

999 Implementation Acknowledgment

Functional Group ID=**FA**

Introduction:

This X12 Transaction Set contains the format and establishes the data contents of the Implementation Acknowledgment Transaction Set (999) 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 and relational analysis of the electronically encoded documents, based upon a full or implemented subset of X12 transaction sets. 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.

	<u>Pos. No.</u>	<u>Seg. ID</u>	<u>Name</u>	<u>Req. Des.</u>	<u>Max.Use</u>	<u>Loop Repeat</u>	<u>Notes and Comments</u>
M	0100	ST	Transaction Set Header	M	1		n1
M	0200	AK1	Functional Group Response Header	M	1		n2
			LOOP ID - AK2			>1	
	0300	AK2	Transaction Set Response Header	O	1		n3
			LOOP ID - IK3			>1	
	0400	IK3	Error Identification	O	1		c1
	0500	CTX	Segment Context and Business Unit Identifier	O	10		
			LOOP ID - IK4			>1	
	0600	IK4	Implementation Data Element Note	O	1		
	0700	CTX	Element Context	O	10		n4
M	0800	IK5	Implementation Transaction Set Response Trailer	M	1		n5
M	0900	AK9	Functional Group Response Trailer	M	1		
M	1000	SE	Transaction Set Trailer	M	1		

Transaction Set Notes

- Neither the 997 nor the 999 Acknowledgment shall be acknowledged, thereby preventing an endless cycle of acknowledgments of acknowledgments. Nor shall a Implementation Acknowledgment be sent to report errors in a previous Implementation Acknowledgment. There is only one Implementation Acknowledgment Transaction Set per acknowledged functional group. Only one acknowledgement, either a single Transaction Set 997 or a single Transaction Set 999, should be generated for a functional group unless mutually agreed upon.
- AK1 is used to respond to the functional group header and to start the acknowledgment for a functional group. There shall be one AK1 segment for the functional group that is being acknowledged. The Implementation Acknowledgement is generated at the point of translation, intended for the originator (not any intermediate parties). The Functional Group Header Segment (GS) is used to start the envelope for the Implementation 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.
- AK2 is used to start the acknowledgment 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.
- The CTX Segment shall be used to disambiguate a reported error that is dependent on context.
- If any implementation guide errors have been reported in IK3 or IK4, then code I5 shall be reported in the IK5 Segment.

Transaction Set Comments

1. 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 or proper subsets of transaction sets and functional groups as expressed in compliant implementation guides. 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).

Segment: **ST** Transaction Set Header
Position: 0100
Loop:
Level:
Usage: Mandatory
Max Use: 1
Purpose: To indicate the start of a transaction set and to assign a control number
Syntax Notes:
Semantic Notes:

- 1 The transaction set identifier (ST01) is used by the translation routines of the interchange partners to select the appropriate transaction set definition (e.g., 810 selects the Invoice Transaction Set).
- 2 The implementation convention reference (ST03) is used by the translation routines of the interchange partners to select the appropriate implementation convention to match the transaction set definition. When used, this implementation convention reference takes precedence over the implementation reference specified in the GS08.

Comments:
Notes: ST*999*0001*005010X231A1~

Data Element Summary

Ref.	Data Element	Name	Attributes
M	ST01 143	Transaction Set Identifier Code Code uniquely identifying a Transaction Set 999 Implementation Acknowledgment	M 1 ID 3/3
M	ST02 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 The Transaction Set Control Numbers in ST02 and SE02 must be identical. The number is assigned by the originator and must be unique within a functional group (GS-GE). The number also aids in error resolution research. For example, start with the number 0001 and increment from there.	M 1 AN 4/9
>>	ST03 1705	Implementation Convention Reference Reference assigned to identify Implementation Convention This field contains the same value as data element GS08. This value is always 005010X231 when this implementation guide is utilized. Some translator products strip off the ISA and GS segments prior to application processing. Providing the information from GS08 at this level will help ensure the appropriate application mapping is utilized at translation time. 005010 Standards Approved for Publication by ASC X12 Procedures Review Board through October 2003 005010X231A1 Standards Approved for Publication by ASC X12 Procedures Review Board through October 2003	O 1 AN 1/35

Segment: **AK1** Functional Group Response Header
Position: 0200
Loop:
Level:
Usage: Mandatory
Max Use: 1
Purpose: To start acknowledgment of a functional group
Syntax Notes:
Semantic Notes:

- 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.
- 3 AK103 is the version release industry identifier code in the GS segment (GS08) in the functional group being acknowledged.

Comments:

Notes: AK1*HC*0001*004010X098A1~

Data Element Summary

	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
M	AK101	479	Functional Identifier Code Code identifying a group of application related transaction sets Use the value in GS01 from the functional group to which this 999 transaction set is responding. Refer to 005010X231A1 Data Element Dictionary for acceptable code values.	M 1 ID 2/2
M	AK102	28	Group Control Number Assigned number originated and maintained by the sender Use the value in GS06 from the functional group to which this 999 transaction set is responding.	M 1 N0 1/9
>>	AK103	480	Version / Release / Industry Identifier Code 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 IMPLEMENTATION NAME: Version, Release, or Industry Identifier Code CODE SOURCE 881: Version / Release / Industry Identifier Code Use the value in GS08 from the functional group to which this 999 transaction set is responding.	O 1 AN 1/12
			001000 ASC X12 Standards Approved by ANSI in 1983	
			002000 ASC X12 Standards Approved by ANSI in 1986	
			002001 Draft Standards Approved by ASC X12 in November 1987	
			002002 Draft Standards Approved by ASC X12 through February 1988	
			002003 Draft Standards Approved by ASC X12 through August 1988	
			002031 Draft Standards Approved by ASC X12 through February 1989	
			002040 Draft Standards Approved by ASC X12 through May 1989	
			002041 Draft Standards Approved by ASC X12 through October 1989	
			002042 Draft Standards Approved by ASC X12 through February 1990	

