Message Implementation Guideline

MBUSI_003050_997

based on

997
Functional Acknowledgment

X12 003050

Version: 1.0
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Introduction

MBUSI will require Functional Acknowledgments for all transactions. **It is the intent to use the lack of Functional Acknowledgments within expected maximum times of transmission to cause exception handling routines to be invoked.**

The following maximum transmission times should be considered
Suppliers sending via OFTP2 EXPRESS+ connection: 5 min
All other suppliers: 1 hour

If the supplier does not receive a 997 back within the maximum time above, it is the supplier's responsibility to begin exception handling routine and investigation of the EDI issue by contacting MBUSI.

MBUSI will send Functional Acknowledgments in response to all incoming messages (except incoming Functional Acknowledgments), and will expect trading partners to institute exception proceedings if they do not receive them within agreed times. An exception to the requirement to send 997 messages will be made for all Steel Offload specific messages.

The Functional Acknowledgment is sent using the AIAG subset of Transaction Set 997 of the ANSI X12 standard, version 003050. Functional Acknowledgments are issued upon receipt of the transmission. The 997 acknowledges the receipt and does NOT verify the content of the message.

The segments and elements used from the 997 Transaction set are described below by segment. Each segment is described as Mandatory, and will always be sent by MBUSI, or optional, and will only be sent as needed. The minimum and maximum number of occurrences within the transaction is listed. If the segment is part of a loop, there is a loop ID shown.

For each segment, the elements of the segment are described. The element position shows the relative position in the segment (the segment identifier is not shown or counted). The element number is the ANSI X12 element references. The description shows the description of the element, and under the description are the possible values of the element. An M in the option shows that the element will always be included, an O that it will be included only as needed. The type and size are of the format Type Min/Max, where Type is AN for alphanumeric, N for integer, R for Real, and ID for a defined code. Min and Max are the minimum and maximum number of characters in the field. One or more examples are shown for each segment.

Message Structure / Table of Contents

Counter	No	Tag	St	MaxOcc	Level	Content
0000	1	**ISA**	M	1	0	Interchange Control Header
	2	**GS**	M	1	0	Functional Group Header
	3	**ST**	M	1	0	Transaction Set Header
	4	**AK1**	M	1	1	Functional Group Response Header
	5	**AK2**	O	1	1	Transaction Set Response Header
	6	**AK3**	O	1	1	Data Segment Note
	7	**AK4**	O	99	1	Data Element Note
	8	**AK5**	M	1	1	Transaction Set Response Trailer
	9	**AK9**	M	1	1	Functional Group Response Trailer
	10	**SE**	M	1	0	Transaction Set Trailer
	11	**GE**	M	1	0	Functional Group Trailer
	12	**IEA**	M	1	0	Interchange Control Trailer

Segments

Counter	No	Tag	St	MaxOcc	Level	Name
0000	1	**ISA**	M	1	0	**Interchange Control Header**

		Standard		Implementation	
Tag	Name	St Format	St	Format	Usage / Remark
ISA					
I01	Authorization Information Qualifier	M ID 2/2	M	ID 2/2	**00 No Authorization Information Present** (No Meaningful Information in I02)
I02	Authorization Information	M AN 10/10	M	AN 10/10	
I03	Security Information Qualifier	M ID 2/2	M	ID 2/2	**00 No Security Information Present** (No Meaningful Information in I04)
I04	Security Information	M AN 10/10	M	AN 10/10	
I05	Interchange ID Qualifier	M ID 2/2	M	ID 2/2	**ZZ** Mutually defined
I06	Interchange Sender ID	M ID 15/15	M	AN 15/15	**MBUS MBUS002** (see remark 1)
I05	Interchange ID Qualifier	M ID 2/2	M	ID 2/2	**01 Duns Number, 08-Phone Number, ZZ-Mutually defined**
I07	Interchange Receiver ID	M ID 15/15	M	AN 15/15	Left justify, space fill
I08	Interchange Date	M DT 6/6	M	DT 6/6	
I09	Interchange Time	M TM 4/4	M	TM 4/4	
I10	Interchange Control Standards Identifier	M ID 1/1	M	ID 1/1	**U U.S. EDI Community of ASC X12, TDCC, and UCS**
I11	Interchange Control Version Number	M ID 5/5	M	ID 5/5	**00305 Standard Issued as ANSI X12.5-1987**
I12	Interchange Control Number	M N0 9/9	M	N0 9/9	A number that cannot be repeated in a one year time
I13	Acknowledgment Requested	M ID 1/1	M	ID 1/1	**0 No Acknowledgment Requested**
I14	Test Indicator	M ID 1/1	M	ID 1/1	**P Production Data** **T Test Data**
I15	Subelement Separator	M AN 1/1	M	AN 1/1	

Remarks:

