

# 997 Functional Acknowledgment - Canada

**VICS EDI** 

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# 997

# Functional Acknowledgment - Canada

### Functional Group=**FA**

**Purpose:** This X12 Transaction Set 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.

#### **Heading:**

<u>Pos</u>	<u>ld</u>	Segment Name	Req	Max Use	Repeat	<u>Notes</u>	<u>Usage</u>	<u>Page</u>
0100	ST	Transaction Set Header	M	1		N1/0100	Must use	3
 0200	AK1	Functional Group Response Header	М	1		N1/0200	Must use	4
LOOP	<b>ID - AK2</b>				<u>&gt;1</u>	N1/0300L		6
0300	AK2	Transaction Set Response Header	0	1		N1/0300	Used	7
LOOP	ID - AK3				<u>&gt;1</u>	C1/0400L		9
0400	AK3	Data Segment Note	0	1		C1/0400	Used	10
 0500	AK4	Data Element Note	0	99			Used	11
 0600	AK5	Transaction Set Response Trailer	М	1			Must use	12
 0700	AK9	Functional Group Response Trailer	М	1			Must use	14
0800	SE	Transaction Set Trailer	M	1			Must use	16

#### Notes:

1/0100 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.

There is only one Functional 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.

1/0200 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 Functional 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 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.

1/0300L 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.

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#### Comments:

1/0400L 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. 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).

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### **Transaction Set Header**

Pos: 0100 Max: 1 **Heading - Mandatory** oop: 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:**

Ref	<u>ld</u>	Element Na	<u>ıme</u>	Req	<u>Type</u>	Min/Max	<u>Usage</u>
ST01	143	Transaction	n Set Identifier Code	M	ID	3/3	Must use
		Description	: Code uniquely identifying a	a Transactio	n Set		
		CodeList S	ummary (Total Codes: 319,	Included: 1	)		
		<u>Code</u>	<u>Name</u>				
		997	Functional Acknowledgme	nt			
ST02	329	Transaction	n Set Control Number	M	AN	4/9	Must use
		•	: Identifying control number				saction set

functional group assigned by the originator for a transaction set

The number is sequentially assigned by the sender, starting with one within each functional group. For each functional group, the first transaction set control number will be 0001 and incremented by one for each additional transaction set within the group.

#### **Semantics:**

- 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.

# AK1 Functional Group Response Headin Header

Pos: 0200 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>ld</u>	Element Name	<u>Req</u>	<u>Type</u>	Min/Max	<u>Usage</u>
AK101	479	Functional Identifier Code	M	ID	2/2	Must use

**Description:** Code identifying a group of application related transaction sets

This is the functional group ID of the group that is being acknowledged, e.g., if a purchase order group is being acknowledged, the value would be PO. It is the value sent in GS01 for the original transmission.

CodeList Summary (Total Codes: 261, Included: 43)

CodeList Summary (Total Codes: 261, Included: 43)					
<u>Code</u>	<u>Name</u>				
AC	Associated Data (102)				
AG	Application Advice (824)				
AM	Item Information Request (893)				
AN	Return Merchandise Authorization and Notification (180)				
AR	Warehouse Stock Transfer Shipment Advice (943)				
AW	Warehouse Inventory Adjustment Advice (947)				
BL	Motor Carrier Bill of Lading (211)				
CA	Purchase Order Change Acknowledgment/Request - Seller Initiated (865)				
CD	Credit/Debit Adjustment (812)				
CT	Application Control Totals (831)				
DX	Direct Exchange Delivery and Return Information (894, 895)				
FA	Functional or Implementation Acknowledgment Transaction Sets (997, 999)				
GF	Response to a Load Tender (990)				
IB	Inventory Inquiry/Advice (846)				
IG	Direct Store Delivery Summary Information (882)				
IN	Invoice Information (810)				
IO	Ocean Shipment Billing Details (310, 312, 980)				
OR	Organizational Relationships (816)				
OW	Warehouse Shipping Order (940)				
PA	Price Authorization Acknowledgment/Status (845)				
PC	Purchase Order Change Request - Buyer Initiated (860)				
PD	Product Activity Data (852)				
PO	Purchase Order (850)				
PR	Purchase Order Acknowledgment (855)				
PS	Planning Schedule with Release Capability (830)				
PT	Product Transfer and Resale Report (867)				
QG	Product Information (878, 879, 888, 889, 896)				
QM	Transportation Carrier Shipment Status Message (214)				
RA	Payment Order/Remittance Advice (820)				
RC	Receiving Advice/Acceptance Certificate (861)				
RE	Warehouse Stock Receipt Advice (944)				
RF	Request for Routing Instructions (753)				
RG	Routing Instructions (754)				
RI	Routing and Carrier Instruction (853)				
RP	Commission Sales Report (818)				
RS	Order Status Information (869, 870)				