003000	ASC X12 Standards Approved by ANSI in 1992
003010	Draft Standards Approved by ASC X12 through June 1990
003011	Draft Standards Approved for Publication by ASC X12 Procedures Review Board through February 1991
003012	Draft Standards Approved for Publication by ASC X12 Procedures Review Board through June 1991
003020	Draft Standards Approved for Publication by ASC X12 Procedures Review Board through October 1991
003021	Draft Standards Approved for Publication by ASC X12 Procedures Review Board through February 1992
003022	Draft Standards Approved for Publication by ASC X12 Procedures Review Board through June 1992
003030	Draft Standards Approved for Publication by ASC X12 Procedures Review Board through October 1992
003031	Draft Standards Approved for Publication by ASC X12 Procedures Review Board through February 1993
003032	Draft Standards Approved for Publication by ASC X12 Procedures Review Board through June 1993
003040	Draft Standards Approved for Publication by ASC X12 Procedures Review Board through October 1993
003041	Draft Standards Approved for Publication by ASC X12 Procedures Review Board through February 1994
003042	Draft Standards Approved for Publication by ASC X12 Procedures Review Board through June 1994
003050	Draft Standards Approved for Publication by ASC X12 Procedures Review Board through October 1994
003051	Draft Standards Approved for Publication by ASC X12 Procedures Review Board through February 1995
003052	Draft Standards Approved for Publication by ASC X12 Procedures Review Board through June 1995
003060	Draft Standards Approved for Publication by ASC X12 Procedures Review Board through October 1995
003061	Draft Standards Approved for Publication by ASC X12 Procedures Review Board through February 1996
003062	Draft Standards Approved for Publication by ASC X12 Procedures Review Board through June 1996
003070	Draft Standards Approved for Publication by ASC X12 Procedures Review Board through October 1996
003070070A1	
	Draft Standards Approved for Publication by ASC X12 Procedures Review Board through October 1996
00307070A1	
	Draft Standards Approved for Publication by ASC X12 Procedures Review Board through October 1996
003070X070A1	
	Draft Standards Approved for Publication by ASC X12 Procedures Review Board through October 1996
003071	Draft Standards Approved for Publication by ASC X12 Procedures Review Board through February 1997
003072	Draft Standards Approved for Publication by ASC X12 Procedures Review Board through June 1997
004000	ASC X12 Standards Approved by ANSI in 1997
004010	Standards Approved for Publication by ASC X12 Procedures Review Board through October 1997
004010X061	
	Standards Approved for Publication by ASC X12 Procedures Review Board through October 1997
004010X061A1	
	Standards Approved for Publication by ASC X12

004010X091	Procedures Review Board through October 1997
	Standards Approved for Publication by ASC X12
004010X091A1	Procedures Review Board through October 1997
	Standards Approved for Publication by ASC X12
004010X092	Procedures Review Board through October 1997
	Standards Approved for Publication by ASC X12
004010X092A1	Procedures Review Board through October 1997
	Standards Approved for Publication by ASC X12
004010X093	Procedures Review Board through October 1997
	Standards Approved for Publication by ASC X12
004010X093A1	Procedures Review Board through October 1997
	Standards Approved for Publication by ASC X12
004010X094	Procedures Review Board through October 1997
	Standards Approved for Publication by ASC X12
004010X094A1	Procedures Review Board through October 1997
	Standards Approved for Publication by ASC X12
004010X095	Procedures Review Board through October 1997
	Standards Approved for Publication by ASC X12
004010X095A1	Procedures Review Board through October 1997
	Standards Approved for Publication by ASC X12
004010X096	Procedures Review Board through October 1997
	Standards Approved for Publication by ASC X12
004010X096A1	Procedures Review Board through October 1997
	Standards Approved for Publication by ASC X12
004010X097	Procedures Review Board through October 1997
	Standards Approved for Publication by ASC X12
004010X097A1	Procedures Review Board through October 1997
	Standards Approved for Publication by ASC X12
004010X098	Procedures Review Board through October 1997
	Standards Approved for Publication by ASC X12
004010X098A1	Procedures Review Board through October 1997
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004011	Procedures Review Board through February 1998
	Standards Approved for Publication by ASC X12
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	Standards Approved for Publication by ASC X12
004020	Procedures Review Board through October 1998
	Standards Approved for Publication by ASC X12
004021	Procedures Review Board through February 1999
	Standards Approved for Publication by ASC X12
004022	Standards Approved for Publication by ASC X12

