

# Benteler Electronic Data Interchange Specifications Transaction 997

#### BENTELER AUTOMOTIVE 997 Functional Acknowledgment

#### Functional Group ID= $\mathbf{FA}$

#### 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.

Pos. <u>No.</u>	Seg. <u>ID</u>	Name	Req. <u>Des.</u>	<u>Max. Use</u>	Loop <u>Repeat</u>	Notes and <u>Comments</u>
010	ST	Transaction Set Header	М	1		n1
020	AK1	Functional Group Response Header	М	1		n2
		LOOP ID - AK2			999999	
030	AK2	Transaction Set Response Header	М	1		n3
060	AK5	Transaction Set Response Trailer	М	1		
070	AK9	Functional Group Response Trailer	М	1		
080	SE	Transaction Set Trailer	М	1		

#### **Transaction Set Notes:**

 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.

Segment:	ISA Interchange Control Header
Position:	005
Loop:	
Level:	Heading
Usage:	Mandatory
Max Use:	1
Purpose:	To start and identify an interchange of zero or more functional groups and interchange- related control segments
Example:	ISA~00~ ~00~ ~01~112836044 ~ZZ~097362933 ~030131~1650~U~ 00400~00000011~0~P~>

Ref.	Data	Data Element Summary		
Des.	Element	Name	Attribut	tes
ISA01	101	Authorization Information Qualifier	М	ID 2/2
		Use "00"		
ISA02	102	Authorization Information	М	AN 10/10
		Use Ten Spaces		
ISA03	103	Security Information Qualifier	М	ID 2/2
		Use "00"		
ISA04	104	Security Information	М	AN 10/10
		Use Ten Spaces		
ISA05	105	Interchange ID Qualifier	М	ID 2/2
		Use "01" or other applicable codes		
ISA06	106	Interchange Sender ID	М	AN 15/15
		DUNS Number. Left Justify, Space Fill		
ISA07	105	Interchange ID Qualifier	М	ID 2/2
		Use "01" or other applicable codes		
ISA08	107	Interchange Receiver ID	М	AN 15/15
	100	DUNS Number. Left Justify, Space Fill		
ISA09	108	Interchange Date	М	DT 6/6
10.440	100	Date of Creation		<b>T1</b> <i>1 1 1</i>
ISA10	109	Interchange Time	М	TM 4/4
	110	Time Of Creation		ID 4/4
ISA11	l10	Interchange Control Standards Identifier	М	ID 1/1
ISA12	l11	Use "U" for U.S. Interchange Control Version Number	м	ID 5/5
ISA12		Use "00401"	IVI	ID 5/5
ISA13	l12	Interchange Control Number	м	N0 9/9
IGAIS	112	A control number assigned by the interchange sender	141	NO 3/3
ISA14	113	Acknowledgment Requested	м	ID 1/1
		Use "0" for no Ack. Reg., Use "1" for Ack. Reg		
ISA15	114	Usage Indicator	М	ID 1/1
		Use "T" For Test or "P" For Production		
		Refer to 004010 Data Element Dictionary for acceptable code	values.	
ISA16	l15	Component Element Separator	M	AN 1/1
		Type is not applicable; the component element separator is a	delimiter	and not a data
		element; this field provides the delimiter used to separate con	nponent d	lata elements within
		a composite data structure; this value must be different than t	he data e	lement separator
		and the segment terminator		

**GS** Functional Group Header Segment: Position: 007 Loop: Level: Heading Usage: Mandatory Max Use: 1 Purpose: To indicate the beginning of a functional group and to provide control information Syntax Notes: Semantic Notes: 1 GS04 is the group date GS06 in this header must be identical to the same data element in the associated 3 functional group trailer

