New York Implementation Standard

For

Standard Electronic Transactions

TRANSACTION SET

997

Functional Acknowledgement

Ver/Rel 004010

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		Summary of Changes
July 20, 2001 **Version 1.0**		**Initial Release**
October 25, 2002		**Version 2.0 Released**
		Front Matter Notes regarding "Cross Referencing Request and Response transactions" were corrected to indicate that the translation process links the GS and ST control numbers rather than the ISA and GS control numbers.
		Functional Group Response Header segment (AK1) was revised to recognize the following application related transaction sets: D5 – Contract Payment Management Report (568) IN – Invoice Information (810, 819) RA – Payment Order/Remittance Advice (820) SU – Account Assignment/Inquiry and Service Status (248)
		Transaction Set Response Header segment (AK2) was revised to recognize the following transaction sets: 248 Account Assignment/Inquiry and Service/Status 568 Contract Payment Management Report 810 Invoice 820 Payment Order/Remittance Advice
		Examples were added to the segment notes for various segments.
July 24, 2015		**Version 2.1 Released**
		• Miscellaneous Errata Corrected. • Transaction Set Response Header segment (AK2) was revised to recognize the 503 Pricing History transaction set.
January 29, 2016		**Version 2.2 Released**
		• Functional Group Response Header segment (AK1) was revised to recognize the 503 Pricing History transaction set.

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		Notes pertaining to the use of this document
Purpose		• A 997 FA reports the results of syntactical analysis of transaction sets. • A 997 FA may report the acceptance or rejection of the entire functional group, or may report acceptance or rejection of particular transaction sets within the functional group. In New York the 997 FA is required as a response to every transaction received (other than a 997). However, the entire functional group may be rejected if there are structural problems such as: • The functional group trailer record is missing • The number of included transaction sets does not match the actual count. • A 997 FA essentially informs the sender of an EDI transaction that "I have received your message". The 997 also indicates that (1) the message that was received had no syntactical errors and was accepted, or (2) the message that was received had syntactical errors and was accepted with errors noted, or (3) the message that was received had syntactical errors and was rejected.
Origination		• An X12 compliant translator will generate the 997 FA utilizing the coding structure depicted in the AK segments displayed in this guide. Parties will not need to develop application or translator logic to support the 997 FA.
Capabilities and Limitations		• A 997 FA does not address the semantic meaning of the information in the transaction set. Therefore, no application error conditions will ever be communicated in the 997. • The 997 is designed to report the specific data segment and data element that carries the error. • These standards are based on the ASC X12 Ver/Rel 004010 standard. • Transactions sets recognized in various Commission orders in Case 98-M-0667, along with their functional group identifiers, have been included in this Implementation Guide.
Processing		• Each 997 FA will be returned within one business day of receipt of the initiating transaction.
Cross referencing Request and Response transactions		• The translation process links the GS and ST control numbers to each transaction set. The functional group (GS) identifier and the transaction set (ST) identifier of the received transaction are returned in the body of the 997 transaction.
Definitions		• Syntax - the organization of the data. • Semantics – the meaning of the data.
Transaction Set Maintenance Note		• The 997 is a translation level transaction and maintenance is required only if transactions sets and functional groups are added or removed from the list of required transactions.

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997 Functional Acknowledgment

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.

Page No.	Pos. No.	Seg. ID	Name	Req. Des.	Max.Use	Loop Repeat	Notes and Comments
2	010	ST	Transaction Set Header	M	1		n1
3	020	AK1	Functional Group Response Header	M	1		n2
			LOOP ID - AK2			999999	
4	030	AK2	Transaction Set Response Header	O	1		n3
			LOOP ID - AK3			999999	
5	040	AK3	Data Segment Note	O	1		c1
6	050	AK4	Data Element Note	O	99		
7	060	AK5	Transaction Set Response Trailer	M	1		
12	070	AK9	Functional Group Response Trailer	M	1		
18	080	SE	Transaction Set Trailer	M	1		

Transaction Set Notes

1. These transactions should NOT be acknowledged to avoid an endless cycle of acknowledgments of acknowledgments. A Functional Acknowledgment should NOT 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).

