

## 997 Functional Acknowledgment

FUNCTIONAL GROUP ID - **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.

### Header

Page No.	Pos. No.	Seg. ID	Name	Req. Des.	Max. Use	Loop Repeat
3	010	ST	Transaction Set Header	M	1	
4	020	AK1	Functional Group Response Header	M	1	
5	030	AK2	Transaction Set Response Header	O	1	999999
6	040	AK3	Data Segment Note	O	1	999999
8	050	AK4	Data Element Note	O	99	
9	060	AK5	Transaction Set Response Trailer	M	1	
10	070	AK9	Functional Group Response Trailer	M	1	
12	080	SE	Transaction Set Trailer	M	1	



**ACCESSRAMP**<sup>TM</sup>

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*WODEX Conventions for EDI*

*997 Functional Acknowledgment*

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**Segment:** **ST** Transaction Set Header  
**Level:** Header  
**Loop:** \_\_\_\_  
**Usage:** Mandatory  
**Max Use:** 1  
**Purpose:** To indicate the start of a transaction set and to assign a control number  
**Set Notes:** 1 These acknowledgments shall not be acknowledged, thereby preventing an endless cycle of acknowledgments of acknowledgments.  
 2 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.  
 3 There is only one Functional Acknowledgment Transaction Set per acknowledged functional group.

**Data Element Summary**

REF. DES.	DATA ELEMENT	NAME	ATTRIBUTES
ST01	143	Transaction Set Identifier Code Code uniquely identifying a Transaction Set.	M ID 3/3
		997 X12.20 Functional Acknowledgment	
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	M AN 4/9

**Segment:** **AK1** Functional Group Response Header  
**Level:** Header  
**Loop:** \_\_\_\_  
**Usage:** Mandatory  
**Max Use:** 1  
**Purpose:** To start acknowledgment of a functional group.  
**Set Notes:** 1 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.

**Data Element Summary**

REF. DES.	DATA ELEMENT	NAME	ATTRIBUTES
AK101	479	Functional Identifier Code Code identifying a group of application related Transaction Sets.	M ID 2/2
		PT Product Transfer and Resale Report (867)	
AK102	28	Group Control Number Assigned number originated and maintained by the sender.	M NO 1/9

**Segment:** **AK2** Transaction Set Response Header  
**Level:** Header  
**Loop:** AK2 **Repeat:** 999999  
**Usage:** Optional  
**Max Use:** 1  
**Purpose:** To start acknowledgment of a single transaction set.  
**Set Notes:** 1 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.

**Data Element Summary**

REF. DES.	DATA ELEMENT	NAME	ATTRIBUTES
AK201	143	Transaction Set Identifier Code Code uniquely identifying a Transaction Set.	M ID 3/3
		867 X12.33 Product Transfer and Resale Report	
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	M AN 4/9

**Segment:** **AK3** Data Segment Note  
**Level:** Header  
**Loop:** AK2/AK3 **Repeat:** 999999  
**Usage:** Optional  
**Max Use:** 1  
**Purpose:** To report errors in a data segment and to identify the location of the data segment.  
**Set Notes:** 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 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).

**Data Element Summary**

REF. DES.	DATA ELEMENT	NAME	ATTRIBUTES
AK301	721	Segment ID Code Code defining the segment ID of the data segment in error. See Appendix A - Number 77.	M ID 2/3
AK302	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.	M N0 1/6
AK303	447	Loop Identifier Code Code identifying a loop within the transaction set which is bounded by the related LS and LE segments (corresponding LS and LE segments must have the same value for loop identifier). (Note: The loop ID number given on the transaction set diagram is recommended as the value for this data element in segments LS and LE.)	O AN 1/4
AK304	720	Segment Syntax Error Code Code indicating error found based on the syntax editing of a segment	O ID 1/3
		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	
AK305	720	Segment Syntax Error Code Code indicating error found based on the syntax editing of a segment	O ID 1/3
		See AK304 for code list.	

AK306	720	<b>Segment Syntax Error Code</b> Code indicating error found based on the syntax editing of a segment	O	ID	1/3
<b>See AK304 for code list.</b>					
AK307	720	<b>Segment Syntax Error Code</b> Code indicating error found based on the syntax editing of a segment	O	ID	1/3
<b>See AK304 for code list.</b>					
AK308	720	<b>Segment Syntax Error Code</b> Code indicating error found based on the syntax editing of a segment	O	ID	1/3
<b>See AK304 for code list.</b>					

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**Segment:** AK4 Data Element Note  
**Level:** Header  
**Loop:** AK2/AK3  
**Usage:** Optional  
**Max Use:** 99  
**Purpose:** To report errors in a data element and to identify the location of the data element.

