



997 FS Functional Acknowledgment

Foodservice EDI

Version: 4010-2012 FS Final

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Publication:	2012-07-01
Notes:	For Implementation December 2012

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997 Functional Acknowledgment Foodservice

Functional Group=FA

Purpose: 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.

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	Must use
020	AK1	Functional Group Response Header	M	1		N1/020	Must use
LOOP ID - AK2					999999	N1/030L	
030	AK2	Transaction Set Response Header	O	1		N1/030	Used
LOOP ID - AK3					999999	C1/040L	
040	AK3	Data Segment Note	O	1		C1/040	Used
050	AK4	Data Element Note	O	99			Used
060	AK5	Transaction Set Response Trailer	M	1			Must use
070	AK9	Functional Group Response Trailer	M	1			Must use
080	SE	Transaction Set Trailer	M	1			Must use

Notes:

- 1/010 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.
- 1/030L 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.
- 1/030 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.

Comments:

- 1/040L 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).
- 1/040 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).

ST Transaction Set Header

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

User Option (Usage): Must use

Purpose: 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	Must use

Description: Code uniquely identifying a Transaction Set

Code List Summary (Total Codes: 298, Included: 1)

Code Name

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ST02	329	Transaction Set Control Number	M	AN	4/9	Must use
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Description: Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set

User Note 1: *The number is sequentially assigned by the sender, starting with one within each functional group. For each functional group, the first transaction set control number will be 0001 and incremented by one for each additional transaction set within the group.*

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., 810 selects the Invoice Transaction Set).

AK1 Functional Group Response Header

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

User Option (Usage): Must use

Purpose: 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	Must use

Description: Code identifying a group of application related transaction sets

User Note 1: *This is the functional group ID of the group that is being acknowledged, e.g., if a purchase order group is being acknowledged, the value would be PO; it is the value sent in GS01 for the original transmission.*

Code List Summary (Total Codes: 234, Included: 6)

Code Name

IN	Invoice Information (810,819)
PC	Purchase Order Change Request - Buyer Initiated (860)
PO	Purchase Order (850)
PR	Purchase Order Acknowledgement (855)
RA	Payment Order/Remittance Advice (820)
SH	Ship Notice/Manifest (856)

AK102	28	Group Control Number	M	N0	1/9	Must use
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Description: Assigned number originated and maintained by the sender

User Note 1: *This is the control number assigned to the group being acknowledged, e.g., this is the control number assigned by the sender of the original transmission. It is the value sent in GS06 for the original transmission.*

Semantics:

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.

Loop Transaction Set Response Header

Pos: 030	Repeat: 999999
Optional	
Loop: AK2 Elements: N/A	

User Option (Usage): Used

Purpose: To start acknowledgment of a single transaction set

Loop Summary:

<u>Pos</u>	<u>Id</u>	<u>Segment Name</u>	<u>Req</u>	<u>Max Use</u>	<u>Repeat</u>	<u>Usage</u>
030	AK2	Transaction Set Response Header	O	1		Used
040		Loop AK3	O		999999	Used
060	AK5	Transaction Set Response Trailer	M	1		Must use

Semantics:

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.

AK2 Transaction Set Response Header

Pos: 030	Max: 1
Heading - Optional	
Loop: AK2	Elements: 2

User Option (Usage): Used

Purpose: To start acknowledgment of a single transaction set

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	M	ID	3/3	Must use

Description: Code uniquely identifying a Transaction Set

User Note 1: *This is the transaction set ID of the transaction being acknowledged, e.g., if a purchase order is being acknowledged, the value would be 850; it is the value sent in ST01 for the original transmission.*

Code List Summary (Total Codes: 298, Included: 6)

Code Name

- 810 Invoice
- 820 Payment Order/Remittance Advice
- 850 Purchase Order
- 855 Purchase Order Acknowledgment
- 856 Ship Notice/Manifest
- 860 Purchase Order Change Request - Buyer Initiated

AK202	329	Transaction Set Control Number	M	AN	4/9	Must use
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Description: Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set

User Note 1: *This is the control number assigned to the transaction set being acknowledged, e.g., this is the control number assigned by the sender of the original transmission. It is the value sent in ST02 for the original transmission.*

Semantics:

- AK201 is the transaction set ID found in the ST segment (ST01) in the transaction set being acknowledged.
- AK202 is the transaction set control number found in the ST segment in the transaction set being acknowledged.