	Procedures Review Board through June 1999
004030	Standards Approved for Publication by ASC X12
	Procedures Review Board through October 1999
004031	Standards Approved for Publication by ASC X12
	Procedures Review Board through February 2000
004032	Standards Approved for Publication by ASC X12
	Procedures Review Board through June 2000
004040	Standards Approved for Publication by ASC X12
	Procedures Review Board through October 2000
004040X167	
	Standards Approved for Publication by ASC X12
	Procedures Review Board through October 2000
004041	Standards Approved for Publication by ASC X12
	Procedures Review Board through February 2001
004042	Standards Approved for Publication by ASC X12
	Procedures Review Board through June 2001
004050	Standards Approved for Publication by ASC X12
	Procedures Review Board through October 2001
004050X150	
	Standards Approved for Publication by ASC X12
	Procedures Review Board through October 2001
004050X151	
	Standards Approved for Publication by ASC X12
	Procedures Review Board through October 2001
004050X166	
	Standards Approved for Publication by ASC X12
	Procedures Review Board through October 2001
004051	Standards Approved for Publication by ASC X12
	Procedures Review Board through February 2002
004052	Standards Approved for Publication by ASC X12
	Procedures Review Board through June 2002
004060	Standards Approved for Publication by ASC X12
	Procedures Review Board through October 2002
004061	Standards Approved for Publication by ASC X12
	Procedures Review Board through February 2003
004062	Standards Approved for Publication by ASC X12
	Procedures Review Board through June 2003
005000	ASC X12 Standards Approved by ANSI in 2003
005010	Standards Approved for Publication by ASC X12
	Procedures Review Board through October 2003
005010X186	
	Standards Approved for Publication by ASC X12
	Procedures Review Board through October 2003
005010X187	
	Standards Approved for Publication by ASC X12
	Procedures Review Board through October 2003
005010X210	
	Standards Approved for Publication by ASC X12
	Procedures Review Board through October 2003
005010X211	
	Standards Approved for Publication by ASC X12
	Procedures Review Board through October 2003
005010X212	
	Standards Approved for Publication by ASC X12
	Procedures Review Board through October 2003
005010X213	
	Standards Approved for Publication by ASC X12
	Procedures Review Board through October 2003
005010X214	

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005010X215

Standards Approved for Publication by ASC X12
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005010X216

Standards Approved for Publication by ASC X12
Procedures Review Board through October 2003
005010X217

Standards Approved for Publication by ASC X12
Procedures Review Board through October 2003
005010X218

Standards Approved for Publication by ASC X12
Procedures Review Board through October 2003
005010X220

Standards Approved for Publication by ASC X12
Procedures Review Board through October 2003
005010X220A1

Standards Approved for Publication by ASC X12
Procedures Review Board through October 2003
005010X221

Standards Approved for Publication by ASC X12
Procedures Review Board through October 2003
005010X221A1

Standards Approved for Publication by ASC X12
Procedures Review Board through October 2003
005010X222

Standards Approved for Publication by ASC X12
Procedures Review Board through October 2003
005010X222A1

Standards Approved for Publication by ASC X12
Procedures Review Board through October 2003
005010X223

Standards Approved for Publication by ASC X12
Procedures Review Board through October 2003
005010X223A1

Standards Approved for Publication by ASC X12
Procedures Review Board through October 2003
005010X223A2

Standards Approved for Publication by ASC X12
Procedures Review Board through October 2003
005010X224

Standards Approved for Publication by ASC X12
Procedures Review Board through October 2003
005010X224A1

Standards Approved for Publication by ASC X12
Procedures Review Board through October 2003
005010X224A2

Standards Approved for Publication by ASC X12
Procedures Review Board through October 2003
005010X225

Standards Approved for Publication by ASC X12
Procedures Review Board through October 2003
005010X225A2

Standards Approved for Publication by ASC X12
Procedures Review Board through October 2003
005010X231

Standards Approved for Publication by ASC X12
Procedures Review Board through October 2003

005010X279

Standards Approved for Publication by ASC X12
Procedures Review Board through October 2003

005010X279A1

Standards Approved for Publication by ASC X12
Procedures Review Board through October 2003

Segment: **AK2** Transaction Set Response Header
Position: 0300
Loop: AK2 Optional
Level:
Usage: Optional
Max Use: 1
Purpose: To start acknowledgment of a single transaction set
Syntax Notes:
Semantic Notes:

- 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.
- 3 AK203 is the implementation convention reference, if any, found in the ST segment (ST03) in the transaction set being acknowledged.

Comments:

Notes: Situational Rule: Required when an error is present in a transaction set contained in the functional group to which this 999 transaction set is responding. If not required by this implementation guide, may be provided at the sender's discretion but cannot be required by the receiver.

TR3 Notes: 1. While it is not required that an AK2 loop be included for each transaction set received, it is required that an AK2 loop be included for each transaction set that contains an error. When AK2 loops are included in this transaction set, they must be in the same order as received in the functional group to which this 999 is responding.
 AK2*837*0001~

Data Element Summary

<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
<u>Des.</u>	<u>Element</u>		
M	AK201	143 Transaction Set Identifier Code Code uniquely identifying a Transaction Set Use the value in ST01 from the transaction set to which this 999 transaction set is responding. Refer to 005010X231A1 Data Element Dictionary for acceptable code values.	M 1 ID 3/3
M	AK202	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 Use the value in ST02 from the transaction set to which this 999 transaction set is responding.	M 1 AN 4/9
	AK203	1705 Implementation Convention Reference Reference assigned to identify Implementation Convention SITUATIONAL RULE: Required when the ST03 value is available in the transaction set to which this 999 transaction set is responding. If not required by this implementation guide, do not send. When used, this is the value in ST03 from the transaction set to which this 999 transaction set is responding.	O 1 AN 1/35

Segment: **IK3** Error Identification
Position: 0400
Loop: IK3 Optional
Level:
Usage: Optional
Max Use: 1
Purpose: To report implementation errors in a data segment and identify the location of the data segment

