



# 997 Functional Acknowledgment

# MUVIQ USA, LLC

# North America Division

ANSI ASC X12 4010 Version: 4.0 Publication: 10/01/15





# **Change Control**

Version ID	Date of Update	Updated By:	Description of Version and Change
2015001	10/01/15	Evelyn Herrick	Initial Deployment of this document.
2018001	02/14/18	Evan Meyer	Refreshed 997 example and example segments and removed "Dayco N.A. Helpdesk" from contacts.
2018002	05/23/18	Evan Meyer	Removed any reference to 862 or 824.
2018003	11/6/2024	Justin Phoumsengkeo	Changed document to be MUVIQ controlled





# **Standards Overview**

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.

# **Business Overview**

EDI provides many benefits to support your business in achieving its objectives. EDI reduces paperwork (forms handling), data entry labor costs, printing costs, and postage costs. EDI drives out inefficiencies in the business process.

Organizations choosing EDI should consider that the full benefits are only received when both parties fully integrate the EDI data into their application systems.

# **Business Processing - Data Content**

• 997 will be expected in response to an 830 and 861. MUVIQ will return a 997 in response to the 856 and 810.





# **Additional Information**

**Testing Procedure**: Additional information regarding EDI Startup and Testing Procedures with *MUVIQ USA, LLC* is available on request.

**Codes:** All acceptable codes required to implement the transaction sets, have been consolidated into an appendix document and are available on request.

# Contacts

**EDI Certification and Support**: MUVIQ EDI Support Team – <u>edisupport@dayco.com</u>

EDI Specifications: www.daycosupplier.com

**Business Relations:** Contact your Plant or MUVIQ Buyer





# 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.

### **Headers:**

<u>Pos</u> 0100	ld ISA	<u>Segment Name</u> Interchange Control Header	<u>Rea</u> M	<u>Max Use</u> 1	<u>Repeat</u>	<u>Notes</u>	<u>Usage</u> Must use
0200	GS	Functional Group Header	М	1			Must use
010	ST	Transaction Set Header	М	1			Must use
020	AK1	Functional Group Response Header	М	1			Must use
Pos	Id	Segment Name	Req	Max Use	Repeat	Notes	Usage
LOOP ID	-AK2			-	9999999		Must Use
0300	AK2	Transaction Set Response	Ο	1			Must use
0700	AK9	Functional Group Response Trailer	Μ	1			Must use
0800	SE	Transaction set Trailer	М	1			Must use

# **Trailers:**

Pos	ld	<u>Segment Name</u>	Rea	<u>Max Use</u>	<u>Repeat</u>	<u>Notes</u>	<u>Usage</u>
010	GE	Functional Group Trailer	М	1			Must use
020	IEA	Interchange control Trailer	М	1			Must use





The following is an example 997. All supplier mapping and set up should be based on the 997 Specs and not this example transaction.

#### Inbound to MUVIQ Examples:

ISA\*00\* \*00\* \*ZZ\*XXXXXXX \*01\*150148617 GS\*FA\*XXXXXX150148617\*20180209\*0909\*7029\*X\*004010 ST\*997\*5949 AK1\*AA\*18000022 AK2\*830\*000220001 AK5\*A AK9\*A\*11\*11 SE\*6\*5949 GE\*1\*7029 IEA\*1\*000006774 \*180209\*0909\*U\*00401\*000006774\*0\*P\*>~

#### Outbound from MUVIQ Example:

ISA\*00\* \*00\* \*01\*150148617 \*ZZ\*XXXXXXXXXXX \*180209\*1406\*U\*00401\*180000001\*0\*P\*>... GS\*FA\*150148617\*XXXXXXXXX20180208\*140610\*180000001\*X\*004010 ST\*997\*9970001... AK1\*SH\*150 AK9\*A\*1\*1\*1 SE\*4\*9970001 GE\*1\*180000001 IEA\*1\*180000001 \*01\*150148617 \*ZZ\*XXXXXXXXXXX ISA\*00\* \*00\* \*180523\*0845\*U\*00401\*018000206\*0\*P\*<^

ISA^00^ ^00^ ^01^150148617 ^222^XXXXXXXX ^18052 GS\*FA\*150148617\*XXXXXXXX20180523\*084516\*18000206\*X\*004010 ST\*997\*0001 AK1\*IN\*7277 AK9\*A\*1\*1\*1 SE\*4\*0001 GE\*1\*18000206 IEA\*1\*018000206

MUVIQ 997 4010 Specs (CMS) Nov 6, 2024





Segment:		ISA Interchange Contro	ol Header	
Level:		Header		
Loop:				
Usage:		Mandatory		
Max Use:		1		
Purpose:		To start and identify an int segments	erchange of zero or mo	ore functional groups and interchange-related control
Example: ISA*00*	*00*	*01*150148617	*01*123456789	*180209*1123*U*00401*180000001*0*P

