

# **Customer EDI Guidelines**

## **997 Functional Acknowledgment**

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# 997 Functional Acknowledgment

## Functional Group=FA

This Draft Standard for Trial Use contains the format and establishes the data contents of the Functional Acknowledgment Transaction Set (997) for use within the context of an Electronic Data Interchange (EDI) environment. The transaction set can be used to define the control structures for a set of acknowledgments to indicate the results of the syntactical analysis of the electronically encoded documents. The encoded documents are the transaction sets, which are grouped in functional groups, used in defining transactions for business data interchange. This standard does not cover the semantic meaning of the information encoded in the transaction sets.

### Segments:

<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>
	ISA	Interchange Control Header	M	1			Used
	GS	Functional Group Header	M	1			Used

### 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**

030	AK2	Transaction Set Response Header	O	1		N1/030	Used
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#### **LOOP ID - AK3**

**999999**

040	AK3	Data Segment Note	O	1			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

### Segments:

<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>
	GE	Functional Group Trailer	M	1			Used
	IEA	Interchange Control Trailer	M	1			Used

### Notes:

- 1/010 These acknowledgments shall not be acknowledged, thereby preventing an endless cycle of acknowledgments of acknowledgments. Nor shall a Functional Acknowledgment be sent to report errors in a previous Functional Acknowledgment.  
The Functional Group Header Segment (GS) is used to start the envelope for the Functional 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.  
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.
- 1/030 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.

# ISA Interchange Control Header

Pos:	Max: 1
- Mandatory	
Loop: N/A	Elements: 16

To start and identify an interchange of zero or more functional groups and interchange-related control 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>
ISA01	I01	<b>Authorization Information Qualifier</b> <b>Description:</b> Code to identify the type of information in the Authorization Information All valid standard codes are used.	M	ID	2/2	Must use
ISA02	I02	<b>Authorization Information</b> <b>Description:</b> Information used for additional identification or authorization of the interchange sender or the data in the interchange; the type of information is set by the Authorization Information Qualifier (I01)	M	AN	10/10	Must use
ISA03	I03	<b>Security Information Qualifier</b> <b>Description:</b> Code to identify the type of information in the Security Information All valid standard codes are used.	M	ID	2/2	Must use
ISA04	I04	<b>Security Information</b> <b>Description:</b> This is used for identifying the security information about the interchange sender or the data in the interchange; the type of information is set by the Security Information Qualifier (I03)	M	AN	10/10	Must use
ISA05	I05	<b>Interchange ID Qualifier</b> <b>Description:</b> Qualifier to designate the system/method of code structure used to designate the sender or receiver ID element being qualified All valid standard codes are used.	M	ID	2/2	Must use
ISA06	I06	<b>Interchange Sender ID</b> <b>Description:</b> Identification code published by the sender for other parties to use as the receiver ID to route data to them; the sender always codes this value in the sender ID element	M	AN	15/15	Must use
ISA07	I05	<b>Interchange ID Qualifier</b> <b>Description:</b> Qualifier to designate the system/method of code structure used to designate the sender or receiver ID element being qualified All valid standard codes are used.	M	ID	2/2	Must use
ISA08	I07	<b>Interchange Receiver ID</b> <b>Description:</b> Identification code published by the receiver of the data; When sending, it is used by the sender as their sending ID, thus other parties sending to them will use this as a receiving ID to route data to them	M	AN	15/15	Must use
ISA09	I08	<b>Interchange Date</b> <b>Description:</b> Date of the interchange	M	DT	6/6	Must use
ISA10	I09	<b>Interchange Time</b> <b>Description:</b> Time of the interchange	M	TM	4/4	Must use
ISA11	I10	<b>Interchange Control Standards Identifier</b> <b>Description:</b> Code to identify the agency responsible for the control standard used by the message that is enclosed by the interchange header and trailer All valid standard codes are used.	M	ID	1/1	Must use
ISA12	I11	<b>Interchange Control Version Number</b>	M	ID	5/5	Must use