**Data Element Summary**

REF. DES.	DATA ELEMENT	NAME	ATTRIBUTES
AK401	722	<b>Element Position in Segment</b> This is used to indicate the relative position of the data element in error in this data segment. The count starts with 1 for the data element immediately following the segment ID. This value is 0 for an error in the segment ID.	M NO 1/2
AK402	725	<b>Data Element Reference Number</b> Reference number used to locate the Data Element Dictionary.	O NO 1/4
AK403	723	<b>Data Element Syntax Error Code</b> Code indicating the error found after syntax edits of a data element.	M ID 1/3
<b>1 Mandatory data element missing</b>			
<b>10 Exclusion Condition Violated</b>			
<b>2 Conditional required data element missing.</b>			
<b>3 Too many data elements.</b>			
<b>4 Data element too short.</b>			
<b>5 Data element too long.</b>			
<b>6 Invalid character in data element.</b>			
<b>7 Invalid code value.</b>			
<b>8 Invalid Date</b>			
<b>9 Invalid Time</b>			
AK404	724	<b>Copy of Bad Data Element</b> This is a copy of the data element in error.	O AN 1/99

**Segment:** **AK5** Transaction Set Response Trailer  
**Level:** Header  
**Loop:** AK2  
**Usage:** Mandatory  
**Max Use:** 1  
**Purpose:** To acknowledge acceptance or rejection and to report errors in a transaction set.

**Data Element Summary**

REF. DES.	DATA ELEMENT	NAME	ATTRIBUTES
AK501	717	<b>Transaction Set Acknowledgment Code</b> Code indicating accept or reject condition based on the syntax editing of the transaction set.	M ID 1/1
A Accepted			
E Accepted But Errors Were Noted			
R Rejected			
AK502	718	<b>Transaction Set Syntax Error Code</b> Code indicating error found based on the syntax editing of a transaction set.	O ID 1/3
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			
AK503	718	<b>Transaction Set Syntax Error Code</b> Code indicating error found based on the syntax editing of a transaction set.	O ID 1/3
See AK502 for code list.			
AK504	718	<b>Transaction Set Syntax Error Code</b> Code indicating error found based on the syntax editing of a transaction set.	O ID 1/3
See AK502 for code list.			
AK505	718	<b>Transaction Set Syntax Error Code</b> Code indicating error found based on the syntax editing of a transaction set.	O ID 1/3
See AK502 for code list.			
AK506	718	<b>Transaction Set Syntax Error Code</b> Code indicating error found based on the syntax editing of a transaction set.	O ID 1/3
See AK502 for code list.			

**Segment:** **AK9** Functional Group Response Trailer  
**Level:** Header  
**Loop:** \_\_\_\_\_  
**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.  
**Comments:** A If AK901 is 'A' or 'E', then the transmitted functional group is accepted. If AK901 is 'R', then the transmitted group is rejected.

**Data Element Summary**

REF. DES.	DATA ELEMENT	NAME	ATTRIBUTES
AK901	715	<b>Functional Group Acknowledge Code</b> Code indicating accept or reject condition based on the syntax editing of the functional group.	M ID 1/1
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> Total number of transaction sets included in the functional group or interchange (transmission) group terminated by the trailer containing this data element.	M NO 1/6
AK903	123	<b>Number of Received Transaction Sets</b> Number of Transaction Sets received.	M NO 1/6
AK904	2	<b>Number of Accepted Transaction Sets</b> Number of accepted Transaction Sets in a Functional Group.	M NO 1/6
AK905	716	<b>Functional Group Syntax Error Code</b> Code indicating error found based on the syntax editing of the functional group header and/or trailer.	O ID 1/3
1 Functional Group Not Supported			
2 Functional Group Version Not Supported			
3 Functional Group Trailer Missing			
4 Group Control Number in the Functional Group Header and Trailer Do Not Agree			
5 Number of Included Transaction Sets Does Not Match Actual Count			

- AK906 716 Functional Group Syntax Error Code O ID 1/3**  
 Code indicating error found based on the syntax editing of the functional group header and/or trailer.  
See AK905 for code list.
- AK907 716 Functional Group Syntax Error Code O ID 1/3**  
 Code indicating error found based on the syntax editing of the functional group header and/or trailer.  
See AK905 for code list.
- AK908 716 Functional Group Syntax Error Code O ID 1/3**  
 Code indicating error found based on the syntax editing of the functional group header and/or trailer.  
See AK905 for code list.
- AK909 716 Functional Group Syntax Error Code O ID 1/3**  
 Code indicating error found based on the syntax editing of the functional group header and/or trailer.  
See AK905 for code list.