<u>Ref</u>	<u>10</u>	Element Name	Req	<u>Type</u>	<u>Min/Max</u> 2/2	Usage
ISA01	IC	of Authorization Information Qualifier Code to identify the type of information in the Authorization Information All valid standard codes are used.	М	ID		Must use
ISA02	102	Authorization Information 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)	Μ	AN	10/10	Must use
ISA03	103	Security Information Qualifier Code to identify the type of information in the Security Information All valid standard codes are used.	Μ	ID	2/2	Must use
ISA04	104	Security Information 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 (103)	Μ	AN	10/10	Must use
ISA05	105	Interchange ID Qualifier 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.	Μ	ID	2/2	Must use
ISA06	106	Interchange Sender ID 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	Μ	AN	15/15	Must use







ISA07	105	Interchange ID Qualifier				
		Qualifier to designate the system/method of code structure used to designate the sender or receiver ID element being qualified	М	ID	2/2	Must use
Code Name	<u>e</u> 01 Duns	Dun & Bradstreet)				
ISA08	107	Interchange Receiver ID Identification code published by the receiver of the data; When 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	Μ	AN	15/15	Must use
ISA09	108	Interchange Date Date of the interchange	М	DT	6/6	Must use
ISA10	109	Interchange Time Time of the interchange	Μ	TM	4/4	Must use
ISA11	110	Interchange Control Standards Identifier 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.	М	ID	1/1	Must use
ISA12	111	Interchange Control Version Number Code specifying the version number of the interchange control segments	М	ID	5/5	Must use
		Code Name				
		00401 Draft Standards for Trial Use Approved Review Board through October 1997	for Public	ation by A	SC X12 Procec	lures
ISA13	l12	Interchange Control Number A control number assigned by the interchange sender	M	N0	9/9	Must use
ISA14	113	Acknowledgment Requested Code sent by the sender to request an interchange acknowledgment (TA1)	Μ	ID	1/1	Must use
ISA15	114	0 No Acknowledgment Requested Usage Indicator	М	ID	1/1	Must use
13413	114	Code to indicate whether data enclosed by this interchange envelope is test, production or information <b>All valid standard codes</b> <b>are used.</b>	141	U	1/ 1	Musi use





ISA16	l15	Component Element Separator	М	1/1	Must use
		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			

Segment:	GS Functional Group Header
Level:	Header
Loop:	
Usage:	Mandatory
Max Use:	1
Purpose:	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 trail.
Semantic:	<ol> <li>1: GS04 is the group date. 2: GS05 is the group time.</li> <li>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.</li> </ol>
Example:	GS*FA*150148617*123456789*20180209*1123*180000001*X*004010

<u>Ref</u> <u>Id</u> GS01	-	<u>lement Nar</u> ctional Ide	<b>ne</b> ntifier Code Code identifying a group application related transaction s		<u>Type</u> ID	<u>Min/Max</u> 2/2	Usage Must use	
		<u>Code</u>	<u>Name</u>					
		FA	FunctionalAcknowledgment					
GS02	142	Applicatio	n Sender's Code Code identifying party transmission; codes agreed to by		М	AN	2/15	Must use
GS03	124	Applicatio	n Receiver's Code Code identifying party r transmission; codes agreed to by		М	AN	2/15	Must use
GS04	373	Date	Date expressed as CCYYMMD	D	М	DT	8/8	Must use





GS05	337	HHMM hours (00-23), seconds (00-59) and	Time expressed in 24-hour follows: HHMM, or HHMMSS, or ISSD, or HHMMSSDD, where H = M = minutes (00-59), S = integer DD = decimal seconds; decimal ssed as follows: D = tenths (0-9) and DD = hundredths (00-99)	М	ТМ	4/8	Must use
GS06	28		er Issigned number originated and Intained by the sender	М	NO	1/9	Must use
GS07	455	standard; this code is	Code ode identifying the issuer of the used in conjunction with Data standard codes are used.	М	ID	1/2	Must use
GS08	480	r	ease / Industry Identifier Code Code indicating the version, elease, subrelease, and industry ntifier of the EDI standard being used, including the GS and GE segments.	М	AN	1/12	Must use
		<u>Code</u> <u>Nam</u>	e				
		004010	Draft Standards Approved for Public through October 1997	cation by AS	C X12 Proc	edures Review	Board





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
Semantic:	The transaction set identifier (ST01) used by the translation routines of the interchange partners to select the appropriate set definition
Example:	ST*997*9970001

