# RHODE ISLAND Electronic Business Transactions Standard

For

Electronic Data Interchange

**TRANSACTION SET** 

997
Functional
Acknowledgment
Ver/Rel 004010

RI997 (004010UIG) Version: 99.1 8-1-1999

## 997 Functional Acknowledgment

# RHODE ISLAND SEGMENT DETAIL GUIDE

Functional Group ID=**FA** 

### Introduction:

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.

Must Use	Pos. <u>No.</u> 010	Seg. <u>ID</u> ST	Name Transaction Set Header	Req. Des. M	Max.Use	Loop <u>Repeat</u>	Notes and <u>Comments</u> n1
Must Use	020	AK1	Functional Group Response Header	M	1		n2
			LOOP ID - AK2	_	_	999999	
	030	AK2	Transaction Set Response Header	О	1		n3
			LOOP ID - AK3			999999	
	040	AK3	Data Segment Note	О	1		c1
	050	AK4	Data Element Note	O	99		
Must Use	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		

### **Transaction Set Notes**

- 1. 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.
- 2. 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.
- **3.** 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.

### **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 for transaction sets and functional groups. They do not report on the semantic meaning of the transaction sets (for example, on the ability of the receiver to comply with the request of the sender).

**ST** Transaction Set Header **Segment:** 

**Position:** 

Loop: Level:

Usage: Mandatory

Max Use:

**Purpose:** To indicate the start of a transaction set and to assign a control number

RI Use:

Required ST\*997\*000000001\ **Example:** 

### **Data Element Summary**

Must Use	Ref. <u>Des.</u> ST01	Data <u>Element</u> 143	Name Transaction Set Identifier Code Code uniquely identifying a Transaction Set 997 Functional Acknowledgment	Attı M	ributes ID 3/3
Must Use	ST02	329	Transaction Set Control Number Identifying control number that must be unique within the tranfunctional group assigned by the originator for a transaction s Unique number generated by Sender's Translator		AN 4/9 ion set

Segment: **AK1** Functional Group Response Header

**Position:** 020

Loop: Level:

Usage: Mandatory

Max Use:

**Purpose:** To start acknowledgment of a functional group

RI Use: Required

Example: **AK1\*GE\*000000040**\

**Data Element Summary** 

Ref. Data Des. **Element** Name Attributes **Must Use** AK101 479 **Functional Identifier Code** M ID 2/2 Code identifying a group of application related transaction sets General Request, Response or confirmation (814) IN Usage and Billing Invoice (810) RA Payment Order/Remittance Advice (820) **Group Control Number Must Use** AK102 28  $\mathbf{M}$ N0 1/9

Assigned number originated and maintained by the sender

A unique transaction identification number, assigned by the originator of

this transaction.

Segment: **AK2** Transaction Set Response Header

**Position:** 030

Loop: AK2 Optional

Level:

Usage: Optional Max Use: 1

**Purpose:** To start acknowledgment of a single transaction set

RI Use: Required

Example: **AK2\*814\*40001**\

**Data Element Summary** 

Ref. Data Des. **Element Name Attributes Must Use** AK201 143 **Transaction Set Identifier Code** M ID 3/3 Code uniquely identifying a Transaction Set 810 814 820 **Transaction Set Control Number Must Use AK202** 329 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

Segment: AK3 Data Segment Note

**Position:** 040

Loop: AK3 Optional

Level:

Usage: Optional Max Use: 1

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

RI Use: Optional Example: AK3\*\

### **Data Element Summary**

	Ref.	Data	·		
	Des.	<b>Element</b>	<u>Name</u>	Att	<u>ributes</u>
Must Use	AK301	721	Segment ID Code	$\mathbf{M}$	ID 2/3
			Code defining the segment ID of the data segment in error (S Number 77)	ee A <sub>l</sub>	ppendix A -
<b>Must Use</b>	<b>AK302</b>	719	Segment Position in Transaction Set	M	N0 1/6
			The numerical count position of this data segment from the start of the transaction set: the transaction set header is count position 1		
	AK303	447	Loop Identifier Code	O	AN 1/6
			The loop ID number given on the transaction set diagram is t data element in segments LS and LE	he va	lue for this
	AK304	720	Segment Syntax Error Code	O	ID 1/3
			Code indicating error found based on the syntax aditing of a	caam	ant

Code indicating error found based on the syntax editing of a segment

- 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

Segment: **AK4** Data Element Note

**Position:** 050

Loop: AK3 Optional

Level:

Usage: Optional Max Use: 99

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

the data element

RI Use: Optional Example: AK4\*\

### **Data Element Summary**

	Ref.	Data	Data Element Summary	
			Nama	A ttmibutos
Must Use	<u>Des.</u> AK401	Element C030	Name Projetion in Segment	<u>Attributes</u> M
Must Use	AN401	Cusu	Position in Segment	
			Code indicating the relative position of a simple data element	
			position of a composite data structure combined with the rela	-
			the component data element within the composite data struct count starts with 1 for the simple data element or composite	
			immediately following the segment ID	data structure
Must Use	C03001	722	Element Position in Segment	M N0 1/2
Wast ese	C05001	, 22	This is used to indicate the relative position of a simple data	
			relative position of a composite data structure with the relati	
			component within the composite data structure, in error; in the	
			the count starts with 1 for the simple data element or composition	site data structure
			immediately following the segment ID	
	C03002	1528	<b>Component Data Element Position in Composite</b>	O N0 1/2
			To identify the component data element position within the	composite that is in
			error	
	AK402	725	Data Element Reference Number	O N0 1/4
			Reference number used to locate the data element in the Dat	a Element
3.5	A <b>T</b> T 400	<b>-</b> 22	Dictionary	1.5 TD 4/2
Must Use	AK403	723	Data Element Syntax Error Code	M ID 1/3
			Code indicating the error found after syntax edits of a data e	iement
			1 Mandatory data element missing	
			2 Conditional required data element missing	
			3 Too many data elements	
			4 Data element too short	
			5 Data element too long	
			6 Invalid character in data element	
			7 Invalid code value	
			8 Invalid Date	
			9 Invalid Time	
	A T7 40 4	<b>50.4</b>	10 Exclusion Condition Violated	0 4374/00
	AK404	724	Copy of Bad Data Element	O AN 1/99

