 Missing or Invalid Transaction Set Identifier	
		7 Missing or Invalid Transaction Set Control Number	
AK503	718	Transaction Set Syntax Error Code Code indicating error found based on the syntax editing of a transaction set.	O ID 1/3
		See AK502 for code list.	
AK504	718	Transaction Set Syntax Error Code Code indicating error found based on the syntax editing of a transaction set.	O ID 1/3
		See AK502 for code list.	
AK505	718	Transaction Set Syntax Error Code Code indicating error found based on the syntax editing of a transaction set.	O ID 1/3
		See AK502 for code list.	
AK506	718	Transaction Set Syntax Error Code Code indicating error found based on the syntax editing of a transaction set.	O ID 1/3
		See AK502 for code list.	

SEGMENT: **AK9** Functional Group Response Trailer
 LEVEL: Header
 LOOP: _____
 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: **A** If AK901 is 'A' or 'E', then the transmitted functional group is accepted. If AK901 is 'R', then the transmitted group is rejected.

Data Element Summary

REF. DES.	DATA ELEMENT	NAME	ATTRIBUTES
AK901	715	Functional Group Acknowledge Code Code indicating accept or reject condition based on the syntax editing of the functional group.	M ID 1/1
		A Accepted	
		E Accepted, But Errors Were Noted.	
		P Partially Accepted, At Least One Transaction Set Was Rejected	
		R Rejected	
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 NO 1/6
AK903	123	Number of Received Transaction Sets Number of Transaction Sets received.	M NO 1/6
AK904	2	Number of Accepted Transaction Sets Number of accepted Transaction Sets in a Functional Group.	M NO 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.	O ID 1/3
		1 Functional Group Not Supported	
		2 Functional Group Version Not Supported	
		3 Functional Group Trailer Missing	
		4 Data Interchange Control Number in the Functional Group Header and Trailer Do Not Agree	
		5 Number of Included Transaction Sets Does Not Match Actual Count	

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.

See AK509 for code list.

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.

See AK509 for code list.

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.

See AK509 for code list.

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.

See AK509 for code list.

SEGMENT: **SE** Transaction Set Trailer
 LEVEL: Header
 LOOP: _____
 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: **A** SE is the last segment of each transaction set.

Data Element Summary

REF. DES.	DATA ELEMENT	NAME	ATTRIBUTES		
SE01	96	Number of Included Segments Total number of segments included in a transaction set including ST and SE segments.	M	NO	1/6
SE02	329	Transaction Set Control Number Identifying control number assigned by the originator for a transaction set.	M	AN	4/9

