

Functional Acknowledgement (997) Programming Specification

ASC X.12 EDI VERSION 003060AIAG

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Looping Structure:

Table 1: Data Segment Sequence for the Header Area

Status	Pos #	Seg ID	Name	Req. Des.	Max Use	Loop Repeat
p.3	010	ST	Transaction Set Header	M	1	
p.4	020	AK1	Functional Group Response Header	M	1	
(LOOP ID - AK2)						999999
p.5	030	AK2	Transaction Set Response Header	O	1	AK2
(LOOP ID - AK2/AK3)						999999
p.6	040	AK3	Data Segment Note	O	1	AK2/AK3
p.7	050	AK4	Data Element Note	O	99	AK2/AK3
p.8	060	AK5	Transaction Set Response Trailer	M	1	AK2
p.9	070	AK9	Functional Group Response Trailer	M	1	
p.10	080	SE	Transaction Set Trailer	M	1	

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SEGMENT: **GS** Functional Group Header

LEVEL: N/A

LOOP: as required

USAGE: Mandatory 1 per functional group

MAX USE: 1

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

COMMENT:

EXAMPLE: GS*FA*123456789*987654321*030619*1235*1*X*003060

Data Element Summary

Reference	Name / Comment	USE	AIAG Attributes
GS01 479	Functional Identifier "FA" Functional Acknowledgement	YES	M ID 2/2 M ID 2/2
GS02 142	Application Sender Code DUNS number	YES	M ID 2/12 M ID 2/12
GS03 124	Application Receiver Code DUNS number	YES	M ID 2/12 M ID 2/12
GS04 29	Data Interchange Date date built (YYMMDD)	YES	M DT 6/8 M DT 6/8
GS05 30	Data Interchange Time time built (HHMM)	YES	M TM 4/4 M TM 4/4
GS06 28	Interchange Control Number Unique control number starting with 1 and incrementing by 1 for each subsequent GS segment, same as GE02	YES	M NO 1/9 M NO 1/9
GS07 455	Responsible Agency "X"	YES	M ID 1/2 M ID 1/2
GS08 480	Version "003060"	YES	M ID 1/12 M ID 1/12

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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

COMMENT: These acknowledgement shall not be acknowledged. There is only one Functional Acknowledgement Transaction Set per acknowledged functional group.

EXAMPLE: ST*997*0001

Data Element Summary

Reference	Name / Comment	USE	AIAG Attributes
ST01 143	Transaction Set Identifier Code "997" Functional Acknowledgement	YES	M ID 3/3 M ID 3/3
ST02 329	Transaction Set Control Number Unique control number starting with 0001 and incrementing by 1 for each subsequent transaction set, same as SE02	YES	M AN 4/9 M AN 4/9

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SEGMENT: **AK1** **Functional Group Response Header**

LEVEL: Header

LOOP: -

USAGE: Mandatory

MAX USE: 1

PURPOSE: To start acknowledgement of a functional group

COMMENT: There shall be one AK1 segment for the functional group that is being acknowledged.

EXAMPLE: AK1*SS*000000160

Data Element Summary

Reference	Name / Comment	USE	AIAG Attributes
AK101 479	Functional Identifier Code Specific value of the GS01 of the functional group being acknowledged.	YES	M ID 2/2 M ID 2/2
AK102 28	Group Control Number Specific value of the GS08 of the functional group being acknowledged.	YES	M NO 1/9 M NO 1/9

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SEGMENT: **AK2** Transaction Set Response Header

LEVEL: Header

LOOP: AK2 **Repeat:** 999999

USAGE: Optional

MAX USE: 1

PURPOSE: To start acknowledgement of a single transaction set

COMMENT: 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.

EXAMPLE: AK2*850*0001

Data Element Summary

Reference	Name / Comment	USE	AIAG Attributes
AK201 143	Transaction Set Identifier Code	YES	M ID 3/3 M ID 3/3
AK202 329	Transaction Set Control Number Contains the value in element ST02 in the transaction set being acknowledged.	YES	M AN 4/9 M AN 4/9

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SEGMENT: **AK3** **Date Segment Note**

LEVEL: Header

LOOP: AK2/AK3 **Repeat:** 999999

USAGE: Optional

MAX USE: 1

PURPOSE: To report errors in the data segment and identify the location of the data segment.

COMMENT: Report the extent to which the syntax complies with the standards for transaction sets and functional groups.

EXAMPLE: AK3*REF*25**2
 AK3*DTM*31

Data Element Summary

Reference	Name / Comment	USE	AIAG Attributes
AK301 721	Segment ID Code Any valid segment code	YES	M ID 2/3 M ID 2/3
AK302 719	Segment Position in transaction set	YES	M NO 1/8 M NO 1/8
AK303 447	Loop Identifier Code	YES	O AN 1/4 O AN 1/4
Ak304 720	Segment Syntax Error Code Any valid error code	YES	O ID 1/3 O ID 1/3

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SEGMENT: **AK4** Data Element Note

LEVEL: Header

LOOP: AK2/AK3

USAGE: Optional

MAX USE: 99

PURPOSE: To report errors in a data element and identify the location of the data element.