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Segment: **ST** **Transaction Set Header**
Position: 010
Loop:
Level:
Usage: Mandatory
Max Use: 1
Purpose: To indicate the start of a transaction set and to assign a control number
Syntax Notes:
Semantic Notes: **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).
Comments:
Notes: ST*997*000000001

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
Mand	**ST01**	**143**	**Transaction Set Identifier Code** 997 Functional Acknowledgment	**M ID 3/3**
Mand	**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**

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Segment: **AK1** **Functional Group Response Header**
Position: 020
Loop:
Level:
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.
Comments:
Notes: AK1*IN*1

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
Mand	**AK101**	**479**	**Functional Identifier Code**	**M**	**ID 2/2**
			Code identifying a group of application related transaction sets		
			AG Application Advice (824)		
			D5 Contract Payment Management Report (568)		
			GE General Request, Response or Confirmation (814)		
			IN Invoice Information (810,819)		
			PH Pricing History (503)		
			PT Product Transfer and Resale Report (867)		
			RA Payment Order/Remittance Advice (820)		
			SU Account Assignment/Inquiry and Service/Status (248)		
Mand	**AK102**	**28**	**Group Control Number**	**M**	**N0 1/9**
			Assigned number originated and maintained by the sender		

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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
Syntax Notes:
Semantic Notes:
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.
Comments:
Notes: AK2*810*000000001

Data Element Summary

	Ref. Des.	Data Element	Name		Attributes
Mand	**AK201**	**143**	**Transaction Set Identifier Code**		**M ID 3/3**
			248	Account Assignment/Inquiry and Service/Status	
			503	Pricing History	
			568	Contract Payment Management Report	
			810	Invoice	
			814	General Request, Response or Confirmation	
			820	Payment Order/Remittance Advice	
			824	Application Advice	
			867	Product Transfer and Resale Report	
Mand	**AK202**	**329**	**Transaction Set Control Number**		**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		

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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
Syntax Notes:
Semantic Notes:
Comments:
Notes: AK3*BIG*2**8

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
Mand	**AK301**	**721**	**Segment ID Code** Code defining the segment ID of the data segment in error	**M**	**ID 2/3**
Mand	**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**
Optional	**AK303**	**447**	**Loop Identifier Code** The loop ID number given on the transaction set diagram is the value for this data element in segments LS and LE	**O**	**AN 1/6**
Optional	**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
8	Segment Has Data Element Errors

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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
Syntax Notes:
Semantic Notes: **1** In no case shall a value be used for AK404 that would generate a syntax error, e.g., an invalid character.
Comments:
Notes: AK4*2*76*1

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
Mand	**AK401**	**C030**	**Position in Segment** Code indicating the relative position of a simple data element, or the relative position of a composite data structure combined with the relative position of the component data element within the composite data structure, in error; the count starts with 1 for the simple data element or composite data structure immediately following the segment ID	**M**	
Mand	**C03001**	**722**	**Element Position in Segment** This is used to indicate the relative position of a simple data element, or the relative position of a composite data structure with the relative position of the component within the composite data structure, in error; in the data segment the count starts with 1 for the simple data element or composite data structure immediately following the segment ID	**M**	**N0 1/2**
Optional	**C03002**	**1528**	**Component Data Element Position in Composite** To identify the component data element position within the composite that is in error	**O**	**N0 1/2**
Optional	**AK402**	**725**	**Data Element Reference Number** Reference number used to locate the data element in the Data Element Dictionary	**O**	**N0 1/4**
Mand	**AK403**	**723**	**Data Element Syntax Error Code** Code indicating the error found after syntax edits of a data element 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 10 Exclusion Condition Violated	**M**	**ID 1/3**
Optional	**AK404**	**724**	**Copy of Bad Data Element**	**O**	**AN 1/99**