1. Value for field I06 Interchange Sender ID will be "**`MBUS  MBUS002`** " for all messages sent by MBUSI (please note the three spaces between MBUS and MBUS002 are mandatory as well as the single space at the end).
2. Field I07 will hold the Interchange Sender ID of the supplier receiving the message (this will be supplied to MBUSI by the supplier)

Example:

```
ISA*00*          *00*          *ZZ*MBUS   MBUS003 *ZZ*AAABBB         *151231*2200*U*003050*000001751*0*P*:~
```

Segments

Counter	No	Tag	St	MaxOcc	Level	Name
0000	2	**GS**	C	1	0	**Functional Group Header**

		Standard		Implementation		
Tag	Name	St	Format	St	Format	Usage / Remark
GS						
479	Functional Identifier Code	M	ID 2/2	M	ID 2/2	**FA Functional Acknowledgment**
142	Application Sender's Code	M	AN 2/12	M	AN 2/15	
124	Application Receiver's Code	M	AN 2/12	M	AN 2/15	
373	Date	M	DT 6/6	M	DT 6/6	
337	Time	M	TM 4/4	M	TM 4/8	
28	Group Control Number	M	N0 1/9	M	N0 1/9	
455	Responsible Agency Code	M	ID 1/2	M	ID 1/2	**X Accredited Standards Committee X12**
480	Version / Release / Industry Identifier Code	M	ID 1/12	M	AN 1/12	**003050 Draft Standards Approved for Publication by ASC X12 Procedures Review Board through October 1994**

Remark:

None

Example:

```
GS*FA*MBUS002*EDIS50*151231*1600*1*X*003050
```

Segments

Counter	No	Tag	St	MaxOcc	Level	Name
0010	3	**ST**	M	1	0	**Transaction Set Header**

		Standard		Implementation			
Tag	Name	St	Format	St	Format		Usage / Remark
ST							
143	Transaction Set Identifier Code	M	ID 3/3	M	ID	3/3	**997 Payment Order/Remittance Advice**
329	Transaction Set Control Number	M	AN 4/9	M	AN	4/9	Must be the same as SE02

Remark:

None

Example:

```
ST*820*119492~
```

Segments

Counter	No	Tag	St	MaxOcc	Level	Name
	4	**AK1**	M	1	1	**Functional Group Response Header**

		Standard			Implementation			
Tag	Name	St	Format		St	Format		Usage / Remark
BPR								
479	Functional Identifier Code	M	ID	2/2	M	ID	2/2	Specific value of the GS01 of the functional group being acknowledged
28	Group Control Number	M	N0	1/9	M	N0	1/9	Specific value of the GS06 of the functional group being acknowledged

Remark:

None

Example:

```
AK1*PO*1
```

Segments

Counter	No	Tag	St	MaxOcc	Level	Name
	5	**AK2**	O	1	1	**Transaction Set Response Header**

		Standard			Implementation			
Tag	Name	St	Format		St	Format		Usage / Remark
TRN								
143	Transaction Set Identifier Code	M	ID	3/3	M	ID	3/3	Any valid code
329	Transaction Set Control Number	M	AN	4/9	M	AN	4/9	Contains the value in the ST02 in the transaction set being acknowledged

Remark:

None

Example:

```
AK2*850*1234
```

Segments

Counter	No	Tag	St	MaxOcc	Level	Name
	6	**AK3**	O	1	1	**Data Segment Note**

		Standard			Implementation			
Tag	Name	St	Format		St	Format		Usage / Remark
AK3								
721	Segment ID Code	M	ID	2/3	M	ID	2/3	Any valid code
719	Segment Position in Transaction Set	M	N0	1/6	M	N0	1/6	
447	Loop Identifier Code	O	AN	1/4	O	AN	1/4	
720	Segment Syntax Error Code	O	ID	1/3	O	ID	1/3	Any valid code

Remark:

None

Example:

```
AK3*DTM*4~
```

Segments

Counter	No	Tag	St	MaxOcc	Level	Name
	7	**AK4**	O	99	1	**Data Element Note**

		Standard			Implementation			
Tag	Name	St	Format		St	Format		Usage / Remark
AK4								
722	Element Position in Segment	M	N0	1/2	M	ID	1/1	Element position
725	Data Element Reference Number	O	N0	1/4	O	N0	1/4	
723	Data Element Syntax Error Code	M	ID	1/3	M	ID	1/3	
724	Copy of Bad Data Element	O	AN	1/99	O	AN	1/99	Any valid code

Remark:

This marks the end of the data segment loop.