Loop Data Segment Note

Pos: 040	Repeat: 999999
Optional	
Loop: AK3	Elements: N/A

User Option (Usage): Used

Purpose: To report errors in a data segment and identify the location of the data segment

Loop Summary:

<u>Pos</u>	<u>Id</u>	<u>Segment Name</u>	<u>Req</u>	<u>Max Use</u>	<u>Repeat</u>	<u>Usage</u>
040	AK3	Data Segment Note	O	1		Used
050	AK4	Data Element Note	O	99		Used

AK3 Data Segment Note

Pos: 040	Max: 1
Heading - Optional	
Loop: AK3	Elements: 4

User Option (Usage): Used

Purpose: To report errors in a data segment and identify the location of the data segment

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	M	ID	2/3	Must use
		Description: Code defining the segment ID of the data segment in error (See Appendix A - Number 77)				
AK302	719	Segment Position in Transaction Set	M	N0	1/6	Must use
		Description: The numerical count position of this data segment from the start of the transaction set: the transaction set header is count position 1				
AK303	447	Loop Identifier Code	O	AN	1/6	Used
		Description: The loop ID number given on the transaction set diagram is the value for this data element in segments LS and LE				
AK304	720	Segment Syntax Error Code	O	ID	1/3	Used
		Description: Code indicating error found based on the syntax editing of a segment				

Code List Summary (Total Codes: 8, Included: 3)

<u>Code</u>	<u>Name</u>
1	Unrecognized segment ID
2	Unexpected segment
3	Mandatory segment missing

AK4 Data Element Note

Pos: 050	Max: 99
Heading - Optional	
Loop: AK3	Elements: 4

User Option (Usage): Used

Purpose: To report errors in a data element or composite data structure and identify the location of the data element

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	M	Comp		Must use
		Description: 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				
AK401-01	722	Element Position in Segment	M	N0	1/2	Must use
		Description: 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				
AK402	725	Data Element Reference Number	O	N0	1/4	Used
		Description: Reference number used to locate the data element in the Data Element Dictionary				
AK403	723	Data Element Syntax Error Code	M	ID	1/3	Must use
		Description: Code indicating the error found after syntax edits of a data element				
		Code List Summary (Total Codes: 10, Included: 7)				
		Code	Name			
		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.			
AK404	724	Copy of Bad Data Element	O	AN	1/99	Used
		Description: This is a copy of the data element in error				

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
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Semantics:

1. In no case shall a value be used for AK404 that would generate a syntax error, e.g., an invalid character.

AK5 Transaction Set Response Trailer

Pos: 060	Max: 1
Heading - Mandatory	
Loop: AK2	Elements: 6

User Option (Usage): Must use

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

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

Description: Code indicating accept or reject condition based on the syntax editing of the transaction set

Code List Summary (Total Codes: 6, Included: 3)

Code Name

- A Accepted
- E Accepted But Errors Were Noted
- R Rejected

AK502	718	Transaction Set Syntax Error Code	O	ID	1/3	Used
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Description: Code indicating error found based on the syntax editing of a transaction set

Code List Summary (Total Codes: 25, Included: 5)

Code Name

- 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

AK503	718	Transaction Set Syntax Error Code	O	ID	1/3	Used
-------	-----	--	---	----	-----	------

Description: Code indicating error found based on the syntax editing of a transaction set

Code List Summary (Total Codes: 25, Included: 5)

Code Name

- 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

AK504	718	Transaction Set Syntax Error Code	O	ID	1/3	Used
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Description: Code indicating error found based on the syntax editing of a transaction set

Code List Summary (Total Codes: 25, Included: 5)

Code Name

- 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

AK505 718 **Transaction Set Syntax Error Code** O ID 1/3 Used

Description: Code indicating error found based on the syntax editing of a transaction set

Code List Summary (Total Codes: 25, Included: 5)

Code Name

- 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

AK506 718 **Transaction Set Syntax Error Code** O ID 1/3 Used

Description: Code indicating error found based on the syntax editing of a transaction set

Code List Summary (Total Codes: 25, Included: 5)

Code Name

- 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

User Note 1:

The codes listed for AK502 apply to every occurrence of Data Element 718 in the AK5 segment.

