



EDI Specifications
Version 4010 / Transaction Set 997
Functional Acknowledgement

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.

<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>
010	ST	Transaction Set Header	M	1		n1
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		
060	AK5	Transaction Set Response Trailer	M	1		
070	AK9	Functional Group Response Trailer	M	1		
080	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 acknowledgement for a functional group. There shall be one AK1 segment for the functional group that is being acknowledged.
- 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

- 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).



EDI Specifications
Version 4010 / Transaction Set 997
Functional Acknowledgment

ISA**Interchange Control Header**

Pos: Max: 1
 - Mandatory
 Loop: N/A Elements: 16

To start and identify an interchange of zero or more functional groups and interchange-related control segments

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
ISA01	I01	Authorization Information Qualifier Description: Code to identify the type of information in the Authorization Information	M	ID	2/2	Must use
		<u>Code</u> <u>NAME</u> 00 No Authorization Information Present (No Meaningful Information in I02)				
ISA02	I02	Authorization Information Description: Information used for additional identification or authorization of the interchange sender or the data in the interchange; the type of information is set by the Authorization Information Qualifier (I01)	M	AN	10/10	Must use
ISA03	I03	Security Information Qualifier Description: Code to identify the type of information in the Security Information	M	ID	2/2	Must use
		<u>Code</u> <u>NAME</u> 00 No Security Information Present (No Meaningful Information in I04)				
ISA04	I04	Security Information Description: This is used for identifying the security information about the interchange sender or the data in the interchange; the type of information is set by the Security Information Qualifier (I03)	M	AN	10/10	Must use
ISA05	I05	Interchange ID Qualifier Description: Qualifier to designate the system/method of code structure used to designate the sender or receiver ID element being qualified	M	ID	2/2	Must use
		<u>Code</u> <u>NAME</u> 01 Duns (Dun & Bradstreet) 02 SCAC (Standard Carrier Alpha Code)				
ISA06	I06	Interchange Sender ID Description: Identification code published by the sender for other parties to use as the receiver ID to route data to them; the sender always codes this value in the sender ID element	M	AN	15/15	Must use
ISA07	I05	Interchange ID Qualifier Description: Qualifier to designate the system/method of code structure used to designate the sender or receiver ID element being qualified	M	ID	2/2	Must use
		<u>Code</u> <u>NAME</u> 01 Duns (Dun & Bradstreet) ZZ Mutually Defined				
ISA08	I07	Interchange Receiver ID Description: Identification code published by the receiver of the data; When sending, it is used by the sender as their sending ID, thus other parties sending to them will use this as a receiving ID to route data to them	M	AN	15/15	Must use
ISA09	I08	Interchange Date Description: Date of the interchange	M	DT	6/6	Must use
ISA10	I09	Interchange Time	M	TM	4/4	Must use

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
		Description: Time of the interchange				
ISA11	I10	Interchange Control Standards Identifier Description: Code to identify the agency responsible for the control standard used by the message that is enclosed by the interchange header and trailer <u>Code</u> <u>NAME</u> U U.S. EDI Community of ASC X12	M	ID	1/1	Must use
ISA12	I11	Interchange Control Version Number Description: This version number covers the interchange control segments <u>Code</u> <u>NAME</u> 00401 Draft Standards for Trial Use Approved for Publication by ASC X12 Procedures Review Board through October 1997	M	ID	5/5	Must use
ISA13	I12	Interchange Control Number Description: A control number assigned by the interchange sender	M	N0	9/9	Must use
ISA14	I13	Acknowledgment Requested Description: Code sent by the sender to request an interchange acknowledgment (TA1) <u>Code</u> <u>NAME</u> 0 No Acknowledgment Requested	M	ID	1/1	Must use
ISA15	I14	Usage Indicator Description: Code to indicate whether data enclosed by this interchange envelope is test, production or information <u>Code</u> <u>NAME</u> P Production Data	M	ID	1/1	Must use
ISA16	I15	Component Element Separator Description: Type is not applicable; the component element separator is a delimiter and not a data element; this field provides the delimiter used to separate component data elements within a composite data structure; this value must be different than the data element separator and the segment terminator	M		1/1	Must use

GS**Functional Group Header**

Pos:	Max: 1
- Mandatory	
Loop: N/A	Elements: 8

To indicate the beginning of a functional group and to provide control information