Syntax Notes:
Semantic Notes:
Comments:

Notes: Situational Rule: Required when an error is present in the transaction set identified in this AK2 loop and the location of the data segment containing the error can be identified by the submitter of this 999. If not required by this implementation guideline, do not send.
 IK3*DMG*31*2000*8~

Data Element Summary

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
M	IK301	721	Segment ID Code Code defining the segment ID of the data segment in error (See Appendix A - Number 77) CODE SOURCE 77: X12 Directories	M 1 ID 2/3
M	IK302	719	Segment Position in Transaction Set The numerical count position of this data segment from the start of the transaction set: the transaction set header is count position 1 The value to use in IK302 is the numerical count position of this data segment, relative to the transaction set instance (not the transaction set diagram), from the start of the transaction set. The transaction set header (i.e. ST) is count position 1.	M 1 N0 1/10
	IK303	447	Loop Identifier Code The loop ID number given on the transaction set diagram is the value for this data element in segments LS and LE SITUATIONAL RULE: Required when the data segment containing the error is within an LS loop and the LS01 value is known by the submitter of this 999, or when the data segment containing the error is within another type of loop and the loop identifier value from the transaction set diagram is known by the submitter of this 999. If not required by this implementation guide, do not send. Only the first four characters of the loop identifier must be used.	O 1 AN 1/4
>>	IK304	620	Implementation Segment Syntax Error Code Code indicating implementation error found based on the syntax editing of a segment	O 1 ID 1/3
			1 Unrecognized segment ID	
			2 Unexpected segment	
			3 Required Segment Missing	
			4 Loop Occurs Over Maximum Times	
			5 Segment Exceeds Maximum Use	
			6 Segment Not in Defined Transaction Set	
			7 Segment Not in Proper Sequence	
			8 Segment Has Data Element Errors	
			I4 Implementation "Not Used" Segment Present	
			I6 Implementation Dependent Segment Missing	
			I7 Implementation Loop Occurs Under Minimum Times	
			I8 Implementation Segment Below Minimum Use	
			I9 Implementation Dependent "Not Used" Segment Present	

Segment: **CTX** **Segment Context and Business Unit Identifier**
Position: 0500
Loop: IK3 Optional
Level:
Usage: Optional
Max Use: 10
Purpose: Describes an event context in terms of the application or implementation contexts in force at the time the event occurred and the position in the EDI stream at which that context was activated

Syntax Notes:

Semantic Notes:

Comments:

Notes:

Situational Rule: Required when the error identified in this IK3 loop was triggered by a situational requirement of the implementation guide and the error occurs at the segment level. If not required by this implementation guide, do not send.

TR3 Notes: 1. The CTX segment is used to identify the data that triggered the situational requirement.

CTX*SITUATIONAL TRIGGER*CLM*43**5:3~

CTX*SITUATIONAL TRIGGER*CLM*43**2*782~

Data Element Summary

Ref.	Data	Attributes	
<u>Des.</u>	<u>Element</u> <u>Name</u>		
M	CTX01 C998	Context Identification	M 10
	Holds information to identify a context		
M	C99801 9999	Context Name	M AN 1/35
	Holds the name or 'tag' of a context		
	Always contains the value "SITUATIONAL TRIGGER".		
	C99802 9998	Context Reference	O AN 1/35
	Holds a reference to or for a context		
	CTX02 721	Segment ID Code	O 1 ID 2/3
	Code defining the segment ID of the data segment in error (See Appendix A - Number 77)		
	CODE SOURCE 77: X12 Directories		
	CTX03 719	Segment Position in Transaction Set	O 1 N0 1/10
	The numerical count position of this data segment from the start of the transaction set: the transaction set header is count position 1		
	CTX04 447	Loop Identifier Code	O 1 AN 1/4
	The loop ID number given on the transaction set diagram is the value for this data element in segments LS and LE		
	SITUATIONAL RULE: Required when the data segment containing the situational requirement is within an LS loop and the LS01 value is known by the submitter of this 999, or when the data segment containing the situational requirement is within another type of loop and the loop identifier value from the transaction set diagram is known by the submitter of this 999. If not required by this implementation guide, do not send.		
	Only the first four characters of the loop identifier must be used.		
	CTX05 C030	Position in Segment	O 1
	Code indicating the relative position of the simple data element or composite data structure in error within a segment, count beginning with 1 for the position immediately following the segment ID; additionally indicating the relative position of a repeating structure in error, count beginning with 1 for the position immediately following the preceding element separator; additionally indicating the relative position of a component of a composite data structure in error, count beginning with 1 for the position following the preceding element or repetition separator		

			SITUATIONAL RULE: Required when the situational requirement relates to an element. If not required by this implementation guide, do not send.	
M	C03001	722	Element Position in Segment	M N0 1/2
			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	
	C03002	1528	Component Data Element Position in Composite	O N0 1/2
			To identify the component data element position within the composite that is in error	
			SITUATIONAL RULE: Required when the situational requirement relates to a component data element within a composite data structure. If not required by this implementation guide, do not send.	
	C03003	1686	Repeating Data Element Position	O N0 1/4
			To identify the specific repetition of a data element that is in error	
			SITUATIONAL RULE: Required when the situational requirement relates to a repeating data element. If not required by this implementation guide, do not send.	
	CTX06	C999	Reference in Segment	O 1
			To hold the reference number of a data element and optionally a component data element within a composite	
			SITUATIONAL RULE: Required when CTX05 is used and the data element reference number of the data element identified in CTX05-1 is known by the submitter of the 999, and it is NOT a composite data element. If not required by this implementation guide, do not send.	
M	C99901	725	Data Element Reference Number	M N0 1/4
			Reference number used to locate the data element in the Data Element Dictionary	
			CODE SOURCE 77: X12 Directories	
X	C99902	725	Data Element Reference Number	O N0 1/4

