

# **997 Status Details (Ocean) 4010 Implementation Guide**

**Version: 2.0**

**Company: CargoSmart Limited**

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# 997 Functional Acknowledgment

## 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.

### Not Defined:

<u>Page</u>	<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>
4		ISA	Interchange Control Header	M	1			Must use
7		GS	Functional Group Header	M	1			Must use

### Heading:

<u>Page</u>	<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>
9	010	ST	Transaction Set Header	M	1		N1/010	Must use
10	020	AK1	Functional Group Response Header	M	1		N1/020	Must use
11	<b><u>LOOP ID - AK2</u></b>					<b><u>999999</u></b>	<b><u>N1/030L</u></b>	
12	030	AK2	Transaction Set Response Header	O	1		N1/030	Used
13	<b><u>LOOP ID - AK3</u></b>					<b><u>999999</u></b>	<b><u>C1/040L</u></b>	
14	040	AK3	Data Segment Note	O	1		C1/040	Used
N/A	* 050	AK4	Data Element Note	O	99			Not Used
15	060	AK5	Transaction Set Response Trailer	M	1			Must use
16	070	AK9	Functional Group Response Trailer	M	1			Must use
17	080	SE	Transaction Set Trailer	M	1			Must use

### Not Defined:

<u>Page</u>	<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>
18		GE	Functional Group Trailer	M	1			Must use
19		IEA	Interchange Control Trailer	M	1			Must use

### 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.

- 1/030L 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).

## Conventions used in this Implementation Guide::

1. The segment hierarchy lists all the segments of ASC X 12 standard. Segments which are not used by CargoSmart are indicated with \* sign. You may send these segments, but CS will not use them.
2. A detailed description of each segment is listed with the segment ID and name, level (header, detail, or summary), loop (if the segment is contained within a loop), loop repeat (for the first segment in the loop), requirement within the transaction set (as required by CS), maximum use, purpose (as defined by ASC X12), ASC X12 syntax notes, ASC X12 comments for segment usage, notes that explain CS convention for the segment within the transaction set and a valid sample of that segment.
3. The data element summary lists each data element, in order, for the segment. The data element summary includes the following types of information:
  - a. Req - This is the segment identifier with the data element sequence number within the segment.
  - b. Id - This is the number assigned to the data element by ASC X12. This number may be used for direct reference into the ASC X12 Data Element Dictionaries
  - c. Element Name - This is the name assigned to the data element by ASC X12, in the ASC X12 Data Element Dictionary.
  - d. Req - Element Usage based on ASC X12 standard and CS requirement. Below are the values used:
    - M Mandatory  
The data element must be used if the segment is used.
    - O Optional  
The data element may be used if the segment is used.
    - C Conditional  
The data element may be used - its presence is dependent on the presence or absence of other data elements in the same segment. The particular condition/relation will be stated in the CS Notes section for that segment.
  - e. Type - Element Type based on ASC X12 standard and CS requirement. Below are the values used:
    - ID Identifier  
Values for the identifier-type data elements are taken from a predefined list in the ASC X12 Data Element Dictionary.
    - AN String  
Values for the string-type data element are a sequence of any printable characters.
    - DT Date  
Values for the date-type data element are in the format YYMMDD.
    - TM Time  
Values for a time-type data element are in the format HHMM expressed in 24 hour clock.
    - Nx Numeric  
Values for a numeric data element are in an implied decimal format, where "x" indicates the number of places to the right of the decimal point. For negative values the leading minus sign (-) is used.