COMMENT:

EXAMPLE: AK4*1*374*1

AK4*2*373*8*0A0193

Data Element Summary

Reference	Name / Comment	USE	AIAG Attributes
AK401 722	Element Position in Segment This is used to indicate the relative position.	YES	M NO 1/2 M NO 1/2
AK402 725	Data Element Reference Number Data element in the data element dictionary	YES	O NO 1/4 O NO 1/4
AK403 723	Data Element syntax Error Code Any valid error code	YES	M ID 1/3 M ID 1/3
AK404 724	Copy of Bad Data Element	YES	O AN 1/99 O AN 1/99

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SEGMENT: **AK5** Transaction Set Response Trailer

LEVEL: Header

LOOP: AK2

USAGE: Mandatory

MAX USE: 1

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

COMMENT: The AK5 segment is mandatory in the optional AK2 – AK5 loop

EXAMPLE: AK5*R*5
 AK5*A

Data Element Summary

Reference	Name / Comment	USE	AIAG Attributes
AK501 717	Transaction Set Acknowledgement Code Accept or reject the transaction, Any valid acknowledgment code	YES	M ID 1/1 M ID 1/1
AK502 718	Transaction Set Syntax Error Code Any valid error code	YES	O ID 1/3 O ID 1/3
AK503 718	Transaction Set Syntax Error Code Any valid error code	YES	O ID 1/3 O ID 1/3
AK504 718	Transaction Set Syntax Error Code Any valid error code	YES	O ID 1/3 O ID 1/3
AK505 718	Transaction Set Syntax Error Code Any valid error code	YES	O ID 1/3 O ID 1/3
AK506 718	Transaction Set Syntax Error Code Any valid error code	YES	O ID 1/3 O ID 1/3

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SEGMENT: **AK9** **Functional Group Response Trailer**

LEVEL: Header

LOOP:

USAGE: Mandatory

MAX USE: 1

PURPOSE: To acknowledge acceptance or rejection of a functional group.

COMMENT: If AK901 contains the value of "A" or "E" then the functional group is accepted. If AK901 contains the value "R" then the functional group is rejected.

EXAMPLE: AK9*A*3*3*3
 AK9*R*3*3*0

Data Element Summary

Reference	Name / Comment	USE	AIAG Attributes
AK901 715	Functional Group Acknowledgement Code Accept or reject the transaction, Any valid acknowledgment code ("A", "E", "R")	YES	M ID 1/1 M ID 1/1
AK902 97	Number of Transaction Sets Included Total number of transaction sets in the functional group	YES	M NO 1/8 M NO 1/8
AK903 123	Number of Received Transaction Sets	YES	M NO 1/8 M NO 1/8
AK904 2	Number of Accepted Transaction Sets	YES	M NO 1/8 M NO 1/8
AK905 716	Functional Group Syntax Error Code Any valid error code	YES	O ID 1/3 O ID 1/3
AK906 718	Functional Group Syntax Error Code Any valid error code	YES	O ID 1/3 O ID 1/3
AK907 718	Functional Group Syntax Error Code Any valid error code	YES	O ID 1/3 O ID 1/3
AK908 718	Functional Group Syntax Error Code Any valid error code	YES	O ID 1/3 O ID 1/3
AK909 718	Functional Group Syntax Error Code Any valid error code	YES	O ID 1/3 O ID 1/3

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SEGMENT: **SE** Transaction Set Trailer

LEVEL: Header

LOOP:

USAGE: Mandatory

MAX USE: 1

PURPOSE: To indicate the end of the transaction set and provide the count of the transmitted segments

COMMENT: The last segment of each transaction set

EXAMPLE: SE*77*0001

Data Element Summary

Reference	Name / Comment	USE	AIAG Attributes
SE01 96	Number of included segments Total number of segments included in a transaction set Including ST and SE segments	YES	M NO 1/10 M NO 1/10
SE02 329	Transaction Set Control Number Same as ST02 in the associated transaction set	YES	M AN 4/9 M AN 4/9

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SEGMENT: **GE** Functional Group Trailer

LEVEL: N/A

LOOP: -

USAGE: Mandatory 1 per functional group

MAX USE: 1

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

COMMENT:

EXAMPLE: GE*1*1

Data Element Summary

Reference	Name / Comment	USE	AIAG Attributes
GE01 97	Number of Transaction Sets Included Total number of ST segments in group	YES	M NO 1/8 M NO 1/8
GE02 28	Data Interchange Control Number same as GS08 in the associated group header	YES	M NO 1/9 M NO 1/9