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Segment: **AK5** **Transaction Set Response Trailer**
Position: 060
Loop: AK2 Optional
Level:
Usage: Mandatory
Max Use: 1
Purpose: To acknowledge acceptance or rejection and report errors in a transaction set
Syntax Notes:
Semantic Notes:
Comments:
Notes: AK5*R*5

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes
Mand	**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	
			M Rejected, Message Authentication Code (MAC) Failed	
			R Rejected	
			W Rejected, Assurance Failed Validity Tests	
			X Rejected, Content After Decryption Could Not Be Analyzed	
Optional	**AK502**	**718**	**Transaction Set Syntax Error Code**	**O ID 1/3**
			Code indicating error found based on the syntax editing of a transaction set	
			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	
			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	
			21 S2E Security End Segment Missing for S2S Security Start Segment	
			22 S2S Security Start Segment Missing for S2E Security End Segment	
			23 Transaction Set Control Number Not Unique within the	

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			Functional Group		
			24 S3E Security End Segment Missing for S3S Security Start Segment		
			25 S3S Security Start Segment Missing for S3E Security End Segment		
			26 S4E Security End Segment Missing for S4S Security Start Segment		
			27 S4S Security Start Segment Missing for S4E Security End Segment		
Optional	**AK503**	**718**	**Transaction Set Syntax Error Code**	**O**	**ID 1/3**
			Code indicating error found based on the syntax editing of a transaction set		
			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		
			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		
			21 S2E Security End Segment Missing for S2S Security Start Segment		
			22 S2S Security Start Segment Missing for S2E Security End Segment		
			23 Transaction Set Control Number Not Unique within the Functional Group		
			24 S3E Security End Segment Missing for S3S Security Start Segment		
			25 S3S Security Start Segment Missing for S3E Security End Segment		
			26 S4E Security End Segment Missing for S4S Security Start Segment		
			27 S4S Security Start Segment Missing for S4E Security End Segment		

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Optional	**AK504**	**718**	**Transaction Set Syntax Error Code**	**O**	**ID 1/3**

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

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
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
21	S2E Security End Segment Missing for S2S Security Start Segment
22	S2S Security Start Segment Missing for S2E Security End Segment
23	Transaction Set Control Number Not Unique within the Functional Group
24	S3E Security End Segment Missing for S3S Security Start Segment
25	S3S Security Start Segment Missing for S3E Security End Segment
26	S4E Security End Segment Missing for S4S Security Start Segment
27	S4S Security Start Segment Missing for S4E Security End Segment

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Optional	**AK505**	**718**	**Transaction Set Syntax Error Code**	**O**	**ID 1/3**

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

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
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
21	S2E Security End Segment Missing for S2S Security Start Segment
22	S2S Security Start Segment Missing for S2E Security End Segment
23	Transaction Set Control Number Not Unique within the Functional Group
24	S3E Security End Segment Missing for S3S Security Start Segment
25	S3S Security Start Segment Missing for S3E Security End Segment
26	S4E Security End Segment Missing for S4S Security Start Segment
27	S4S Security Start Segment Missing for S4E Security End Segment

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

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

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
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
21	S2E Security End Segment Missing for S2S Security Start Segment
22	S2S Security Start Segment Missing for S2E Security End Segment
23	Transaction Set Control Number Not Unique within the Functional Group
24	S3E Security End Segment Missing for S3S Security Start Segment
25	S3S Security Start Segment Missing for S3E Security End Segment
26	S4E Security End Segment Missing for S4S Security Start Segment
27	S4S Security Start Segment Missing for S4E Security End Segment

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Segment: **AK9** **Functional Group Response Trailer**
Position: 070
Loop:
Level:
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
Syntax Notes:
Semantic Notes:
Comments: **1** If AK901 contains the value "A" or "E", then the transmitted functional group is accepted.
Notes: AK9*R*233*233*232