Segment: **IK4** Implementation Data Element Note
Position: 0600
Loop: IK4 Optional
Level:
Usage: Optional
Max Use: 1
Purpose: To report implementation errors in a data element or composite data structure and identify the location of the data element

Syntax Notes:
Semantic Notes:
Comments:
Notes:

Situational Rule: Required when the error in the segment described in the IK3 segment applies to a data element and the location of the data element containing the error can be identified by the submitter of the 999. If not required by this implementation guideline, do not send.
 IK4*3*1068*7*B~

Data Element Summary

Ref.	Data Element	Name	Attributes
M	IK401	Position in Segment	M 1
		Code indicating the relative position of the simple data element or composite data structure in error within a segment, count beginning with 1 for the position immediately following the segment ID; additionally indicating the relative position of a repeating structure in error, count beginning with 1 for the position immediately following the preceding element separator; additionally indicating the relative position of a component of a composite data structure in error, count beginning with 1 for the position following the preceding element or repetition separator	
M	C03001	Element Position in Segment	M N0 1/2
		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	
	C03002	Component Data Element Position in Composite	O N0 1/2
		To identify the component data element position within the composite that is in error	
		SITUATIONAL RULE: Required when the error described in this segment relates to a component data element within a composite data structure. If not required by this implementation guide, do not send.	
	C03003	Repeating Data Element Position	O N0 1/4
		To identify the specific repetition of a data element that is in error	
		SITUATIONAL RULE: Required when the error described in this segment relates to a repeating data element. If not required by this implementation guide, do not send.	
	IK402	Data Element Reference Number	O 1 N0 1/4
		Reference number used to locate the data element in the Data Element Dictionary	
		SITUATIONAL RULE: Required when the data element reference number for the errored data is known. If not required by this implementation guide, do not send.	
		CODE SOURCE 77: X12 Directories	
M	IK403	Implementation Data Element Syntax Error Code	M 1 ID 1/3
		Code indicating the implementation error found after syntax edits of a data element	
		1 Required 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
- 8 Invalid Date
- 9 Invalid Time
- 10 Exclusion Condition Violated
- 12 Too Many Repetitions
- 13 Too Many Components
- I10 Implementation "Not Used" Data Element Present
- I11 Implementation Too Few Repetitions
- I12 Implementation Pattern Match Failure
- I13 Implementation Dependent "Not Used" Data Element Present
- I6 Code Value Not Used in Implementation
- I9 Implementation Dependent Data Element Missing

IK404 724 Copy of Bad Data Element O 1 AN 1/99

This is a copy of the data element in error

SITUATIONAL RULE: Required unless invalid characters are present, data is missing, or the data is from a binary data element. If not required by this implementation guide, do not send.

Segment: **CTX** **Element Context**
Position: 0700
Loop: IK4 Optional
Level:
Usage: Optional
Max Use: 10
Purpose: Describes an event context in terms of the application or implementation contexts in force at the time the event occurred and the position in the EDI stream at which that context was activated

Syntax Notes:

Semantic Notes:

Comments:

Notes:

Situational Rule: Required when the error identified in this IK4 loop was triggered by a situational requirement of the implementation guide and the error occurs at the element level. If not required by this implementation guide, do not send.

TR3 Notes: 1. The CTX segment is used to identify the data that triggered the situational requirement.

CTX*SITUATIONAL TRIGGER*CLM*43**5:3~

CTX*SITUATIONAL TRIGGER*CLM*43**2*782~

Data Element Summary

	<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
	<u>Des.</u>	<u>Element</u>		
M	CTX01	C998	Context Identification Holds information to identify a context	M 10
M	C99801	9999	Context Name Holds the name or 'tag' of a context Always contains the value "SITUATIONAL TRIGGER".	M AN 1/35
X	C99802	9998	Context Reference	O AN 1/35
>>	CTX02	721	Segment ID Code Code defining the segment ID of the data segment in error (See Appendix A - Number 77) CODE SOURCE 77: X12 Directories	O 1 ID 2/3
>>	CTX03	719	Segment Position in Transaction Set The numerical count position of this data segment from the start of the transaction set: the transaction set header is count position 1	O 1 N0 1/10
	CTX04	447	Loop Identifier Code The loop ID number given on the transaction set diagram is the value for this data element in segments LS and LE SITUATIONAL RULE: Required when the data segment containing the situational requirement is within an LS loop and the LS01 value is known by the submitter of this 999, or when the data segment containing the situational requirement is within another type of loop and the loop identifier value from the transaction set diagram is known by the submitter of this 999. If not required by this implementation guide, do not send.	O 1 AN 1/4
	CTX05	C030	Position in Segment Only the first four characters of the loop identifier must be used. Code indicating the relative position of the simple data element or composite data structure in error within a segment, count beginning with 1 for the position immediately following the segment ID; additionally indicating the relative position of a repeating structure in error, count beginning with 1 for the position immediately following the preceding element separator; additionally indicating the relative position of a component of a composite data structure in error, count beginning with 1 for the position following the preceding element or repetition separator SITUATIONAL RULE: Required when the situational requirement relates to	O 1

