997 Functional Acknowledgment

Functional Group ID= ${\bf F}{\bf A}$

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.

Page No. 2	Pos. <u>No.</u> 010	Seg. <u>ID</u> ST	<u>Name</u> Transaction Set Header	Req. <u>Des.</u> M	Max.Use	Loop <u>Repeat</u>	Notes and Comments n1
3	020	AK1	Functional Group Response Header	M	1		n2
			LOOP ID - AK2			999999	
4	030	AK2	Transaction Set Response Header	О	1		n3
5	060	AK5	Transaction Set Response Trailer	M	1		
6	070	AK9	Functional Group Response Trailer	M	1		
7	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.

P9974010 (004010) June 29, 1998

Segment: ST Transaction Set Header

Position: 010

Loop:

Level:

Usage: Mandatory

Max Use:

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) 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:

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

Segment: AK1 Functional Group Response Header

Position: 020

Loop:

Level:

Usage: Mandatory

Max Use:

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:

	Ref.	Data			
	Des.	Element	<u>Name</u>	Att	<u>ributes</u>
>>	AK101	479	Functional Identifier Code	M	ID 2/2
			Code identifying a group of application related transaction	sets	
>>	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:

To start acknowledgment of a single transaction set

Purpose: 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.

Comments:

	Ref.	Data			
	Des.	Element	<u>Name</u>	Att	<u>ributes</u>
>>	AK201	143	Transaction Set Identifier Code Code uniquely identifying a Transaction Set	M	ID 3/3
>>	AK202	329	Transaction Set Control Number Identifying control number that must be unique within the tfunctional group assigned by the originator for a transaction		AN 4/9 ction set

Segment: AK5 Transaction Set Response Trailer

Position: 060

Loop: AK2 Optional

Level:

Usage: Mandatory

Max Use:

Purpose: To acknowledge acceptance or rejection and report errors in a transaction set

Syntax Notes: Semantic Notes: Comments:

	Ref.	Data		·	
	Des.	Element	<u>Name</u>		Attributes
>>	AK501	717	Transaction Set A	cknowledgment Code	M ID 1/1
			Code indicating acc	cept or reject condition based on the syn	tax editing of the
			transaction set		
			A	Accepted	
			E	Accepted But Errors Were Noted	
			M	Rejected, Message Authentication Coo	de (MAC) Failed
			R	Rejected	
			W	Rejected, Assurance Failed Validity T	ests
			X	Rejected, Content After Decryption Conalyzed	ould Not Be

Segment: **AK9** Functional Group Response Trailer Position: 070

Loop:

Level:

Usage: Mandatory

Max Use:

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.

	Ref.	Data		<i></i>		
	Des.	Element	<u>Name</u>		Attı	<u>ributes</u>
>>	AK901	715	Functional Group	Acknowledge Code	M	ID 1/1
			Code indicating acc	cept or reject condition based on the sym	tax ed	liting of the
			functional group			
			A	Accepted		
			E	Accepted, But Errors Were Noted.		
			M	Rejected, Message Authentication Coo	de (M	AC) Failed
			P	Partially Accepted, At Least One Tran	sactio	on Set Was
				Rejected		
			R	Rejected		
			W	Rejected, Assurance Failed Validity T	ests	
			X	Rejected, Content After Decryption Conalyzed	ould 1	Not Be
>>	AK902	97	Number of Transa	action Sets Included	M	N0 1/6
			Total number of tra	nsaction sets included in the functional	group	or
			interchange (transmelement	nission) group terminated by the trailer c	ontaiı	ning this data
>>	AK903	123	Number of Receiv	ed Transaction Sets	M	N0 1/6
			Number of Transac	tion Sets received		
>>	AK904	2	Number of Accept	ed Transaction Sets	M	N0 1/6
			Number of accepted	d Transaction Sets in a Functional Group)	

Segment: \mathbf{SE} Transaction Set Trailer

Position: 080

Loop:

Level: Usage: Mandatory

Max Use:

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.

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

John Deere Guideline for EDI 997 Functional Acknowledgment-Sending Based on AIAG Implementation Guideline - Version 4010

Sample EDI Transmission

00 *01*005289806 *01*305678132 *980630*0813*U*00401*000000013*0*P*> ISA*00* GS*FA*005298806*305678132*19980630*0813*13*X*004010 ST*997*0013 AK1*SH*13 AK9*A*2*2*2 SE*4*0013 GE*1*13 IEA*1*000000013