Absence of a minus sign indicates a positive number. The decimal point is not transmitted in the character stream.

e.g.,  
 N0 is a whole number (999.)  
 To send the number 999 the field contains "999"  
 N2 is 999.99  
 To send the number 999.99 the field contains "99999"

**R Decimal**

This is a numeric field in character format, with a decimal point included. It is treated as alpha/numeric. The decimal point is not sent for whole numbers. The decimal point is not included in the calculation of data element field length. For negative values the leading minus sign(-) is used. Absence of a minus sign indicates a positive number.

e.g.,  
 to send the number 0128.734 the field contains "128.734"  
 to send the number 0789.00 the field contains "789"

f. Minimum/Maximum - This is the minimum and maximum length the field can be.

g. Usage - Element Usage based on CS mapping. Below are values used:

**Must Use**

CS is mapping this data element to a mandatory field in internal files and CS DB. Unavailability of this element will lead to CS failure.

**Used**

CS may map this data element but unavailability will not cause failure.

**Not Used**

CS is not mapping this data element to internal files and data is not extracted/loaded to CS DB.

h. Code values - CS supported values for each element.

**Revision History:**

Ver. No.	Ver. Date	Revised By	Description of change(s)
2.0	17Aug'06	CargoSmart Integration Team	Revised the presentation
1.7	27Jul'05	CargoSmart Integration Team	Added '301' to AK101 description, added '301' to AK201
1.3.1	21Apr'03	CargoSmart Integration Team	Changed AK401's req. attribute from "M" to "C".
1.3	24Mar'03	CargoSmart ntegration Team	Version with refined contents, revised presentation and corrected typos from previous version.
1.0	16Aug'02	CargoSmart Integration Team	Initial Release

# ISA Interchange Control Header

Pos:	Max: 1
Not Defined - Mandatory	
Loop: N/A	Elements: 16

**User Option (Usage):** Must use

**Purpose:** 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>	M	ID	2/2	Must use

**Description:** Code to identify the type of information in the Authorization Information

**Code Name**

01 UCS Communications ID

ISA02	I02	<b>Authorization Information</b>	M	AN	10/10	Must use
-------	-----	----------------------------------	---	----	-------	----------

**Description:** 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)

ISA03	I03	<b>Security Information Qualifier</b>	M	ID	2/2	Must use
-------	-----	---------------------------------------	---	----	-----	----------

**Description:** Code to identify the type of information in the Security Information

**Code Name**

00 No Security Information Present (No Meaningful Information in I04)

ISA04	I04	<b>Security Information</b>	M	AN	10/10	Must use
-------	-----	-----------------------------	---	----	-------	----------

**Description:** 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)

ISA05	I05	<b>Interchange ID Qualifier</b>	M	ID	2/2	Must use
-------	-----	---------------------------------	---	----	-----	----------

**Description:** Qualifier to designate the system/method of code structure used to designate the sender or receiver ID element being qualified

**Code Name**

ZZ Mutually Defined

ISA06	I06	<b>Interchange Sender ID</b>	M	AN	15/15	Must use
-------	-----	------------------------------	---	----	-------	----------

**Description:** 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

**Code Name**

YOUR\_ID Your Interchange ID

ISA07	I05	<b>Interchange ID Qualifier</b>	M	ID	2/2	Must use
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**Description:** Qualifier to designate the system/method of code structure used to designate the sender or receiver ID element being qualified

**Code Name**

01 CargoSmart Qualifier

ISA08	I07	<b>Interchange Receiver ID</b>	M	AN	15/15	Must use
<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						
<b>Code Name</b>						
CARGOSM CargoSmart's Interchange ID ART						
ISA09	I08	<b>Interchange Date</b>	M	DT	6/6	Must use
<b>Description:</b> Date of the interchange						
ISA10	I09	<b>Interchange Time</b>	M	TM	4/4	Must use
<b>Description:</b> Time of the interchange						
ISA11	I10	<b>Interchange Control Standards Identifier</b>	M	ID	1/1	Must use
<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						
<b>Code Name</b>						
U U.S. EDI Community of ASC X12, TDCC, and UCS						
ISA12	I11	<b>Interchange Control Version Number</b>	M	ID	5/5	Must use
<b>Description:</b> Code specifying the version number of the interchange control segments						
<b>Code Name</b>						
00401 Draft Standards for Trial Use Approved for Publication by ASC X12 Procedures Review Board through October 1997						
ISA13	I12	<b>Interchange Control Number</b>	M	N0	9/9	Must use
<b>Description:</b> A control number assigned by the interchange sender						
ISA14	I13	<b>Acknowledgment Requested</b>	M	ID	1/1	Must use
<b>Description:</b> Code sent by the sender to request an interchange acknowledgment (TA1)						
<b>Code Name</b>						
0 No Acknowledgment Requested 1 Interchange Acknowledgment Requested						
ISA15	I14	<b>Usage Indicator</b>	M	ID	1/1	Must use
<b>Description:</b> Code to indicate whether data enclosed by this interchange envelope is test, production or information						
<b>Code Name</b>						
P Production Data T Test Data						
ISA16	I15	<b>Component Element Separator</b>	M		1/1	Must use
<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						