		SC SH SM SO SS SW TX	Price/Sales Catalog (832) Ship Notice/Manifest (856) Motor Carrier Load Tender (20) Ocean Shipment Information (326, 350, 352, 353, 354, 355, 354) Shipping Schedule (862) Warehouse Shipping Advice (97) Text Message (864)	, 304, 30 356, 35		319,	322, 323, 324, 325,
AK102	28	Group Contr	ol Number	М	N0	1/9	Must use

**Description:** Assigned number originated and maintained by the sender This is the control number assigned to the group being acknowledged, e.g., this is the control number assigned by the sender of the original transmission. It is the value sent in GS06 for the original transmission.

#### **Semantics:**

- 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.

# **Loop Transaction Set Response Header**

Pos: 0300 Repeat: >1 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>ld</u>	Segment Name	Req	Max Use	Repeat	<u>Usage</u>
0300	AK2	Transaction Set Response Header	0	1		Used
0400		Loop AK3	0		>1	Used
0600	AK5	Transaction Set Response Trailer	М	1		Must use

# **AK2** Transaction Set Response Header

Pos: 0300 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>ld</u>	Element Name	Req	<b>Type</b>	Min/Max	<u>Usage</u>
AK201	143	Transaction Set Identifier Code	M	ID	3/3	Must use

Description: Code uniquely identifying a Transaction Set

This is the transaction set ID of the transaction being acknowledged, e.g., if a purchase order is being acknowledged, the value would be 850. It is the value sent in ST01 for the original transmission.

CodeList Summary (Total Codes: 319, Included: 49)

Code	<u>Name</u>
102	Associated Data
180	Return Merchandise Authorization and Notification
204	Motor Carrier Load Tender
211	Motor Carrier Bill of Lading
214	Transportation Carrier Shipment Status Message
301	Confirmation (Ocean)
303	Booking Cancellation (Ocean)
304	Shipping Instructions
310	Freight Receipt and Invoice (Ocean)
312	Arrival Notice (Ocean)
313	Shipment Status Inquiry (Ocean)
315	Status Details (Ocean)
753	Request for Routing Instructions
754	Routing Instructions
810	Invoice
812	Credit/Debit Adjustment
816	Organizational Relationships
818	Commission Sales Report
820	Payment Order/Remittance Advice
824	Application Advice
830	Planning Schedule with Release Capability
831	Application Control Totals
832	Price/Sales Catalog
845	Price Authorization Acknowledgment/Status
846	Inventory Inquiry/Advice
850	Purchase Order
852	Product Activity Data
853	Routing and Carrier Instruction
855	Purchase Order Acknowledgment
856	Ship Notice/Manifest
860	Purchase Order Change Request - Buyer Initiated
861	Receiving Advice/Acceptance Certificate
862	Shipping Schedule
864	Text Message
867	Product Transfer and Resale Report
869	Order Status Inquiry
870	Order Status Report

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882	Direct Store Delivery Summary	Inform	ation		
	, ,	IIIIOIII	iation		
889	Promotion Announcement				
893	Item Information Request				
894	Delivery/Return Base Record				
895	Delivery/Return Acknowledgme	nt or A	djustmen	t	
940	Warehouse Shipping Order				
943	Warehouse Stock Transfer Ship	oment	Advice		
944	Warehouse Stock Transfer Rec	eipt A	dvice		
945	Warehouse Shipping Advice				
947	Warehouse Inventory Adjustme	nt Adv	rice		
990	Response to a Load Tender				
997	Functional Acknowledgment				
Transaction	n Set Control Number	M	AN	4/9	Must use

**Description:** Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set

This is the control number assigned to the transaction set being acknowledged, e.g., this is the control number assigned by the sender of the original transmission. It is the value sent in ST02 for the original transmission.

#### **Semantics:**

AK202

- 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.

### **Loop Data Segment Note**

Pos: 0400 Repeat: >1 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>ld</u>	Segment Name	<u>Req</u>	Max Use	Repeat	<u>Usage</u>
0400	AK3	Data Segment Note	0	1		Used
0500	AK4	Data Element Note	0	99		Used