<u>Ref</u>	ld	<u>Element Nam</u>	<u>e</u>	Req	Type	<u>Min/Max</u>	<u>Usage</u>
ST01	143	Transaction Set Identifier Code Code uniquely identifying a Transaction Set		М	ID	3/3	Must use
		<u>Code</u>	Name				
		997	FunctionalAcknowledgment				
ST02	329	Transaction S	et Control Number Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set	М	AN	4/9	Must use





Segment:	AK1 Functional Group Response Header
Level:	Header
Loop:	
Usage:	Mandatory
Max Use:	1
Purpose:	To start acknowledgment of a functional group
Semantic:	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
Example:	AK1*PS*180000014

<u>Ref</u>	<u>ld</u>	<u>Element Name</u>	Req	Type	Min/Max	<u>Usage</u>
AK101	479	Functional identifier code	М	ID	2/2	Must use
		Code identifying a group of				
		application related transaction sets				
AK102	28	Group Control Number	М	NO	1/9	Must use
		Assigned number originated and				
		maintained by the sender				





	AK2 Transaction Set Response Header
Segment:	
Level:	Header
Loop:	AK2
Usage:	Mandatory
Max Use:	1
Purpose:	To start acknowledgment of a single transaction set
Notes:	AK2 is used to start the acknowledgment of a transaction set with in 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
Semantic:	<ul> <li>1: AK201 is the transaction set ID found in the ST segment (ST01) in the transaction set being acknowledged.</li> <li>2: AK202 is the transaction set control number found in the ST segment in the transaction set being acknowledged.</li> </ul>
Example	AK2*830*8300001

Ref	<u>ld</u>	Element Name	Req	Type	<u>Min/Max</u>	<u>Usage</u>
AK201	143	Transaction Set Identifier Code	М	ID	3/3	Must use
		Code identifying a Transaction set				
AK202	329	Transaction Set Control Number		AK202	329	Transaction Set Control Number





Segment:	AK9 Functional Group 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:	If AK901 contains the value "A", then the transmitted functional group is accepted.
Example:	AK9*A*1*1*1

	<u>Ref</u>	ld	Element Name	<u>Rea</u>	Ţ	vpe	<u>Min/Max</u> 1/1	<u>Usage</u>
	AK901 71	5 Functional G	Froup Acknowledge Code Code indicating accept	M or reject	IC	)		Must use
			conditions based on the editing of the functiona	ne syntax				
		<u>Code</u>	Name	0				
		А	Accepted					
		R	Rejected					
		Е	Accepted with errors					
AK902	2 97	Number	of transaction sets Include Total nu transaction sets include functional group or inter (transmission) group termin the trailer containing th e	mber of ed in the rchange ated by	Μ	NO	1/6	Must use
AK903	3 123	Number	of Received Transaction so Number of transaction r		М	NO	1/6	Must use
AK904	42	Number	of accepted transaction se	ets	М	NO	1/6	Must use





Segment:	SE Transaction Set Trailer
Level:	Summary
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)
Comment:	SE is the last segment of each transaction set.
Example:	SE*6*180000001

		Data Element Summary				
<u>Ref</u>	ld	<u>Element Name</u>	Req	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
SE01	96	Number of Included Segments	М	N0	1/10	Must use
		Total number of segments included in a transaction set including ST and SE segments				
SE02	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	Μ	AN	4/9	Must use





Segment:	GE Functional Group Trailer
Level:	Summary
Loop:	
Usage:	Mandatory
Max Use:	1
Purpose:	To indicate the end of a functional group and to provide control information
Set Notes:	The data interchange control number GE02 in this trailer must be identical to the same data element in the associated functional group header, GS06
Example:	GE*1*18000001

Ref	ld	Element Name	Req	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
GE01	97	Number of Transaction Sets Included				
		Total number of				
		transaction sets included in the ${}^{\sf M}$	N0		1/6	Must use
		functional group or interchange				
		(transmission) group terminated by the				
		trailer containing this data element				
GE02	28	Group Control Number				
		Assigned number originated		NO	4/0	Mustuss
		and maintained by the sender	М	N0	1/9	Must use





Segment:	IEA Interchange Control Trailer
Level:	Summary
Loop:	
Usage:	Mandatory
Max Use:	1
Purpose:	To define the end of an interchange of zero or more functional groups and interchangerelated control segments
Example:	IEA*1*180000001

<u>Ref</u>	<u>ld</u>	Element Name	Req	Type	<u>Min/Max</u>	Usage
IEA01	I16	Number of Included Functional Groups A count of the number of functional groups included in an interchange	М	N0	1/5	Must use
IEA02	l12	Interchange Control Number A control number assigned by the interchange sender	м	N0	9/9	Must use