			an element. If not required by this implementation guide, do not send.		
M	C03001	722	Element Position in Segment 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	M	N0 1/2
	C03002	1528	Component Data Element Position in Composite To identify the component data element position within the composite that is in error SITUATIONAL RULE: Required when the situational requirement relates to a component data element within a composite data structure. If not required by this implementation guide, do not send.	O	N0 1/2
	C03003	1686	Repeating Data Element Position To identify the specific repetition of a data element that is in error SITUATIONAL RULE: Required when the situational requirement relates to a repeating data element. If not required by this implementation guide, do not send.	O	N0 1/4
	CTX06	C999	Reference in Segment To hold the reference number of a data element and optionally a component data element within a composite SITUATIONAL RULE: Required when CTX05 is used and the data element reference number of the data element identified in CTX05-1 is known by the submitter of the 999, and it is NOT a composite data element. If not required by this implementation guide, do not send.	O	1
M	C99901	725	Data Element Reference Number Reference number used to locate the data element in the Data Element Dictionary CODE SOURCE 77: X12 Directories	M	N0 1/4
X	C99902	725	Data Element Reference Number	O	N0 1/4

Segment: **IK5** Implementation Transaction Set Response Trailer
Position: 0800
Loop: AK2 Optional
Level:
Usage: Mandatory
Max Use: 1
Purpose: To acknowledge acceptance or rejection and report implementation errors in a transaction set

Syntax Notes:
Semantic Notes:
Comments:
Notes:

IK5*R*5~

Data Element Summary

Ref.	Data Element	Name	Attributes
M	IK501	717 Transaction Set Acknowledgment Code	M 1 ID 1/1
		Code indicating accept or reject condition based on the syntax editing of the transaction set	
		A Accepted	
		E Accepted But Errors Were Noted	
		The transaction set indicated in this AK2 loop contained errors, but was forwarded for further processing.	
		M Rejected, Message Authentication Code (MAC) Failed	
		R Rejected	
		The transaction set indicated in this AK2 loop contained errors, and was NOT forwarded for further processing. It will need to be corrected and resubmitted.	
		W Rejected, Assurance Failed Validity Tests	
		X Rejected, Content After Decryption Could Not Be Analyzed	
	IK502	618 Implementation Transaction Set Syntax Error Code	O 1 ID 1/3
		Code indicating implementation error found based on the syntax editing of a transaction set	
		SITUATIONAL RULE: Required when IK501 = E or R. If not required by this implementation guide, do not send.	
		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	
		6 Missing or Invalid Transaction Set Identifier	
		7 Missing or Invalid Transaction Set Control Number	
		8 Authentication Key Name Unknown	
		9 Encryption Key Name Unknown	
		10 Requested Service (Authentication or Encrypted) Not Available	
		11 Unknown Security Recipient	
		12 Incorrect Message Length (Encryption Only)	
		13 Message Authentication Code Failed	
		15 Unknown Security Originator	
		16 Syntax Error in Decrypted Text	
		17 Security Not Supported	
		18 Transaction Set not in Functional Group	

- 19 Invalid Transaction Set Implementation Convention Reference
- 23 Transaction Set Control Number Not Unique within the Functional Group
- 24 S3E Security End Segment Missing for S3S Security Start Segment
- 25 S3S Security Start Segment Missing for S3E Security End Segment
- 26 S4E Security End Segment Missing for S4S Security Start Segment
- 27 S4S Security Start Segment Missing for S4E Security End Segment
- I5 Implementation One or More Segments in Error
- I6 Implementation Convention Not Supported

IK503 618 Implementation Transaction Set Syntax Error Code O 1 ID 1/3

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

SITUATIONAL RULE: Required when IK501 = E or R, and IK502 has been used, and there are additional error codes to report. If not required by this implementation guide, do not send.

- 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
- 6 Missing or Invalid Transaction Set Identifier
- 7 Missing or Invalid Transaction Set Control Number
- 8 Authentication Key Name Unknown
- 9 Encryption Key Name Unknown
- 10 Requested Service (Authentication or Encrypted) Not Available
- 11 Unknown Security Recipient
- 12 Incorrect Message Length (Encryption Only)
- 13 Message Authentication Code Failed
- 15 Unknown Security Originator
- 16 Syntax Error in Decrypted Text
- 17 Security Not Supported
- 18 Transaction Set not in Functional Group
- 19 Invalid Transaction Set Implementation Convention Reference
- 23 Transaction Set Control Number Not Unique within the Functional Group
- 24 S3E Security End Segment Missing for S3S Security Start Segment
- 25 S3S Security Start Segment Missing for S3E Security End Segment
- 26 S4E Security End Segment Missing for S4S Security Start Segment
- 27 S4S Security Start Segment Missing for S4E Security End Segment
- I6 Implementation Convention Not Supported

IK504 618 Implementation Transaction Set Syntax Error Code O 1 ID 1/3

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

SITUATIONAL RULE: Required when IK501 = E or R, and IK502 and IK503

have been used, and there are additional error codes to report. If not required by this implementation guide, do not send.