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>	<u>Usage</u>
		<b>Description:</b> This version number covers the interchange control segments All valid standard codes are used.				<b>use</b>
ISA13	I12	<b>Interchange Control Number</b> <b>Description:</b> A control number assigned by the interchange sender	M	N0	9/9	<b>Must use</b>
ISA14	I13	<b>Acknowledgment Requested</b> <b>Description:</b> Code sent by the sender to request an interchange acknowledgment (TA1) All valid standard codes are used.	M	ID	1/1	<b>Must use</b>
ISA15	I14	<b>Usage Indicator</b> <b>Description:</b> Code to indicate whether data enclosed by this interchange envelope is test, production or information All valid standard codes are used.	M	ID	1/1	<b>Must use</b>
ISA16	I15	<b>Component Element Separator</b> <b>Description:</b> Type is not applicable; the component element separator is a delimiter and not a data element; this field provides the delimiter used to separate component data elements within a composite data structure; this value must be different than the data element separator and the segment terminator	M		1/1	<b>Must use</b>

**GS****Functional Group Header**

<b>Pos:</b>	<b>Max: 1</b>
- Mandatory	
<b>Loop: N/A</b>	<b>Elements: 8</b>

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

**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>
GS01	479	<b>Functional Identifier Code</b> <b>Description:</b> Code identifying a group of application related transaction sets All valid standard codes are used.	M	ID	2/2	Must use
GS02	142	<b>Application Sender's Code</b> <b>Description:</b> Code identifying party sending transmission; codes agreed to by trading partners	M	AN	2/15	Must use
GS03	124	<b>Application Receiver's Code</b> <b>Description:</b> Code identifying party receiving transmission. Codes agreed to by trading partners	M	AN	2/15	Must use
GS04	373	<b>Date</b> <b>Description:</b> Date expressed as CCYYMMDD	M	DT	8/8	Must use
GS05	337	<b>Time</b> <b>Description:</b> Time expressed in 24-hour clock time as follows: HHMM, or HHMMSS, or HHMMSSD, or HHMMSSDD, where H = hours (00-23), M = minutes (00-59), S = integer seconds (00-59) and DD = decimal seconds; decimal seconds are expressed as follows: D = tenths (0-9) and DD = hundredths (00-99)	M	TM	4/8	Must use
GS06	28	<b>Group Control Number</b> <b>Description:</b> Assigned number originated and maintained by the sender	M	N0	1/9	Must use
GS07	455	<b>Responsible Agency Code</b> <b>Description:</b> Code used in conjunction with Data Element 480 to identify the issuer of the standard All valid standard codes are used.	M	ID	1/2	Must use
GS08	480	<b>Version / Release / Industry Identifier Code</b> <b>Description:</b> 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 All valid standard codes are used.	M	AN	1/12	Must use

**Semantics:**

- GS04 is the group date.
- GS05 is the group time.
- The data interchange control number GS06 in this header must be identical to the same data element in the associated functional group trailer, GE02.

**Comments:**

- A functional group of related transaction sets, within the scope of X12 standards, consists of a collection of similar transaction sets enclosed by a functional group header and a functional group trailer.

# ST

## Transaction Set Header

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

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	<b>Transaction Set Identifier Code</b> <b>Description:</b> Code uniquely identifying a Transaction Set	M	ID	3/3	Must use												
		<table border="1"> <thead> <tr> <th><u>Code</u></th> <th><u>Name</u></th> </tr> </thead> <tbody> <tr> <td>810</td> <td>Invoice</td> </tr> <tr> <td>830</td> <td>Planning Schedule with Release Capability</td> </tr> <tr> <td>850</td> <td>Purchase Order</td> </tr> <tr> <td>855</td> <td>Purchase Order Acknowledgment</td> </tr> <tr> <td>856</td> <td>Ship Notice/Manifest</td> </tr> </tbody> </table>	<u>Code</u>	<u>Name</u>	810	Invoice	830	Planning Schedule with Release Capability	850	Purchase Order	855	Purchase Order Acknowledgment	856	Ship Notice/Manifest				
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830	Planning Schedule with Release Capability																	
850	Purchase Order																	
855	Purchase Order Acknowledgment																	
856	Ship Notice/Manifest																	
ST02	329	<b>Transaction Set Control Number</b> <b>Description:</b> Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set	M	AN	4/9	Must use												