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
GS01	479	Functional Identifier Code Description: Code identifying a group of application related transaction sets <u>Code NAME</u> FA Functional Acknowledgment (997)	M	ID	2/2	Must use
GS02	142	Application Sender's Code Description: Code identifying party sending transmission; codes agreed to by trading partners	M	AN	2/15	Must use
GS03	124	Application Receiver's Code Description: Code identifying party receiving transmission. Codes agreed to by trading partners Carrier SCAC	M	AN	2/15	Must use
GS04	373	Date Description: Date expressed as CCYYMMDD	M	DT	8/8	Must use
GS05	337	Time Description: Time expressed in 24-hour clock time as follows: HHMM, or HHMMSS, or HHMMSSD, or HHMMSSDD, where H = hours (00-23), M = minutes (00-59), S = integer seconds (00-59) and DD = decimal seconds; decimal seconds are expressed as follows: D = tenths (0-9) and DD = hundredths (00-99)	M	TM	4/8	Must use
GS06	28	Group Control Number Description: Assigned number originated and maintained by the sender	M	N0	1/9	Must use
GS07	455	Responsible Agency Code Description: Code used in conjunction with Data Element 480 to identify the issuer of the standard <u>Code NAME</u> X Accredited Standards Committee X12	M	ID	1/2	Must use
GS08	480	Version / Release / Industry Identifier Code Description: 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). <u>Code NAME</u> 004010 Draft Standards Approved for Publication by ASC X12 Procedures Review Board through October 1997	M	AN	1/12	Must use

Semantics:

- GS04 is the group date.
- GS05 is the group time.
- The data interchange control number GS06 in this header must be identical to the same data element in the associated functional group trailer, GE02.

Comments:

- A functional group of related transaction sets, within the scope of X12 standards, consists of a collection of similar transaction sets enclosed by a functional group header and a functional group trailer.

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: Example segment
 ST*997*000006140

Data Element Summary

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
ST01	143	Transaction Set Identifier Code Description: Code uniquely identifying a Transaction Set <u>Code NAME</u> 997 Functional Acknowledgment	M	ID	3/3	Must use
ST02	329	Transaction Set Control Number Description: 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	Must use

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: Example segment
AK1*IM*1234
where the functional group being acknowledged contained:
GS*IM*<sender>*<receiver>*<date>*<time>*1234*X*004010

Data Element Summary

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
AK101	479	Functional Identifier Code Code identifying a group of application related transaction sets	M	ID	2/2	Must use
		<u>Code</u> <u>NAME</u>				
		SI Shipment Information (858)				
		IA Air Freight Details and Invoice (110, 980)				
		IM Motor Carrier Freight Details and Invoice (210, 980)				
		QM Transportation Carrier Shipment Status Message (214)				
		IO Ocean Shipment Billing Details (310, 312, 980)				
		IR Rail Carrier Freight Details and Invoice (410, 980)				
		PO Purchase Order (850)				
AK102	28	Group Control Number Assigned number originated and maintained by the sender. The AK102 contains the GS06 data element value from the functional group that is being acknowledged.	M	N0	1/9	Must use

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
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: Example segment
AK2*210*000003087
where the transaction set being acknowledged contained: ST*210*000003087

Data Element Summary

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
AK201	143	Transaction Set Identifier Code Code uniquely identifying a Transaction Set The AK201 contains the ST01 data element value from the transaction set that is being acknowledged.	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. The AK202 contains the ST02 data element value from the transaction set that is being acknowledged.	M	AN	4/9	Must use

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
Syntax Notes:
Semantic Notes:
Comments: Example segment
 AK3*B3*2**3
 where the transaction set being acknowledged did not contain the required B3 segment.

Data Element Summary

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
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	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	N0	1/6	Must use
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	AN	1/6	Used
AK304	720	Segment Syntax Error Code Code indicating error found based on the syntax editing of a segment	O	ID	1/3	Used
		<u>Code</u> <u>NAME</u>				
		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: 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

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: Example segment
 AK4*2*76*1
 where the transaction set being acknowledged did not contain the required B302 element.