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
Mand	**AK901**	**715**	**Functional Group Acknowledge Code** Code indicating accept or reject condition based on the syntax editing of the functional group A Accepted E Accepted, But Errors Were Noted. M Rejected, Message Authentication Code (MAC) Failed P Partially Accepted, At Least One Transaction Set Was Rejected R Rejected W Rejected, Assurance Failed Validity Tests X Rejected, Content After Decryption Could Not Be Analyzed	**M**	**ID 1/1**
Mand	**AK902**	**97**	**Number of Transaction Sets Included** Total number of transaction sets included in the functional group or interchange (transmission) group terminated by the trailer containing this data element	**M**	**N0 1/6**
Mand	**AK903**	**123**	**Number of Received Transaction Sets** Number of Transaction Sets received	**M**	**N0 1/6**
Mand	**AK904**	**2**	**Number of Accepted Transaction Sets** Number of accepted Transaction Sets in a Functional Group	**M**	**N0 1/6**

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Optional	**AK905**	**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

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
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	S1S Security Start Segment Missing for S1E End Segment
21	S2E Security End Segment Missing for S2S Security Start Segment
22	S2S Security Start Segment Missing for S2E Security End Segment
23	S3E Security End Segment Missing for S3S Security Start Segment
24	S3S Security Start Segment Missing for S3E End Segment
25	S4E Security End Segment Missing for S4S Security Start Segment
26	S4S Security Start Segment Missing for S4E Security End Segment

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Optional	**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

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
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	S1S Security Start Segment Missing for S1E End Segment
21	S2E Security End Segment Missing for S2S Security Start Segment
22	S2S Security Start Segment Missing for S2E Security End Segment
23	S3E Security End Segment Missing for S3S Security Start Segment
24	S3S Security Start Segment Missing for S3E End Segment
25	S4E Security End Segment Missing for S4S Security Start Segment
26	S4S Security Start Segment Missing for S4E Security End Segment

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Optional	**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

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
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	S1S Security Start Segment Missing for S1E End Segment
21	S2E Security End Segment Missing for S2S Security Start Segment
22	S2S Security Start Segment Missing for S2E Security End Segment
23	S3E Security End Segment Missing for S3S Security Start Segment
24	S3S Security Start Segment Missing for S3E End Segment
25	S4E Security End Segment Missing for S4S Security Start Segment
26	S4S Security Start Segment Missing for S4E Security End Segment

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Optional	**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

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
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	S1S Security Start Segment Missing for S1E End Segment
21	S2E Security End Segment Missing for S2S Security Start Segment
22	S2S Security Start Segment Missing for S2E Security End Segment
23	S3E Security End Segment Missing for S3S Security Start Segment
24	S3S Security Start Segment Missing for S3E End Segment
25	S4E Security End Segment Missing for S4S Security Start Segment
26	S4S Security Start Segment Missing for S4E Security End Segment

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Optional	**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

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
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	S1S Security Start Segment Missing for S1E End Segment
21	S2E Security End Segment Missing for S2S Security Start Segment
22	S2S Security Start Segment Missing for S2E Security End Segment
23	S3E Security End Segment Missing for S3S Security Start Segment
24	S3S Security Start Segment Missing for S3E End Segment
25	S4E Security End Segment Missing for S4S Security Start Segment
26	S4S Security Start Segment Missing for S4E Security End Segment

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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)
Syntax Notes:
Semantic Notes:
Comments: **1** SE is the last segment of each transaction set.
Notes: SE*7*000000001

Data Element Summary

	Ref. Des.	Data Element	Name	Attributes	
Mand	**SE01**	**96**	**Number of Included Segments** Total number of segments included in a transaction set including ST and SE segments	**M**	**N0 1/10**
Mand	**SE02**	**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**

FILED