### **AK3** Data Segment Note

Pos: 0400 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><b>Ref</b></u> AK301	<u>ld</u> 721	Element Name Segment ID Code	<u>Req</u> M	<u>Type</u> ID	Min/Max 2/3	<u>Usage</u> Must use
		<b>Description:</b> Code defining the segment ID Number 77)			•	See Appendix A -
		See External Code Source 77 in Section III	for refe	rence do	cument.	
AK302	719	Segment Position in Transaction Set	М	N0	1/10	Must use
		<b>Description:</b> The numerical count position transaction set: the transaction set header i		•		tart of the
AK303	447	Loop Identifier Code	0	AN	1/4	Used
		<b>Description:</b> The loop ID number given on data element in segments LS and LE	the tran	saction s	et diagram is tl	he value for this
AK304	720	Segment Syntax Error Code	0	ID	1/3	Used
		Description: Code indicating error found be	ased on	the synta	ax editing of a	segment
		CodeList Summary (Total Codes: 8, Included	ded: 3)			

### **AK4** Data Element Note

Pos: 0500 Max: 99 Heading - Optional Loop: AK3 Elements: 4

User Option (Usage): Used

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

#### **Element Summary:**

<u><b>Ref</b></u> AK401	<u>Id</u> C030	Element Name Position in Segment	Req M	<u>Type</u> Comp	Min/Max	<u>Usage</u> Must use		
		<b>Description:</b> Code indicating the relative podata structure in error within a segment, coufollowing the segment ID; additionally indicatin error, count beginning with 1 for the positis separator; additionally indicating the relative structure in error, count beginning with 1 for repetition separator	int beging the sion immediation immediation immediation immediation immediation in the second in the	nning with relative p ediately fon n of a con	of 1 for the position of a repollowing the proponent of a component of a componen	tion immediately peating structure eceding element omposite data		
AK401-01	722	Element Position in Segment	М	N0	1/2	Must use		
		<b>Description:</b> This is used to indicate the rel relative position of a composite data structur within the composite data structure, in error; the simple data element or composite data structure.	re with t ; in the o	he relativ data segm	e position of the nent the count	ne component starts with 1 for		
AK401-02	1528	Component Data Element Position in Composite	0	N0	1/2	Used		
		<b>Description:</b> To identify the component date error	a eleme	ent positio	n within the co	emposite that is in		
AK402	725	Data Element Reference Number	0	N0	1/4	Used		
		<b>Description:</b> Reference number used to loc Dictionary See External Code Source 77 in Section III				a Element		
AK403	723	Data Element Syntax Error Code	М	ID	1/3	Must use		
		<b>Description:</b> Code indicating the error found after syntax edits of a data element						
		Code List Summary (Total Codes: 12, Included: 7)CodeName1Mandatory data element missing2Conditional required data element missing.3Too many data elements.Description: More data elements existed than defined for the segment4Data element too short.5Data element too long.6Invalid character in data element.7Invalid code value.						
AK404	724	Copy of Bad Data Element	0	AN	1/99	Used		
		<b>Description:</b> This is a copy of the data elem	nent in e	error				

#### **Semantics:**

1. 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: 0600 Max: 1 Heading - Mandatory Loop: AK2 Elements: 6

User Option (Usage): Must use

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

The codes listed for AK502 apply to every occurrence of Data Element 718 in the AK5 segment.

Element Summar	v:
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<u><b>Ref</b></u> AK501	<u>ld</u> 717	Element Name Transaction Set Acknowledgment Code	Req M	Type ID	Min/Max 1/1	<u>Usage</u> Must use	
		<b>Description:</b> Code indicating accept or reject condition based on the syntax editing of the transaction set					
		CodeList Summary (Total Codes: 6, Included   Name A Accepted E Accepted But Errors Were N R Rejected					
AK502	718	Transaction Set Syntax Error Code	0	ID	1/3	Used	
		Description: Code indicating error found by	ased on	the synta	ax editing of a to	ransaction set	
		CodeList Summary (Total Codes: 23, Inc.CodeName1Transaction Set Not Support2Transaction Set Trailer Missi3Transaction Set Control Num4Number of Included Segment5One or More Segments in En	ed ng iber in He ts Does I				
AK503	718	Transaction Set Syntax Error Code	0	ID	1/3	Used	
		<b>Description:</b> Code indicating error found based on the syntax editing of a transaction set					
		CodeList Summary (Total Codes: 23, Inc.CodeName1Transaction Set Not Support2Transaction Set Trailer Missi3Transaction Set Control Num4Number of Included Segment5One or More Segments in En	ed ng iber in He ts Does I				
AK504	718	Transaction Set Syntax Error Code	0	ID	1/3	Used	
		Description: Code indicating error found based on the syntax editing of a transaction set					
		CodeList Summary (Total Codes: 23, Included: 5)       Code     Name       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					
AK505	718	Transaction Set Syntax Error Code	0	ID	1/3	Used	
		Description: Code indicating error found by	ased on	the synta	ax editing of a to	ransaction set	