Example:

```
AK4*1*374*4*92~
```

Segments

Counter	No	Tag	St	MaxOcc	Level	Name
	8	**AK5**	M	1	1	**Transaction Set Response Trailer**

		Standard			Implementation			
Tag	Name	St	Format		St	Format		Usage / Remark
AK5								
717	Transaction Set Acknowledgment Code	M	ID	1/1	M	ID	1/1	Any valid code
718	Transaction Set Syntax Error Code	O	ID	1/3	O	ID	1/3	Any valid code
718	Transaction Set Syntax Error Code	O	ID	1/3	O	ID	1/3	Any valid code
718	Transaction Set Syntax Error Code	O	ID	1/3	O	ID	1/3	Any valid code
718	Transaction Set Syntax Error Code	O	ID	1/3	O	ID	1/3	Any valid code
718	Transaction Set Syntax Error Code	O	ID	1/3	O	ID	1/3	Any valid code

Remark:

This marks the end of the transaction set loop.

Example:

```
AK5*R*5~
```

Segments

Counter	No	Tag	St	MaxOcc	Level	Name
	9	**AK9**	M	1	1	**Functional Group Response Trailer**

		Standard			Implementation			
Tag	Name	St	Format		St	Format		Usage / Remark
AK9								
715	Functional Group Acknowledge Code	M	ID	1/1	M	ID	1/1	Any valid code
97	Number of Transaction Sets Included	M	N0	1/6	M	N0	1/6	Number of transaction sets (value of GE01 in the received functional group
123	Number of Received Transaction Sets	M	N0	1/6	M	N0	1/6	Receiver's count
2	Number of Accepted Transaction Sets	M	N0	1/6	M	N0	1/6	
716	Functional Group Syntax Error Code	O	ID	1/3	O	ID	1/3	Any valid code
716	Functional Group Syntax Error Code	O	ID	1/3	O	ID	1/3	Any valid code
716	Functional Group Syntax Error Code	O	ID	1/3	O	ID	1/3	Any valid code
716	Functional Group Syntax Error Code	O	ID	1/3	O	ID	1/3	Any valid code
716	Functional Group Syntax Error Code	O	ID	1/3	O	ID	1/3	Any valid code

Remark:

None

Example:

```
AK9*E*1*1*0~
```

Segments

Counter	No	Tag	St	MaxOcc	Level	Name
	10	**SE**	M	1	0	**Transaction Set Trailer**

		Standard			Implementation		
Tag	Name	St	Format		St	Format	Usage / Remark
SE							
96	Number of Included Segments	M	N0	1/10	M	N0 1/10	
329	Transaction Set Control Number	M	AN	4/9	M	AN 4/9	Must be the same as ST02

Remark:

None

Example:

```
SE*45*000001234~
```

Segments

Counter	No	Tag	St	MaxOcc	Level	Name
	11	**GE**	M	1	0	**Functional Group Trailer**

		Standard		Implementation	
Tag	Name	St Format	St	Format	Usage / Remark
GE					
97	Number of Transaction Sets Included	M N0 1/6	M	N0 1/6	
28	Group Control Number	M N0 1/9	M	N0 1/9	Must match the Group Control Number in GS06

Remark:

None

Example:

```
GE*1*1751~
```

Segments

Counter	No	Tag	St	MaxOcc	Level	Name
	12	**IEA**	M	1	0	**Interchange Control Trailer**

		Standard		Implementation	
Tag	Name	St Format	St	Format	Usage / Remark
IEA					
I16	Number of Included Functional Groups	M N0 1/5	M	N0 1/5	
I12	Interchange Control Number	M N0 9/9	M	N0 9/9	

Remark:

None

Example:

```
IEA*1*000001751~
```

Example message

The following is an example of an EDI Functional Acknowledgment. For readability, segments are delimited with new lines, and elements with asterisks.

```
ISA*00*          *00*          *ZZ*MBUS   MBUS001 *ZZ*EDIS   EDIS50
*960307*1602*U*00200*000000001*0*T*:
GS*FA*MBUS001*EDIS50*960307*1602*1*X*003050
ST*997*000000001
AK1*PO*1
AK2*850*1234
AK3*DTM*4
AK4*1*374*4*92
AK5*R*5
AK9*E*1*1*0
SE*8*000000001
GE*1*1
IEA*1*000000001~
```

Appendix

MBUSI Trading Partner Specific Information

ID Qualifier		"**ZZ**"	
EDI Interchange ID	MBUSI Sending – Prod.	"**MBUS**	**MBUS002** "
	MBUSI Sending – Test	"**MBUS**	**MBUS002** "
	MBUSI Receiving – Prod.	"**MBUS**	**MBUS003** "
	MBUSI Receiving – Test	"**MBUS**	**MBUS005** "
	*Note the three spaces after "MBUS"		
Value Added Network	GXS / IE now part of OpenText		

Element Status Legend

M	mandatory
C	conditional
O	optional

Element Format Legend

N*n*	integer (with *n* specified decimal spaces, ie. N0 is an integer with no decimal places)
R	real number (explicit decimal point)
AN	alphanumeric
DT	date (always 6 characters YYMMDD)
TM	time (4 HHMM, 6 HHMMSS, 7 HHMMSS, 8 HHMMSSDD)
ID	defined code