**CS Notes::**

ISA\*00\* \*00\* \*ZZ\*YOUR\_ID \*01\*CARGOSMART \*061017\*1038\*U\*00401\*000000001\*0\*P\*~

# GS Functional Group Header

Pos:	Max: 1
Not Defined - Mandatory	
Loop: N/A	Elements: 8

**User Option (Usage):** Must use

**Purpose:** 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>	M	ID	2/2	Must use
<b>Description:</b> Code identifying a group of application related transaction sets						
<b>Code Name</b>						
FA Functional Acknowledgment (997)						
GS02	142	<b>Application Sender's Code</b>	M	AN	2/15	Must use
<b>Description:</b> Code identifying party sending transmission; codes agreed to by trading partners						
<b>Code Name</b>						
YOUR_ID Your Functional ID						
GS03	124	<b>Application Receiver's Code</b>	M	AN	2/15	Must use
<b>Description:</b> Code identifying party receiving transmission; codes agreed to by trading partners						
<b>Code Name</b>						
CARGOSM CARGOSMART's Functional ID ART						
GS04	373	<b>Date</b>	M	DT	8/8	Must use
<b>Description:</b> Date expressed as CCYYMMDD						
GS05	337	<b>Time</b>	M	TM	4/8	Must use
<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)						
GS06	28	<b>Group Control Number</b>	M	N0	1/9	Must use
<b>Description:</b> Assigned number originated and maintained by the sender						
GS07	455	<b>Responsible Agency Code</b>	M	ID	1/2	Must use
<b>Description:</b> Code identifying the issuer of the standard; this code is used in conjunction with Data Element 480						
<b>Code Name</b>						
T Transportation Data Coordinating Committee (TDCC)						
X Accredited Standards Committee X12						
GS08	480	<b>Version / Release / Industry Identifier Code</b>	M	AN	1/12	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> 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				
		<b>Code</b>	<b>Name</b>			
		004010	Draft Standards Approved for Publication by ASC X12 Procedures Review Board through October 1997			

### Semantics:

1. GS04 is the group date.
2. GS05 is the group time.
3. 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:

1. 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.

### Sample Segment::

```
GS*QO*YOUR_ID*CARGOSMART*20061017*1038*1*X*004010~
```

# 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	<b>Transaction Set Identifier Code</b>	M	ID	3/3	Must use

**Description:** Code uniquely identifying a Transaction Set

### Code Name

997 Functional Acknowledgment

ST02	329	<b>Transaction Set Control Number</b>	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

## 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).

## Sample Segment::

ST\*997\*0041~

# 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

### Code Name

IO	Ocean Shipment Billing Details (310, 312, 980)
QO	Ocean Shipment Status Information (313, 315)
RO	Ocean Booking Information (300, 301,303)
SO	Ocean Shipment Information (304, 306, 309, 311, 317, 319, 321, 322, 323, 324, 325, 350, 352, 353, 354, 355, 356, 357, 358, 361)

AK102	28	Group Control Number	O	NO	1/9	Used
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**Description:** Assigned number originated and maintained by the sender