Example: GS~FA~112836044~097362933~20030131~1650~11~X~004010

		Data Element Gammary		
Ref.	Data			
Des.	<u>Element</u>	<u>Name</u>	<u>Attribu</u>	utes
GS01	479	Functional Identifier Code	М	ID 2/2
		Use "PS" for Planning Schedule		
GS02	142	Application Sender's Code	М	AN 2/15
		Use Duns Number		
GS03	124	Application Receiver's Code	М	AN 2/15
		Use Duns Number		
GS04	373	Date	М	DT 8/8
		Creation Date		
GS05	337	Time	М	TM 4/8
		Creation Time		
GS06	28	Group Control Number	М	N0 1/9
		Start with 1 and increment by 1 for each subsequent GS Seg	ment	
GS07	455	Responsible Agency Code	М	ID 1/2
		Use "X"		
GS08	480	Version / Release / Industry Identifier Code	М	AN 6/6
		Use "004010"		

	Segment: Position: Loop: Level:	ST Transaction Set Header		
	Usage: Max Use:	Mandatory		
	Purpose:	To indicate the start of a transaction set and to assign a contr	ol numbe	r
	Comments:	5		
	Example:	ST~997~0001		
		Data Element Summary		
Ref.	Data			
Des.	<u>Element</u>	Name	Attribu	tes
ST01	143	Transaction Set Identifier Code	М	ID 3/3
		Code uniquely identifying a Transaction Set Refer to 004010 Data Element Dictionary for acceptable code		
ST02	329	Transaction Set Control Number Identifying control number that must be unique within the tran assigned by the originator for a transaction set	M Isaction se	AN 4/9 et functional group

Segment: Position: Loop: Level:	<b>AK1</b> Functional Group Response Header
Usage:	Mandatory
Max Use:	1
Purpose:	To start acknowledgment of a functional group
Syntax Notes:	
Semantic Notes:	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.
Example:	AK1~SH~22

Ref.	Data			
Des.	Element	Name	Attrib	utes
AK101	479	Functional Identifier Code	М	ID 2/2
		Code identifying a group of application related transaction sets	5	
AK102	28	Group Control Number	М	N0 1/9
		Assigned number originated and maintained by the sender		

Segment:	AK2 Transaction Set Response Header
Position:	030
Loop:	AK2 Mandatory
Level:	
Usage:	Mandatory
Max Use:	1
Purpose:	To start acknowledgment of a single Transaction Set
Syntax Notes:	
Semantic Notes:	<ol> <li>AK201 is the transaction set ID found in the ST segment (ST01) in the transaction set being acknowledged.</li> </ol>
	2 AK202 is the transaction set control number found in the ST segment in the transaction set being acknowledged.
Example:	AK2~856~000123557

Ref. <u>Des.</u>	Data Element	Name	Attrib	utes
AK201	143	Functional Identifier Code	М	ID 3/3
AK202	329	Code uniquely identifying a Transaction Set Transaction Set Control Number	м	AN 4/9
AN202	329	Identifying control number that must be unique within the tran assigned by the originator for a transaction set		

 Segment:
 AK5 Transaction Set Response Trailer

 Position:
 060

 Loop:
 AK2 Mandatory

 Level:
 Mandatory

 Usage:
 Mandatory

 Max Use:
 1

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

 Syntax Notes:
 AK5~A

Ref.	Data	,		
Des.	Element	Name	Attrib	utes
AK501	717	Transaction Set Acknowledgment Code	M	ID 1/4
		Code indicating accept or reject condition based on the s transaction set	yntax editing	g of the
AK502	718	Transaction Set Syntax Error Code	0	ID 1/3
		Code indicating error found based on the syntax editing of	of a transacti	ion set

Segment: A Position: 070 Loop: Level: Usage: Man Max Use: 1 Purpose: To a incluin th Syntax Notes:

AK9~A~1~1~1

**AK9** Functional Group Response Trailer

e: Mandatory
e: 1
e: 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

Syntax Notes: Semantic Notes: Example:

Ref.	Data	,		
Des.	Element	Name	Attrib	utes
AK901	715	Functional Group Acknowledgment Code	Μ	ID 1/1
		Code indicating accept or rejecet condition based on the		
		syntax editing of the functional group		
AK902	97	Number of Transaction Sets Included	М	N0 1/6
		Total number of transaction sets included in the functional gr	oup or ir	nterchange
		(transmission" group terminated by the trailer containing this	data ele	ment
AK903	123	Number of Received Transaction Sets	М	N0 1/6
		Number of Transaction Sets received		
AK904	2	Number of Accepted Transaction Sets	М	N0 1/6
		Number of accepted Transaction Sets in a Functional Group		
AK905	716	Functional Group Syntax Error Code	0	ID 1/3
		Code indicating error found based on the syntax editing of th and/or trailer	e functio	onal group header

Ref. <u>Des.</u> SE01

**SE02** 

### **BENTELER ♥**

Segment: Position: Loop: Level: Usage:	SE Transaction Set Trailer 080 Mandatory
Max Use:	
Purpose:	segments (including the beginning (ST) and ending (SE) segments)
Comments:	1 SE is the last segment of each transaction set.
Example:	SE~6~0001
Ε.	Data Element Summary
Data	Manaa Attuituutaa
Element	Number of Included Segments M N0 1/10
96	
329	Total number of segments included in a transaction set including ST and SE segmentsTransaction Set Control NumberMAN 4/9Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set

GE02

28

Group Control Number

## **BENTELER ♥**

М

N0 1/9

Segment:		GE Functional Group Trailer				
Position:		030				
Loop:						
Level:		Summary				
Usage:		Optional				
Max Use:		1				
Purpose:		To indicate the end of a functional group and to provide control information				
Syntax Notes:						
Semantic Notes:		<b>1</b> The data interchange control number GE02 in this trailer must be identical to the same data element in the associated functional group header, GS06.				
Example:		GE~1~11				
Data Element Summary						
Ref.	Data					
<u>Des.</u>	<u>Element</u>	Name	<u>Attributes</u>			
GE01	97	Number of Transaction Sets Included	M N0 1/6			
Total number of transaction sets included in the functional group or interchan						

(transmission) group terminated by the trailer containing this data element

Assigned number originated and maintained by the sender

IEA02

l12

## **BENTELER ♥**

NO 9/9

	Segment:	IEA Interchange Control Trailer					
	Position:	040					
	Loop:						
	Level:	Summary					
	Usage:	Optional					
	Max Use:	1					
	Purpose:	To define the end of an interchange of zero or more functional groups and interchange- related control segments					
Syntax Notes: Semantic Notes:		-					
Example:		IEA~1~00000011					
Data Element Summary							
Ref.	Data						
Des.	<u>Element</u>	Name	<u>Attributes</u>				
IEA01	l16	Number of Included Functional Groups	M	N0 1/5			

A count of the number of functional groups included in an interchange A control number assigned by the interchange sender M

#### Sample 830 EDI

#### **Benteler to Vendor**

ISA~00~ ~00~ ~01~112836044 ~ZZ~097362933 ~030131~1650~U~00400~000000011~0~P~> GS~FA~112836044~097362933~20030131~1650~11~X~004010 ST~997~0001 AK1~SH~22 AK2~856~000123557 AK5~A AK9~A~1~1~1 SE~6~0001 GE~1~11 IEA~1~000000011

Vendor to Benteler ISA\*00\* \*00\* \*01\*938307675 \*01\*112836044 \*030131\*1319\*U\*00400\*000596015\*0\*P\*> GS\*FA\*938307675\*112836044\*20030131\*1319\*596015\*X\*004010 ST\*997\*000596015 AK1\*SS\*522 AK2\*862\*0001 AK5\*A AK9\*A\*1\*11\*1 SE\*6\*000596015 GE\*1\*596015 IEA\*1\*000596015