- 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
- 6 Missing or Invalid Transaction Set Identifier
- 7 Missing or Invalid Transaction Set Control Number
- 8 Authentication Key Name Unknown
- 9 Encryption Key Name Unknown
- 10 Requested Service (Authentication or Encrypted) Not Available
- 11 Unknown Security Recipient
- 12 Incorrect Message Length (Encryption Only)
- 13 Message Authentication Code Failed
- 15 Unknown Security Originator
- 16 Syntax Error in Decrypted Text
- 17 Security Not Supported
- 18 Transaction Set not in Functional Group
- 19 Invalid Transaction Set Implementation Convention Reference
- 23 Transaction Set Control Number Not Unique within the Functional Group
- 24 S3E Security End Segment Missing for S3S Security Start Segment
- 25 S3S Security Start Segment Missing for S3E Security End Segment
- 26 S4E Security End Segment Missing for S4S Security Start Segment
- 27 S4S Security Start Segment Missing for S4E Security End Segment
- I6 Implementation Convention Not Supported

IK505 618 Implementation Transaction Set Syntax Error Code O 1 ID 1/3

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

SITUATIONAL RULE: Required when IK501 = E or R, and IK502, IK503, and IK504 have been used, and there are additional error codes to report. If not required by this implementation guide, do not send.

- 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
- 6 Missing or Invalid Transaction Set Identifier
- 7 Missing or Invalid Transaction Set Control Number
- 8 Authentication Key Name Unknown
- 9 Encryption Key Name Unknown
- 10 Requested Service (Authentication or Encrypted) Not Available
- 11 Unknown Security Recipient
- 12 Incorrect Message Length (Encryption Only)

- 13 Message Authentication Code Failed
- 15 Unknown Security Originator
- 16 Syntax Error in Decrypted Text
- 17 Security Not Supported
- 18 Transaction Set not in Functional Group
- 19 Invalid Transaction Set Implementation Convention Reference
- 23 Transaction Set Control Number Not Unique within the Functional Group
- 24 S3E Security End Segment Missing for S3S Security Start Segment
- 25 S3S Security Start Segment Missing for S3E Security End Segment
- 26 S4E Security End Segment Missing for S4S Security Start Segment
- 27 S4S Security Start Segment Missing for S4E Security End Segment
- I6 Implementation Convention Not Supported

IK506 618 Implementation Transaction Set Syntax Error Code O 1 ID 1/3

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

SITUATIONAL RULE: Required when IK501 = E or R, and IK502, IK503, IK504, and IK505 have been used, and there are additional error codes to report. If not required by this implementation guide, do not send.

- 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
- 6 Missing or Invalid Transaction Set Identifier
- 7 Missing or Invalid Transaction Set Control Number
- 8 Authentication Key Name Unknown
- 9 Encryption Key Name Unknown
- 10 Requested Service (Authentication or Encrypted) Not Available
- 11 Unknown Security Recipient
- 12 Incorrect Message Length (Encryption Only)
- 13 Message Authentication Code Failed
- 15 Unknown Security Originator
- 16 Syntax Error in Decrypted Text
- 17 Security Not Supported
- 18 Transaction Set not in Functional Group
- 19 Invalid Transaction Set Implementation Convention Reference
- 23 Transaction Set Control Number Not Unique within the Functional Group
- 24 S3E Security End Segment Missing for S3S Security Start Segment
- 25 S3S Security Start Segment Missing for S3E Security End Segment
- 26 S4E Security End Segment Missing for S4S Security Start Segment
- 27 S4S Security Start Segment Missing for S4E Security End Segment
- I6 Implementation Convention Not Supported

Segment: **AK9** Functional Group Response Trailer
Position: 0900
Loop:
Level:
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

Syntax Notes:

Semantic Notes:

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

Notes: AK9*R*1*1*0~

Data Element Summary

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
M	AK901	715	Functional Group Acknowledge Code Code indicating accept or reject condition based on the syntax editing of the functional group A Accepted This code value can only be used if there are no AK2 loops or all IK501 values = 'A'. E Accepted, But Errors Were Noted. The functional group indicated in this 999 contained errors, but was forwarded for further processing. M Rejected, Message Authentication Code (MAC) Failed P Partially Accepted, At Least One Transaction Set Was Rejected R Rejected The functional group indicated in this 999 contained errors, and was NOT forwarded for further processing. It will need to be corrected and resubmitted. W Rejected, Assurance Failed Validity Tests X Rejected, Content After Decryption Could Not Be Analyzed	M 1 ID 1/1
M	AK902	97	Number of Transaction Sets Included Total number of transaction sets included in the functional group or interchange (transmission) group terminated by the trailer containing this data element	M 1 N0 1/6
M	AK903	123	Number of Received Transaction Sets Number of Transaction Sets received	M 1 N0 1/6
M	AK904	2	Number of Accepted Transaction Sets Number of accepted Transaction Sets in a Functional Group	M 1 N0 1/6
	AK905	716	Functional Group Syntax Error Code Code indicating error found based on the syntax editing of the functional group header and/or trailer SITUATIONAL RULE: Required when AK901 = E or R, and the error is at the functional group level. If not required by this implementation guide, do not send. 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	O 1 ID 1/3

- 6 Group Control Number Violates Syntax
- 10 Authentication Key Name Unknown
- 11 Encryption Key Name Unknown
- 12 Requested Service (Authentication or Encryption) Not Available
- 13 Unknown Security Recipient
- 14 Unknown Security Originator
- 15 Syntax Error in Decrypted Text
- 16 Security Not Supported
- 17 Incorrect Message Length (Encryption Only)
- 18 Message Authentication Code Failed
- 19 Functional Group Control Number not Unique within Interchange
- 23 S3E Security End Segment Missing for S3S Security Start Segment
- 24 S3S Security Start Segment Missing for S3E End Segment
- 25 S4E Security End Segment Missing for S4S Security Start Segment
- 26 S4S Security Start Segment Missing for S4E Security End Segment

AK906 716 Functional Group Syntax Error Code O 1 ID 1/3

Code indicating error found based on the syntax editing of the functional group header and/or trailer

SITUATIONAL RULE: Required when AK901 = E or R, and AK905 has been used, and there are additional error codes to report. If not required by this implementation guide, do not send.