**Semantics:**

- 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

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	<b>Functional Identifier Code</b> <b>Description:</b> Code identifying a group of application related transaction sets	M	ID	2/2	Must use												
		<table border="1"> <thead> <tr> <th><u>Code</u></th> <th><u>Name</u></th> </tr> </thead> <tbody> <tr> <td>IN</td> <td>Invoice Information (810,819)</td> </tr> <tr> <td>PO</td> <td>Purchase Order (850)</td> </tr> <tr> <td>PR</td> <td>Purchase Order Acknowledgement (855)</td> </tr> <tr> <td>PS</td> <td>Planning Schedule with Release Capability (830)</td> </tr> <tr> <td>SH</td> <td>Ship Notice/Manifest (856)</td> </tr> </tbody> </table>	<u>Code</u>	<u>Name</u>	IN	Invoice Information (810,819)	PO	Purchase Order (850)	PR	Purchase Order Acknowledgement (855)	PS	Planning Schedule with Release Capability (830)	SH	Ship Notice/Manifest (856)				
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PR	Purchase Order Acknowledgement (855)																	
PS	Planning Schedule with Release Capability (830)																	
SH	Ship Notice/Manifest (856)																	
AK102	28	<b>Group Control Number</b> <b>Description:</b> Assigned number originated and maintained by the sender	M	N0	1/9	Must use												

**Semantics:**

- AK101 is the functional ID found in the GS segment (GS01) in the functional group being acknowledged.
- AK102 is the functional group control number found in the GS segment in the functional group being acknowledged.

# AK2 Transaction Set Response Header

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

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	<b>Transaction Set Identifier Code</b> <b>Description:</b> Code uniquely identifying a Transaction Set	M	ID	3/3	Must use												
		<table border="1"> <thead> <tr> <th><u>Code</u></th> <th><u>Name</u></th> </tr> </thead> <tbody> <tr> <td>810</td> <td>Invoice</td> </tr> <tr> <td>830</td> <td>Planning Schedule with Release Capability</td> </tr> <tr> <td>850</td> <td>Purchase Order</td> </tr> <tr> <td>855</td> <td>Purchase Order Acknowledgment</td> </tr> <tr> <td>856</td> <td>Ship Notice/Manifest</td> </tr> </tbody> </table>	<u>Code</u>	<u>Name</u>	810	Invoice	830	Planning Schedule with Release Capability	850	Purchase Order	855	Purchase Order Acknowledgment	856	Ship Notice/Manifest				
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810	Invoice																	
830	Planning Schedule with Release Capability																	
850	Purchase Order																	
855	Purchase Order Acknowledgment																	
856	Ship Notice/Manifest																	
AK202	329	<b>Transaction Set Control Number</b> <b>Description:</b> Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set	M	AN	4/9	Must use												

**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.

# AK3 Data Segment Note

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

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

# AK4 Data Element Note

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

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	<b>Position in Segment</b> <b>Description:</b> 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	M	Comp		Must use
	722	<b>Element Position in Segment</b> <b>Description:</b> 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	Must use
	1528	<b>Component Data Element Position in Composite</b> <b>Description:</b> To identify the component data element position within the composite that is in error	O	N0	1/2	Used
AK402	725	<b>Data Element Reference Number</b> <b>Description:</b> Reference number used to locate the data element in the Data Element Dictionary	O	N0	1/4	Used
AK403	723	<b>Data Element Syntax Error Code</b> <b>Description:</b> Code indicating the error found after syntax edits of a data element All valid standard codes are used.	M	ID	1/3	Must use
AK404	724	<b>Copy of Bad Data Element</b> <b>Description:</b> This is a copy of the data element in error	O	AN	1/99	Used

