

ADOBE Inbound 997 ANSI X12 3040

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997 Functional Acknowledgment

Functional Group=FA

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.

Not Defined:

<u>Pos</u>	<u>Id</u>	<u>Segment Name</u>	<u>Req</u>	<u>Max Use</u>	<u>Repeat</u>	<u>Notes</u>	<u>Usage</u>
	ISA	Interchange Control Header	M	1			Mandatory
	GS	Functional Group Header	M	1			Mandatory

Heading:

<u>Pos</u>	<u>Id</u>	<u>Segment Name</u>	<u>Req</u>	<u>Max Use</u>	<u>Repeat</u>	<u>Notes</u>	<u>Usage</u>
010	ST	Transaction Set Header	M	1		N1/010	Mandatory
020	AK1	Functional Group Response Header	M	1		N1/020	Mandatory
070	AK9	Functional Group Response Trailer	M	1			Mandatory
080	SE	Transaction Set Trailer	M	1			Mandatory

Not Defined:

<u>Pos</u>	<u>Id</u>	<u>Segment Name</u>	<u>Req</u>	<u>Max Use</u>	<u>Repeat</u>	<u>Notes</u>	<u>Usage</u>
	GE	Functional Group Trailer	M	1			Mandatory
	IEA	Interchange Control Trailer	M	1			Mandatory

Notes:

- 1/010 These acknowledgments shall not be acknowledged, thereby preventing an endless cycle of acknowledgments of acknowledgments.
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.
- 1/020 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.

ISA Interchange Control Header

Pos:	Max: 1
Not Defined - Mandatory	
Loop: N/A	Elements: 16

User Option (Usage): Mandatory

To start and identify an interchange of one 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>
ISA01	I01	Authorization Information Qualifier	M	ID	2/2	Mandatory
		Description: Code to identify the type of information in the Authorization Information				
		Code Name				
		00 No Authorization Information Present (No Meaningful Information in I02)				
ISA02	I02	Authorization Information	M	AN	10/10	Mandatory
		Description: Information used for additional identification or authorization of the sender or the data in the interchange. The type of information is set by the Authorization Information Qualifier.				
ISA03	I03	Security Information Qualifier	M	ID	2/2	Mandatory
		Description: Code to identify the type of information in the Security Information				
		Code Name				
		00 No Security Information Present (No Meaningful Information in I04)				
ISA04	I04	Security Information	M	AN	10/10	Mandatory
		Description: This is used for identifying the security information about the sender or the data in the interchange. The type of information is set by the Security Information Qualifier.				
ISA05	I05	Interchange ID Qualifier	M	ID	2/2	Mandatory
		Description: Qualifier to designate the system/method of code structure used to designate the sender or receiver ID element being qualified				
		All valid standard codes are used.				
ISA06	I06	Interchange Sender ID	M	AN	15/15	Mandatory
		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				
ISA07	I05	Interchange ID Qualifier	M	ID	2/2	Mandatory
		Description: Qualifier to designate the system/method of code structure used to designate the sender or receiver ID element being qualified				
		Code Name				
		16 Duns Number With 4-Character Suffix				
ISA08	I07	Interchange Receiver ID	M	AN	15/15	Mandatory
		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				

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
ISA09	I08	Interchange Date Description: Date of the interchange	M	DT	6/6	Mandatory
ISA10	I09	Interchange Time Description: Time of the interchange	M	TM	4/4	Mandatory
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 All valid standard codes are used.	M	ID	1/1	Mandatory
ISA12	I11	Interchange Control Version Number Description: Code specifying the version number of the interchange control segments Code Name 00300 Standard Issued as ANSI X12.5-1992	M	ID	5/5	Mandatory
ISA13	I12	Interchange Control Number Description: This number uniquely identifies the interchange data to the sender. It is assigned by the sender. Together with the sender ID it uniquely identifies the interchange data to the receiver. It is suggested that the sender, receiver, and all third parties be able to maintain an audit trail of interchanges using this number.	M	N0	9/9	Mandatory
ISA14	I13	Acknowledgment Requested Description: Code sent by the sender to request an interchange acknowledgment Code Name 0 No Acknowledgment Requested	M	ID	1/1	Mandatory
ISA15	I14	Test Indicator Description: Code to indicate whether data enclosed by this interchange envelope is test or production Code Name P Production Data T Test Data Adobe: <i>Qualifier 'T' will be used only in testing. Please turn off once moved to Production where 'P' will be used.</i>	M	ID	1/1	Mandatory
ISA16	I15	Subelement Separator Description: This is a field reserved for future expansion in separating data element subgroups. (In the interest of a migration to international standards, this must be different from the data element separator).	M	AN	1/1	Mandatory

GS Functional Group Header

Pos:	Max: 1
Not Defined - Mandatory	
Loop: N/A	Elements: 8

User Option (Usage): Mandatory

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	M	ID	2/2	Mandatory
		Description: Code identifying a group of application related transaction sets				
		Code Name				
		FA Functional Acknowledgment (997)				
GS02	142	Application Sender's Code	M	AN	2/15	Mandatory
		Description: Code identifying party sending transmission; codes agreed to by trading partners				
GS03	124	Application Receiver's Code	M	AN	2/15	Mandatory
		Description: Code identifying party receiving transmission; codes agreed to by trading partners				
GS04	373	Date	M	DT	6/6	Mandatory
		Description: Date (YYMMDD)				
GS05	337	Time	M	TM	4/8	Mandatory
		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)				
GS06	28	Group Control Number	M	N0	1/9	Mandatory
		Description: Assigned number originated and maintained by the sender				
GS07	455	Responsible Agency Code	M	ID	1/2	Mandatory
		Description: Code used in conjunction with Data Element 480 to identify the issuer of the standard				
		Code Name				
		X Accredited Standards Committee X12				
GS08	480	Version / Release / Industry Identifier Code	M	AN	1/12	Mandatory
		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); if code in DE455 in GS segment is T, then other formats are allowed				
		Code Name				
		003040 Draft Standards Approved for Publication by ASC X12 Procedures Review Board through October				

<u>Code</u>	<u>Name</u>
	1993

Semantics:

1. GS04 is the group date.
2. GS05 is the group time.
3. 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:

1. 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.