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		CodeList Summary (Total Codes: 23, Included: 5)							
		<u>Code</u>	<u>Name</u>						
		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 E	rror					
AK506	718	Transaction	Set Syntax Error Code	0	ID	1/3	Used		
		Description	ption: Code indicating error found based on the syntax editing of a transaction set						
		CodeList Summary (Total Codes: 23, Included: 5)							
		Code	e Name						
		1	Transaction Set Not Supported Transaction Set Trailer Missing						
		2							
		3	Transaction Set Control Number in Header and Trailer Do Not Match						
		4	Number of Included Segments Does Not Match Actual Count						

One or More Segments in Error

# AK9 Functional Group Response Pos: 0700 Headin Loop: N/A

Pos: 0700 Max: 1 Heading - Mandatory Loop: N/A Elements: 9

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

The codes listed for AK905 apply to every occurrence of Data Element 716 in the AK9 segment.

#### **Element Summary:**

Ref	<u>ld</u>	Element Name	Req	Type	Min/Max	<u>Usage</u>		
AK901	715	Functional Group Acknowledge Code	M	ID	1/1	Must use		
		<b>Description:</b> Code indicating accept or reject condition based on the syntax editing of functional group						
		CodeList Summary (Total Codes: 7, Included Code Name  A Accepted  E Accepted, But Errors Were Note Partially Accepted, At Least Or Rejected	oted.	saction S	et Was Rejec	ted		
AK902	97	Number of Transaction Sets Included	М	N0	1/6	Must use		
		<b>Description:</b> Total number of transaction se interchange (transmission) group terminated						
AK903	123	Number of Received Transaction Sets	М	N0	1/6	Must use		
		Description: Number of Transaction Sets re	eceived					
AK904	2	Number of Accepted Transaction Sets	М	N0	1/6	Must use		
		Description: Number of accepted Transaction	ion Sets	in a Fund	ctional Group			
AK905	716	Functional Group Syntax Error Code	0	ID	1/3	Used		
		<b>Description:</b> Code indicating error found based on the syntax editing of the functional gro header and/or trailer						
		CodeList Summary (Total Codes: 25, Inclu Code Name  1 Functional Group Not Support 2 Functional Group Version Not 3 Functional Group Trailer Missi 4 Group Control Number in the I Agree 5 Number of Included Transaction	ed Suppor ing Function	nal Group				
AK906	716		0	ID	1/3	Used		
ARSOO	AK906 716 Functional Group Syntax Error Code O ID 1/3 Us  Description: Code indicating error found based on the syntax editing of the function header and/or trailer							
CodeList Summary (Total Codes: 25, Included: 5)  Code Name  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 Tr						Гrailer Do Not		

		5	Number of Included Transaction	on Sets	Does Not I	Match Actual C	ount	
AK907	716	Functional	Group Syntax Error Code	0	ID	1/3	Used	
		<b>Description</b> header and/	n: Code indicating error found ba	ased on	the syntax	editing of the fu	ınctional group	
		CodeList S Code 1 2 3 4	List Summary (Total Codes: 25, Included: 5)  Name Functional Group Not Supported Functional Group Version Not Supported Functional Group Trailer Missing Group Control Number in the Functional Group Header and Trailer Do Not Agree Number of Included Transaction Sets Does Not Match Actual Count					
AK908	716	Functional	Group Syntax Error Code	0	ID	1/3	Used	
		<b>Description:</b> Code indicating error found based on the syntax editing of the functional group header and/or trailer						
		CodeList S Code 1 2 3 4	ummary (Total Codes: 25, Inclu Name Functional Group Not Support Functional Group Version Not Functional Group Trailer Miss Group Control Number in the Agree Number of Included Transacti	ed Supporting Function	nal Group H			
AK909	716	Functional	Group Syntax Error Code	0	ID	1/3	Used	
		<b>Description</b> header and/	n: Code indicating error found ba	ased on	the syntax	editing of the fu	unctional group	
		CodeList S Code 1 2 3 4	ummary (Total Codes: 25, Inclu Name Functional Group Not Support Functional Group Version Not Functional Group Trailer Missi Group Control Number in the Agree Number of Included Transacti	ed Supporting Function	nal Group H			

#### **Comments:**

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

### SE Transaction Set Trailer

Pos: 0800 Max: 1 Heading - Mandatory Loop: N/A Elements: 2

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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:**

Ref	<u>ld</u>	Element Name	Req	<b>Type</b>	Min/Max	<u>Usage</u>	
SE01	96	Number of Included Segments	M	N0	1/10	Must use	
		<b>Description:</b> Total number of segments inc segments	luded in	a transa	ction set includ	ling ST and SE	
SE02	329	Transaction Set Control Number	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 <i>This must be the same number as is in the ST segment (ST02) for the transaction set.</i>					

#### **Comments:**

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