This is a copy of the data element in error

Segment: **AK5** Transaction Set Response Trailer

**Position:** 060

**Loop:** AK2 Optional

Level:

Usage: Mandatory

Max Use:

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

RI Use: Required AK5\*E\*5\

	- 0		Data Element Summary				
	Ref. <u>Des.</u>	Data <u>Element</u>	Name Attributes				
Must Use	AK501	717	Transaction Set Acknowledgment Code M 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				
	AK502	718	M, R, X Rejected Transaction Set Syntax Error Code O ID 1/3				
	AKSUZ	710	Code indicating error found based on the syntax editing of a transaction set				
			<ul> <li>1 Transaction Set Not Supported</li> <li>2 Transaction Set Trailer Missing</li> </ul>				
			3 Transaction Set Transi Wissing 3 Transaction Set Control Number in Header & Trailer So 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				
			19 S1E Security End Segment Missing for S1S Security Start				
			Segment 20 S1S Security Start Segment Missing for S1E Security End				
			Segment Segment Wissing for STE Security End				
			21 S3E Security End Segment Missing for S2S Security Start				
			Segment Segment Missing for 525 Security Start				
			22 S2S Security Start Segment Missing for S2E Security End				
			Segment				
			23 Transaction Set Control Number Not Unique within the				
			Functional Group				
	AK503	718	Transaction Set Syntax Error Code O ID 1/3				
			Code indicating error found based on the syntax editing of a transaction set				
	AK504	718	Transaction Set Syntax Error Code O ID 1/3				
			Code indicating error found based on the syntax editing of a transaction set				
	AK505	718	Transaction Set Syntax Error Code O ID 1/3				

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

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

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

Segment: **AK9** Functional Group Response Trailer

**Position:** 070

Loop: Level:

Usage: Mandatory

Max 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

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

accepted. If AK901 contains the value "R", then the transmitted group is rejected.

RI Use: Required

Example: **AK9\*E\*000017\*000017\*000017**\

### **Data Element Summary**

	Ref.	Data			
	Des.	<b>Element</b>	<u>Name</u>	Attı	ributes
Must Use	AK901	715	Functional Group Acknowledge Code	M	ID 1/1
			Code indicating accept or reject condition based on the synta	x edi	ting of the
			functional group		
			A Accepted		
			E Accepted		
			M Rejected		
			P Partially Accepted		
			R Rejected		
			X Rejected		
Must Use	AK902	97	Number of Transaction Sets Included	M	N0 1/6
			Total number of transaction sets included in the functional gr	oup c	or
			interchange (transmission) group terminated by the trailer con	ntaini	ng this data
			element		
Must Use	AK903	123	Number of Received Transaction Sets	$\mathbf{M}$	N0 1/6
			Number of Transaction Sets received		
Must Use	AK904	2	Number of Accepted Transaction Sets	$\mathbf{M}$	N0 1/6
			Number of accepted Transaction Sets in a Functional Group		
	AK905	716	Functional Group Syntax Error Code	O	ID 1/3
			Code indicating error found based on the syntax editing of the	e fun	ctional group

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

- 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
- 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 S1E Security End Segment Missing for S1S Security Start Segment
- 20 S1E Security End Segment Missing for S2S Security Start Segment

		21 S2E Security End Segment Missing for	r S2S Sec	curity Start Segment
		22 S2S Security Start Segment Missing fo	or S2E Sec	curity End Segment
AK906	716	Functional Group Syntax Error Code	O	ID 1/3
		Code indicating error found based on the syntax editing of	of the fund	ctional group
		header and/or trailer		
AK907	716	Functional Group Syntax Error Code	0	ID 1/3
		Code indicating error found based on the syntax editing	of the fund	ctional group
		header and/or trailer		
AK908	716	Functional Group Syntax Error Code	O	ID 1/3
		Code indicating error found based on the syntax editing of	of the fund	ctional group
		header and/or trailer		
AK909	716	Functional Group Syntax Error Code	O	ID 1/3
		Code indicating error found based on the syntax editing	of the fund	ctional group
		header and/or trailer		- •

Segment: **SE** Transaction Set Trailer

**Position:** 080

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)

RI Use: Required

Example: SE\*000000022\*00000001\

### **Data Element Summary**

Must Use	Ref. <u>Des.</u> SE01	Data <u>Element</u> 96	Name Number of Included Segments Total number of segments included in a transaction set include segments	Attributes M No 1/10 ding ST and SE
Must Use	SE02	329	Transaction Set Control Number  Identifying control number that must be unique within the trafunctional group assigned by the originator for a transaction Must match the same unique number assigned in the S data element ST02.	set