## Semantics:

- 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

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	<b>Transaction Set Acknowledgment Code</b> <b>Description:</b> Code indicating accept or reject condition based on the syntax editing of the transaction set	M	ID	1/1	Must use								
		<table border="0"> <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>R</td> <td>Rejected</td> </tr> </tbody> </table>	<u>Code</u>	<u>Name</u>	A	Accepted	E	Accepted But Errors Were Noted	R	Rejected				
<u>Code</u>	<u>Name</u>													
A	Accepted													
E	Accepted But Errors Were Noted													
R	Rejected													
AK502	718	<b>Transaction Set Syntax Error Code</b> <b>Description:</b> Code indicating error found based on the syntax editing of a transaction set All valid standard codes are used.	O	ID	1/3	Used								
AK503	718	<b>Transaction Set Syntax Error Code</b> <b>Description:</b> Code indicating error found based on the syntax editing of a transaction set All valid standard codes are used.	O	ID	1/3	Used								
AK504	718	<b>Transaction Set Syntax Error Code</b> <b>Description:</b> Code indicating error found based on the syntax editing of a transaction set All valid standard codes are used.	O	ID	1/3	Used								
AK505	718	<b>Transaction Set Syntax Error Code</b> <b>Description:</b> Code indicating error found based on the syntax editing of a transaction set All valid standard codes are used.	O	ID	1/3	Used								
AK506	718	<b>Transaction Set Syntax Error Code</b> <b>Description:</b> Code indicating error found based on the syntax editing of a transaction set All valid standard codes are used.	O	ID	1/3	Used								

# AK9 Functional Group Response Trailer

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

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	<b>Functional Group Acknowledge Code</b> <b>Description:</b> Code indicating accept or reject condition based on the syntax editing of the functional group	M	ID	1/1	Must use										
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<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	<b>Number of Transaction Sets Included</b> <b>Description:</b> Total number of transaction sets included in the functional group or interchange (transmission) group terminated by the trailer containing this data element	M	N0	1/6	Must use										
AK903	123	<b>Number of Received Transaction Sets</b> <b>Description:</b> Number of Transaction Sets received	M	N0	1/6	Must use										
AK904	2	<b>Number of Accepted Transaction Sets</b> <b>Description:</b> Number of accepted Transaction Sets in a Functional Group	M	N0	1/6	Must use										
AK905	716	<b>Functional Group Syntax Error Code</b> <b>Description:</b> Code indicating error found based on the syntax editing of the functional group header and/or trailer All valid standard codes are used.	O	ID	1/3	Used										
AK906	716	<b>Functional Group Syntax Error Code</b> <b>Description:</b> Code indicating error found based on the syntax editing of the functional group header and/or trailer All valid standard codes are used.	O	ID	1/3	Used										
AK907	716	<b>Functional Group Syntax Error Code</b> <b>Description:</b> Code indicating error found based on the syntax editing of the functional group header and/or trailer All valid standard codes are used.	O	ID	1/3	Used										
AK908	716	<b>Functional Group Syntax Error Code</b> <b>Description:</b> Code indicating error found based on the syntax editing of the functional group header and/or trailer All valid standard codes are used.	O	ID	1/3	Used										
AK909	716	<b>Functional Group Syntax Error Code</b> <b>Description:</b> Code indicating error found based on the syntax editing of the functional group header and/or trailer All valid standard codes are used.	O	ID	1/3	Used										

## Comments:

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

**SE****Transaction Set Trailer**

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

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	<b>Number of Included Segments</b> <b>Description:</b> Total number of segments included in a transaction set including ST and SE segments	M	N0	1/10	Must use
SE02	329	<b>Transaction Set Control Number</b> <b>Description:</b> Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set	M	AN	4/9	Must use

**Comments:**

- SE is the last segment of each transaction set.

# GE Functional Group Trailer

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

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

## 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>
GE01	97	<b>Number of Transaction Sets Included</b> <b>Description:</b> Total number of transaction sets included in the functional group or interchange (transmission) group terminated by the trailer containing this data element	M	N0	1/6	Must use
GE02	28	<b>Group Control Number</b> <b>Description:</b> Assigned number originated and maintained by the sender	M	N0	1/9	Must use

## Semantics:

- The data interchange control number GE02 in this trailer must be identical to the same data element in the associated functional group header, GS06.

## Comments:

- The use of identical data interchange control numbers in the associated functional group header and trailer is designed to maximize functional group integrity. The control number is the same as that used in the corresponding header.

**IEA****Interchange Control Trailer**

<b>Pos:</b>	<b>Max: 1</b>
<b>- Mandatory</b>	
<b>Loop: N/A</b>	<b>Elements: 2</b>

To define the end of an interchange of zero or more functional groups and interchange-related control 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>
IEA01	I16	<b>Number of Included Functional Groups</b> <b>Description:</b> A count of the number of functional groups included in an interchange	M	N0	1/5	Must use
IEA02	I12	<b>Interchange Control Number</b> <b>Description:</b> A control number assigned by the interchange sender	M	N0	9/9	Must use