Data Element Summary

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
AK401	C030	Position in Segment 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	M			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	Must use
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	Used
AK402	725	Data Element Reference Number Reference number used to locate the data element in the Data Element Dictionary	O	N0	1/4	Used
AK403	723	Data Element Syntax Error Code Code indicating the error found after syntax edits of a data element	M	ID	1/3	Must use
		<u>Code</u> <u>NAME</u>				
		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				
		10 Exclusion Condition Violated				
AK404	724	Copy of Bad Data Element This is a copy of the data element in error	O	AN	1/99	Used

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
Syntax Notes:
Semantic Notes:
Comments: Example segments
 AK5*A (Accepted)
 AK5*R*5 (Rejected; One or More Segments in Error)

Data Element Summary

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
AK501	717	Transaction Set Acknowledgment Code	M	ID	1/1	Must use
		Code indicating accept or reject condition based on the syntax editing of the transaction set				
		<u>Code NAME</u>				
		A				Accepted
		E				Accepted But Errors Were Noted
		M				Rejected, Message Authentication Code (MAC) Failed
		R				Rejected
		W				Rejected, Assurance Failed Validity Tests
		X				Rejected, Content After Decryption Could Not Be Analyzed
AK502	718	Transaction Set Syntax Error Code	O	ID	1/3	Used
		Code indicating error found based on the syntax editing of a transaction set				
		<u>Code NAME</u>				
		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
		8				Authentication Key Name Unknown
		9				Encryption Key Name Unknown
		10				Requested Service (Authentication or Encrypted) Not Available
		11				Unknown Security Recipient
		12				Incorrect Message Length (Encryption Only)
		13				Message Authentication Code Failed
		15				Unknown Security Originator
		16				Syntax Error in Decrypted Text
		17				Security Not Supported
		19				S1E Security End Segment Missing for S1S Security Start Segment
		20				S1S Security Start Segment Missing for S1E Security End Segment
		21				S2E Security End Segment Missing for S2S Security Start Segment
		22				S2S Security Start Segment Missing for S2E Security End Segment
		23				Transaction Set Control Number Not Unique within the Functional Group
		24				S3E Security End Segment Missing for S3S Security Start Segment
		25				S3S Security Start Segment Missing for S3E Security End Segment
		26				S4E Security End Segment Missing for S4S Security Start Segment
		27				S4S Security Start Segment Missing for S4E Security End Segment
AK503	718	Transaction Set Syntax Error Code	O	ID	1/3	Used
		Code indicating error found based on the syntax editing of a transaction set				
AK504	718	Transaction Set Syntax Error Code	O	ID	1/3	Used

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
		Code indicating error found based on the syntax editing of a transaction set				
AK505	718	Transaction Set Syntax Error Code	O	ID	1/3	Used
		Code indicating error found based on the syntax editing of a transaction set				
AK506	718	Transaction Set Syntax Error Code	O	ID	1/3	Used
		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

Syntax Notes:
Semantic Notes:

Comments: 1 If AK901 contains the value "A" or "E", then the transmitted functional group is accepted.
 Example segment
 AK9*P*15*15*9 (Partially Accepted - 15 transaction sets received and 9 were accepted)

Data Element Summary

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
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	Must use
		<u>Code</u> <u>NAME</u>				
		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				
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	N0	1/6	Must use
AK903	123	Number of Received Transaction Sets Number of Transaction Sets received	M	N0	1/6	Must use
AK904	2	Number of Accepted Transaction Sets Number of accepted Transaction Sets in a Functional Group	M	N0	1/6	Must use
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	Used
		<u>Code</u> <u>NAME</u>				
		1 Functional Group Not Supported				
		2 Functional Group Version Not Supported				
		3 Functional Group Trailer Missing				
		4 Group Control Number in the Functional Group Header and Trailer Do Not Agree				
		5 Number of Included Transaction Sets Does Not Match Actual Count				
		6 Group Control Number Violates Syntax				
		10 Authentication Key Name Unknown				
		11 Encryption Key Name Unknown				
		12 Requested Service (Authentication or Encryption) Not Available				
		13 Unknown Security Recipient				
		14 Unknown Security Originator				
		15 Syntax Error in Decrypted Text				
		16 Security Not Supported				
		17 Incorrect Message Length (Encryption Only)				
		18 Message Authentication Code Failed				
		19 S1E Security End Segment Missing for S1S Security Start Segment				
		20 S1S Security Start Segment Missing for S1E End Segment				
		21 S2E Security End Segment Missing for S2S Security Start Segment				

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
	22	S2S Security Start Segment Missing for S2E Security End Segment				
	23	S3E Security End Segment Missing for S3S Security Start Segment				
	24	S3S Security Start Segment Missing for S3E End Segment				
	25	S4E Security End Segment Missing for S4S Security Start Segment				
	26	S4S Security Start Segment Missing for S4E Security End Segment				
AK906	716	Functional Group Syntax Error Code	O	ID	1/3	Used
		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	Used
		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	Used
		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	Used
		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)