## 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.

## Sample Segment::

AK1\*SO\*94~

# 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

# 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	<b>Transaction Set Identifier Code</b>	M	ID	3/3	Used
<b>Description:</b> Code uniquely identifying a Transaction Set						
<b>Code Name</b>						
300 Reservation (Booking Request) (Ocean)						
301 Confirmation (Ocean)						
303 Booking Cancellation (Ocean)						
304 Shipping Instructions						
310 Freight Receipt and Invoice (Ocean)						
315 Status Details (Ocean)						
323 Vessel Schedule and Itinerary (Ocean)						
AK202	329	<b>Transaction Set Control Number</b>	M	AN	4/9	Must use
<b>Description:</b> Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set						

## 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.

## Sample Segment::

AK2\*304\*940001~

# 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

# 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	<b>Segment ID Code</b>	M	ID	2/3	Must use
		<b>Description:</b> Code defining the segment ID of the data segment in error (See Appendix A - Number 77)				
AK302	719	<b>Segment Position in Transaction Set</b>	M	N0	1/6	Must use
		<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				
AK303	447	<b>Loop Identifier Code</b>	O	AN	1/6	Used
		<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				
AK304	720	<b>Segment Syntax Error Code</b>	O	ID	1/3	Used
		<b>Description:</b> Code indicating error found based on the syntax editing of a segment				

### Code Name

- 1 Unrecognized segment ID
- 2 Unexpected segment
- 3 Mandatory 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

# AK5 Transaction Set Response Trailer

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

**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 Name

A	Accepted
E	Accepted But Errors Were Noted
R	Rejected
W	Rejected, Assurance Failed Validity Tests

## Sample Segment::

AK5\*A~

# AK9 Functional Group Response Trailer

Pos: 070	Max: 1
Heading - Mandatory	
Loop: N/A	Elements: 4

**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	<b>Functional Group Acknowledge Code</b>	M	ID	1/1	Must use

**Description:** Code indicating accept or reject condition based on the syntax editing of the functional group

### Code Name

A	Accepted
E	Accepted, But Errors Were Noted.
P	Partially Accepted, At Least One Transaction Set Was Rejected
R	Rejected
W	Rejected, Assurance Failed Validity Tests

AK902	97	<b>Number of Transaction Sets Included</b>	M	NO	1/6	Must use
-------	----	--	---	----	-----	----------

**Description:** Total number of transaction sets included in the functional group or interchange (transmission) group terminated by the trailer containing this data element

AK903	123	<b>Number of Received Transaction Sets</b>	M	NO	1/6	Must use
-------	-----	--	---	----	-----	----------

**Description:** Number of Transaction Sets received

AK904	2	<b>Number of Accepted Transaction Sets</b>	M	NO	1/6	Must use
-------	---	--	---	----	-----	----------

**Description:** Number of accepted Transaction Sets in a Functional Group

## Comments:

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

## Sample Segment::

```
AK9*A*1*1*1~
```

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

## Comments:

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

## Sample Segment::

SE\*5\*0041~

# GE Functional Group Trailer

Pos:	Max: 1
Not Defined - Mandatory	
Loop: N/A	Elements: 2

**User Option (Usage):** Must use

**Purpose:** 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>	M	N0	1/6	Must use
<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						
GE02	28	<b>Group Control Number</b>	M	N0	1/9	Must use
<b>Description:</b> Assigned number originated and maintained by the sender						

## Semantics:

1. 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:

1. 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.

## Sample Segment::

GE\*1\*67017~

# IEA Interchange Control Trailer

Pos:	Max: 1
Not Defined - Mandatory	
Loop: N/A	Elements: 2

**User Option (Usage):** Must use

**Purpose:** 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>	M	N0	1/5	Must use
<b>Description:</b> A count of the number of functional groups included in an interchange						
IEA02	I12	<b>Interchange Control Number</b>	M	N0	9/9	Must use
<b>Description:</b> A control number assigned by the interchange sender						

## Sample Segment::

*IEA\*1\*000069696~*