AK9 Functional Group Response Trailer

Pos: 070	Max: 1
Heading - Mandatory	
Loop: N/A	Elements: 9

User Option (Usage): Must use

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

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	Must use												
<p>Description: Code indicating accept or reject condition based on the syntax editing of the functional group</p> <p>Code List Summary (Total Codes: 7, Included: 4)</p> <table border="1"> <thead> <tr> <th><u>Code</u></th> <th><u>Name</u></th> </tr> </thead> <tbody> <tr> <td>A</td> <td>Accepted</td> </tr> <tr> <td>E</td> <td>Accepted, But Errors Were Noted.</td> </tr> <tr> <td>P</td> <td>Partially Accepted, At Least One Transaction Set Was Rejected</td> </tr> <tr> <td>R</td> <td>Rejected</td> </tr> </tbody> </table>							<u>Code</u>	<u>Name</u>	A	Accepted	E	Accepted, But Errors Were Noted.	P	Partially Accepted, At Least One Transaction Set Was Rejected	R	Rejected		
<u>Code</u>	<u>Name</u>																	
A	Accepted																	
E	Accepted, But Errors Were Noted.																	
P	Partially Accepted, At Least One Transaction Set Was Rejected																	
R	Rejected																	
AK902	97	Number of Transaction Sets Included	M	N0	1/6	Must use												
<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	Must use												
<p>Description: Number of Transaction Sets received</p>																		
AK904	2	Number of Accepted Transaction Sets	M	N0	1/6	Must use												
<p>Description: Number of accepted Transaction Sets in a Functional Group</p>																		
AK905	716	Functional Group Syntax Error Code	O	ID	1/3	Used												
<p>Description: Code indicating error found based on the syntax editing of the functional group header and/or trailer</p> <p>Code List Summary (Total Codes: 23, Included: 5)</p> <table border="1"> <thead> <tr> <th><u>Code</u></th> <th><u>Name</u></th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Functional Group Not Supported</td> </tr> <tr> <td>2</td> <td>Functional Group Version Not Supported</td> </tr> <tr> <td>3</td> <td>Functional Group Trailer Missing</td> </tr> <tr> <td>4</td> <td>Group Control Number in the Functional Group Header and Trailer Do Not Agree</td> </tr> <tr> <td>5</td> <td>Number of Included Transaction Sets Does Not Match Actual Count</td> </tr> </tbody> </table>							<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
<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																	
AK906	716	Functional Group Syntax Error Code	O	ID	1/3	Used												
<p>Description: Code indicating error found</p>																		

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
		based on the syntax editing of the functional group header and/or trailer				
		Code List Summary (Total Codes: 23, Included: 5)				
		Code Name				
		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				
AK907	716	Functional Group Syntax Error Code	O	ID	1/3	Used
		Description: Code indicating error found based on the syntax editing of the functional group header and/or trailer				
		Code List Summary (Total Codes: 23, Included: 5)				
		Code Name				
		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				
AK908	716	Functional Group Syntax Error Code	O	ID	1/3	Used
		Description: Code indicating error found based on the syntax editing of the functional group header and/or trailer				
		Code List Summary (Total Codes: 23, Included: 5)				
		Code Name				
		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				
AK909	716	Functional Group Syntax Error Code	O	ID	1/3	Used
		Description: Code indicating error found based on the syntax editing of the functional group header and/or trailer				
		Code List Summary (Total Codes: 23, Included: 5)				
		Code Name				
		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				

Comments:

1. If AK901 contains the value "A" or "E", then the transmitted functional group is accepted.

User Note 1:

The codes listed for AK905 apply to every occurrence of Data Element 716 in the AK9 segment.

SE Transaction Set Trailer

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

User Option (Usage): Must use

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)

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	Must use
		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	Must use
		Description: Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set				
		User Note 1: <i>This must be the same number as is in the ST segment (ST02) for the transaction set.</i>				

Comments:

- SE is the last segment of each transaction set.