FINAL

**Segment:** SE Transaction Set Trailer  
**Level:** Header  
**Loop:** \_\_\_\_\_  
**Usage:** Mandatory  
**Max Use:** 1  
**Purpose:** To indicate the end of the transaction set and provide the count of the transmitted segments (including the beginning (ST) and ending (SE) segments).

**Data Element Summary**


REF. DES.	DATA ELEMENT	NAME	ATTRIBUTES
SE01	96	<b>Number of Included Segments</b>	M NO 1/10
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
Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set			


FINAL


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## Tips *These buttons help you find, view and use ACCESSRAMP™ text*


### Bookmarks/Thumbnails

 When bookmarks are onscreen, click on triangles to show or hide subtopics.

 When bookmarks are onscreen, a double-click on one of these brings its topic to the page window.

 Closes thumbnails or bookmarks and displays the page window only.

 Displays bookmarks and a page.

 Displays thumbnails and a page.

### Page Viewing



Magnifies, reduces the page: click the button, then click within the document. Or click and drag to enlarge an area.



When part of the page fills the window, the hand icon drags the page so that the rest can be shown.

### Text Copying



Selects text to copy to the clipboard.

Page 1 of 5, click this button for page 2 

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## Tips *Use these buttons to quickly move from page to page and to set the page size*

### Page Turning



Displays the first page.



Displays the previous page.



Displays the last page.



Displays the next page.



Displays the previous page viewed.



Returns from previous pages.

### Page Size Setting



Sets the page view to 100%.



Displays the full width of the page within the window.



Displays the entire page within the window.

 Click this button for page 1

Page 2 of 5

Click this button for page 3 

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## Tips *ACCESSRAMP™ bookmarks work like a table of contents*

### ***Collapsing and expanding topics***

Triangle icons in the bookmark area let you expand or collapse subtopics by clicking. A triangle that faces down indicates a topic is expanded. A triangle that faces to the right indicates a topic is collapsed.

To make scrolling the bookmark area easier, collapse all topics.

As you move the cursor past the border between the bookmark area and the page window a double arrow appears. Drag the double arrow to resize the bookmark area.

### ***Finding EDI segments in ACCESSRAMP***

Most ACCESSRAMP titles are based upon ASC X12 transaction sets or UN/EDIFACT messages. The hierarchy of these EDI standards creates a natural way to locate a message's interrelated parts.

- In each message listing, there is a column of page numbers to the left of the segment identifier. Click on a page number and the page window changes to the selected segment.
- You can also use the bookmarks for the same purpose.



Click this button for page 2

Page 3 of 5

Click this button for page 4



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## Tips *Tips for opening multiple documents and jumping to specific pages*

### ***Opening multiple documents***

You might want to have more than one ACCESSRAMP document open at one time. For example, a data element dictionary and one or more transaction sets can be open for instant cross access.

From within ACCESSRAMP, choose File|Open to open another document. Files that can be read by ACCESSRAMP have the file extension \*.PDF.

Use the Window menu to switch between the documents that are open.

### ***Going to a specific page***

In addition to using bookmarks and the message listing, there are two additional ways to get to a specific page.

- Click the page number box at the bottom of the window. Type the number of the page in the dialog box, then click OK.
- Click and hold the vertical scroll box; as you move the scroll box, a page number appears to the left of the scroll bar. Stop dragging the scroll box when it reaches the page you want.



Click this button for page 3

Page 4 of 5

Click this button for page 5



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## Tips *Magnification and manipulating the size of the onscreen image*

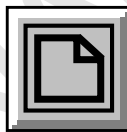
### **Changing page magnification**

The magnification box is at the bottom of the page window next to the page number box. Click and hold to select a preset percentage of magnification.

Selecting "Other..." displays a dialog box. By typing in a number (between 12 and 800) you can set any magnification from 12% to 800%.

You can preset ACCESSRAMP to open at any desired magnification by using the "Preferences..." dialog box under the "Edit" menu.

### **Fitting the page to your screen**



When the displayed image is too small or too large, click this button. The page will fill the window at the maximum magnification possible.



[Click this button for page 4](#)

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