ST Transaction Set Header

Pos: 010	Max: 1
Heading - Mandatory	
Loop: N/A	Elements: 2

User Option (Usage): Mandatory

To indicate the start of a transaction set and to assign a control number

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	M	ID	3/3	Mandatory
		Description: Code uniquely identifying a Transaction Set.				
		Code Name				
		997 X12.20 Functional Acknowledgment				
ST02	329	Transaction Set Control Number	M	AN	4/9	Mandatory
		Description: Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set				

Semantics:

1. The transaction set identifier (ST01) used by the translation routines of the interchange partners to select the appropriate transaction set definition (e.g., 997 selects the Acknowledgement set).

AK1 Functional Group Response Header

Pos: 020	Max: 1
Heading - Mandatory	
Loop: N/A	Elements: 2

User Option (Usage): Mandatory

To start acknowledgment of a functional group.

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	M	ID	2/2	Mandatory
Description: Code identifying a group of application related Transaction Sets.						
Code Name						
OW Warehouse Shipping Order (940)						
PC Purchase Order Change Request - Buyer Initiated (860)						
PO Purchase Order (850)						
AK102	28	Group Control Number	M	N0	1/9	Mandatory
Description: Assigned number originated and maintained by the sender.						

Semantics:

1. AK101 is the functional ID found in the GS segment (GS01) in the functional group being acknowledged.
2. AK102 is the data interchange control number found in the GS segment in the functional group being acknowledged.

User Note 2:

Example : AK1~OW~940001160

AK9 Functional Group Response Trailer

Pos: 070	Max: 1
Heading - Mandatory	
Loop: N/A	Elements: 4

User Option (Usage): Mandatory

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.

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	M	ID	1/1	Mandatory
<p>Description: Code indicating accept or reject condition based on the syntax editing of the functional group.</p> <p>Code Name</p> <p>A Accepted</p> <p>E Accepted, But Errors Were Noted.</p> <p>R Rejected</p>						
AK902	97	Number of Transaction Sets Included	M	N0	1/6	Mandatory
<p>Description: Total number of transaction sets included in the functional group or interchange (transmission) group terminated by the trailer containing this data element.</p>						
AK903	123	Number of Received Transaction Sets	M	N0	1/6	Mandatory
<p>Description: Number of Transaction Sets received.</p>						
AK904	2	Number of Accepted Transaction Sets	M	N0	1/6	Mandatory
<p>Description: Number of accepted Transaction Sets in a Functional Group.</p>						

Comments:

1. If AK901 is 'A' or 'E', then the transmitted functional group is accepted. If AK901 is 'R', then the transmitted group is rejected.

User Note 1:

Example : AK9~A~7~7~7

SE Transaction Set Trailer

Pos: 080	Max: 1
Heading - Mandatory	
Loop: N/A	Elements: 2

User Option (Usage): Mandatory

To indicate the end of the transaction set and provide the count of the transmitted segments (including the beginning (ST) and ending (SE) 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>
SE01	96	Number of Included Segments	M	N0	1/10	Mandatory
		Description: Total number of segments included in a transaction set including ST and SE segments.				
SE02	329	Transaction Set Control Number	M	AN	4/9	Mandatory
		Description: Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set				

Comments:

- SE is the last segment of each transaction set.

GE Functional Group Trailer

Pos:	Max: 1
Not Defined - Mandatory	
Loop: N/A	Elements: 2

User Option (Usage): Mandatory

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	M	N0	1/6	Mandatory
		Description: Total number of transaction sets included in the functional group or interchange (transmission) group terminated by the trailer containing this data element				
GE02	28	Group Control Number	M	N0	1/9	Mandatory
		Description: Assigned number originated and maintained by the sender				

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
Not Defined - Mandatory	
Loop: N/A	Elements: 2

User Option (Usage): Mandatory

To define the end of an interchange of one 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	M	N0	1/5	Mandatory
		Description: A count of the number of functional groups included in a transmission.				
IEA02	I12	Interchange Control Number	M	N0	9/9	Mandatory
		Description: This number uniquely identifies the interchange data to the sender. It is assigned by the sender. Together with the sender ID it uniquely identifies the interchange data to the receiver. It is suggested that the sender, receiver, and all third parties be able to maintain an audit trail of interchanges using this number.				

ISA~00~ ~00~ ~12~PARTNER ~16~102096559GSCP
~080129~0234~U~00300~001014169~0~P~|
GS~FA~PARTNER~102096559GSCP~080129~023430~1029295~X~003040
ST~997~1045220
AK1~OW~940001160
AK9~A~7~7~7
SE~4~1045220
GE~1~1029295
IEA~1~001014169