Syntax Notes:**Semantic Notes:**

Comments: 1 SE is the last segment of each transaction set.
 Example segment
 SE*8*000006140

Data Element Summary

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
SE01	96	Number of Included Segments Description: Total number of segments included in a transaction set including ST and SE segments	M	N0	1/10	Must use
SE02	329	Transaction Set Control Number Description: 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	Must use

GE**Functional Group Trailer**

Pos:	Max: 1
- Mandatory	
Loop: N/A	Elements: 2

To indicate the end of a functional group and to provide control information

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
GE01	97	Number of Transaction Sets Included Description: 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	Must use
GE02	28	Group Control Number Description: Assigned number originated and maintained by the sender	M	N0	1/9	Must use

Semantics:

1. The data interchange control number GE02 in this trailer must be identical to the same data element in the associated functional group header, GS06.

Comments:

1. The use of identical data interchange control numbers in the associated functional group header and trailer is designed to maximize functional group integrity. The control number is the same as that used in the corresponding header.

IEA

Interchange Control Trailer

Pos:	Max: 1
- Mandatory	
Loop: N/A	Elements: 2

To define the end of an interchange of zero or more functional groups and interchange-related control segments

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
IEA01	I16	Number of Included Functional Groups Description: A count of the number of functional groups included in an interchange	M	N0	1/5	Must use
IEA02	I12	Interchange Control Number Description: A control number assigned by the interchange sender	M	N0	9/9	Must use

Sample 997 Functional Acknowledgments

ST*997*000006140

AK1*IM*2010 Acknowledging received GS functional group of IM with control number 2010
 AK2*210*000003087 Acknowledging received 210 transaction set with control number 000003087
 AK5*A Transaction set accepted
 AK2*210*000003088 Acknowledging received 210 transaction set with control number 000003088
 AK5*A Transaction set accepted
 AK9*A*2*2*2 Functional group accepted - 2 transaction sets received and 2 accepted
 SE*8*000006140

ST*997*000006141

AK1*IM*16 Acknowledging received GS functional group of IM with control number 16
 AK2*210*160001 Acknowledging received 210 transaction set with control number 160001
 AK3*N9*3 N9 segment at line 3 in error
 AK4*3*369*2 N903 (data element number 369) in error - Conditional required data element missing.
 AK3*N9*12*S5 N9 segment at line 12, in S5 loop in error
 AK4*3*369*2 N903 (data element number 369) in error - Conditional required data element missing.
 AK3*L1*18*LX L1 segment at line 18, in LX loop in error
 AK4*3*122*2 L103 (data element number 122) in error - Conditional required data element missing.
 AK5*R*5 Transaction set rejected - One or More Segments in Error
 AK2*210*160002 Acknowledging received 210 transaction set with control number 160002
 AK3*L1*14*LX L1 segment at line 14, in LX loop in error
 AK4*3*122*2 L103 (data element number 122) in error - Conditional required data element missing.
 AK5*R*5 Transaction set rejected - One or More Segments in Error
 AK2*210*160008 Acknowledging received 210 transaction set with control number 160008
 AK3*L1*20*LX L1 segment at line 20, in LX loop in error
 AK4*3*122*2 L103 (data element number 122) in error - Conditional required data element missing.
 AK5*R*5 Transaction set rejected - One or More Segments in Error
 AK2*210*160009 Acknowledging received 210 transaction set with control number 160009
 AK3*L1*20*LX L1 segment at line 20, in LX loop in error
 AK4*8*150*7 L108 (data element number 150) in error - Invalid code value.
 AK5*R*5 Transaction set rejected - One or More Segments in Error
 AK2*210*160010 Acknowledging received 210 transaction set with control number 160010
 AK3*L1*15*LX L1 segment at line 15, in LX loop in error
 AK4*3*122*2 L103 (data element number 122) in error - Conditional required data element missing.
 AK5*R*5 Transaction set rejected - One or More Segments in Error
 AK2*210*160011 Acknowledging received 210 transaction set with control number 160011
 AK3*L1*18*LX L1 segment at line 18, in LX loop in error
 AK4*3*122*2 L103 (data element number 122) in error - Conditional required data element missing.
 AK5*R*5 Transaction set rejected - One or More Segments in Error
 AK9*P*15*15*9 Functional group partially accepted - 15 transaction sets received and 9 accepted
 SE*32*000006141