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.

	Pos. No.	Seg. ID	Name	Req. Des.	Max.Use	Loop Repeat	Notes and Comments
Must Use	010	ST	Transaction Set Header	M	1		n1
Must Use	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		
Must Use	060	AK5	Transaction Set Response Trailer	M	1		
Must Use	070	AK9	Functional Group Response Trailer	M	1		
Must Use	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 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

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
Must Use	ST01	143	**Transaction Set Identifier Code**	M ID 3/3
			Code uniquely identifying a Transaction Set	
Must Use	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	

New Hampshire EDI GUIDELINES

Segment:	**AK1** Functional Group Response Header	
Position:	020	
Loop:		
Level:		
Usage:	Mandatory	
Max Use:	1	
Purpose:	To start acknowledgment of a functional group	

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
Must Use	AK101	479	**Functional Identifier Code**	M ID 2/2
			Code identifying a group of application related transaction sets	
Must Use	AK102	28	**Group Control Number**	M N0 1/9
			Assigned number originated and maintained by the sender	

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	

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
Must Use	AK201	143	**Transaction Set Identifier Code** Code uniquely identifying a Transaction Set	M 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 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

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
Must Use	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)	
Must Use	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 1/6
			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	

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

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
Must Use	**AK401**	**C030**	**Position in Segment**	**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

Must Use	**C03001**	**722**	**Element Position in Segment**	**M N0 1/2**

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

	C03002	**1528**	**Component Data Element Position in Composite**	**O N0 1/2**

To identify the component data element position within the composite that is in error

	AK402	**725**	**Data Element Reference Number**	**O N0 1/4**

Reference number used to locate the data element in the Data Element Dictionary

Must Use	**AK403**	**723**	**Data Element Syntax Error Code**	**M ID 1/3**

Code indicating the error found after syntax edits of a data element

	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:	Mandatory	
Max Use:	1	
Purpose:	To acknowledge acceptance or rejection and report errors in a transaction set	

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
Must Use	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	
	AK502	718	**Transaction Set Syntax Error Code**	**O ID 1/3**
			Code indicating error found based on the syntax editing of a transaction set	
	AK503	718	**Transaction Set Syntax Error Code**	**O ID 1/3**
			Code indicating error found based on the syntax editing of a transaction set	
	AK504	718	**Transaction Set Syntax Error Code**	**O ID 1/3**
			Code indicating error found based on the syntax editing of a transaction set	
	AK505	718	**Transaction Set Syntax Error Code**	**O ID 1/3**
			Code indicating error found based on the syntax editing of a transaction set	
	AK506	718	**Transaction Set Syntax Error Code**	**O ID 1/3**
			Code indicating error found based on the syntax editing of a transaction set	

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		

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
Must Use	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	
Must Use	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	
Must Use	AK903	123	**Number of Received Transaction Sets**	M N0 1/6
			Number of Transaction Sets received	
Must Use	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	
	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	
	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	
	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	
	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	

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)

Data Element Summary

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