- 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
- 6 Group Control Number Violates Syntax
- 10 Authentication Key Name Unknown
- 11 Encryption Key Name Unknown
- 12 Requested Service (Authentication or Encryption) Not Available
- 13 Unknown Security Recipient
- 14 Unknown Security Originator
- 15 Syntax Error in Decrypted Text
- 16 Security Not Supported
- 17 Incorrect Message Length (Encryption Only)
- 18 Message Authentication Code Failed
- 19 Functional Group Control Number not Unique within Interchange
- 23 S3E Security End Segment Missing for S3S Security Start Segment
- 24 S3S Security Start Segment Missing for S3E End Segment
- 25 S4E Security End Segment Missing for S4S Security Start Segment
- 26 S4S Security Start Segment Missing for S4E Security End Segment

AK907 716 Functional Group Syntax Error Code O 1 ID 1/3

Code indicating error found based on the syntax editing of the functional group header and/or trailer

SITUATIONAL RULE: Required when AK901 = E or R, and AK905 and AK906 have been used, and there are additional error codes to report. If not required by this implementation guide, do not send.

- 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
- 6 Group Control Number Violates Syntax
- 10 Authentication Key Name Unknown
- 11 Encryption Key Name Unknown
- 12 Requested Service (Authentication or Encryption) Not Available
- 13 Unknown Security Recipient
- 14 Unknown Security Originator
- 15 Syntax Error in Decrypted Text
- 16 Security Not Supported
- 17 Incorrect Message Length (Encryption Only)
- 18 Message Authentication Code Failed
- 19 Functional Group Control Number not Unique within Interchange
- 23 S3E Security End Segment Missing for S3S Security Start Segment
- 24 S3S Security Start Segment Missing for S3E End Segment
- 25 S4E Security End Segment Missing for S4S Security Start Segment
- 26 S4S Security Start Segment Missing for S4E Security End Segment

AK908 716 Functional Group Syntax Error Code O 1 ID 1/3

Code indicating error found based on the syntax editing of the functional group header and/or trailer

SITUATIONAL RULE: Required when AK901 = E or R, and AK905, AK906, and AK907 have been used, and there are additional error codes to report. If not required by this implementation guide, do not send.

- 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
- 6 Group Control Number Violates Syntax
- 10 Authentication Key Name Unknown
- 11 Encryption Key Name Unknown
- 12 Requested Service (Authentication or Encryption) Not Available
- 13 Unknown Security Recipient
- 14 Unknown Security Originator
- 15 Syntax Error in Decrypted Text
- 16 Security Not Supported
- 17 Incorrect Message Length (Encryption Only)

- 18 Message Authentication Code Failed
- 19 Functional Group Control Number not Unique within Interchange
- 23 S3E Security End Segment Missing for S3S Security Start Segment
- 24 S3S Security Start Segment Missing for S3E End Segment
- 25 S4E Security End Segment Missing for S4S Security Start Segment
- 26 S4S Security Start Segment Missing for S4E Security End Segment

AK909 716 Functional Group Syntax Error Code O 1 ID 1/3

Code indicating error found based on the syntax editing of the functional group header and/or trailer

SITUATIONAL RULE: Required when AK901 = E or R, and AK905, AK906, AK907, and AK908 have been used, and there are additional error codes to report. If not required by this implementation guide, do not send.

- 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
- 6 Group Control Number Violates Syntax
- 10 Authentication Key Name Unknown
- 11 Encryption Key Name Unknown
- 12 Requested Service (Authentication or Encryption) Not Available
- 13 Unknown Security Recipient
- 14 Unknown Security Originator
- 15 Syntax Error in Decrypted Text
- 16 Security Not Supported
- 17 Incorrect Message Length (Encryption Only)
- 18 Message Authentication Code Failed
- 19 Functional Group Control Number not Unique within Interchange
- 23 S3E Security End Segment Missing for S3S Security Start Segment
- 24 S3S Security Start Segment Missing for S3E End Segment
- 25 S4E Security End Segment Missing for S4S Security Start Segment
- 26 S4S Security Start Segment Missing for S4E Security End Segment

Segment: **SE** Transaction Set Trailer
Position: 1000
Loop:
Level:
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)

Syntax Notes:

Semantic Notes:

Comments: 1 SE is the last segment of each transaction set.

Notes: SE*53*0001~

Data Element Summary

	Ref.	Data			
	Des.	Element	Name		Attributes
M	SE01	96	Number of Included Segments	M	1 N0 1/10
			Total number of segments included in a transaction set including ST and SE segments		
M	SE02	329	Transaction Set Control Number	M	1 AN 4/9
			Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set		
			The Transaction Set Control Numbers in ST02 and SE02 must be identical.		
			The number is assigned by the originator and must be unique within a functional group (GS-GE). The number also aids in error resolution research.		
			For example, start with the number 0001 and increment from there.		