

# New York Implementation Standard

For  
**Sandard Electronic  
Transactions**

TRANSACTION SET

# 997

## Functional Acknowledgement

Ver/Rel 004010

	<b>Summary of Changes</b>
<p>July 20, 2001 Version 1.0</p>	<p>Initial Release</p>
<p>September 25, 2002 Version 2.0</p>	<p>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.</p>
	<p>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)</p>
	<p>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</p>
	<p>Examples were added to the segment notes for various segments.</p>

	<b>Notes pertaining to the use of this document</b>
Purpose	<ul style="list-style-type: none"> <li>• A 997 FA reports the results of syntactical analysis of transaction sets.</li> <li>• 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:               <ul style="list-style-type: none"> <li>• The functional group trailer record is missing</li> <li>• The number of included transaction sets does not match the actual count.</li> </ul> </li> <li>• 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.</li> </ul>
Origination	<ul style="list-style-type: none"> <li>• 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.</li> </ul>
Capabilities and Limitations	<ul style="list-style-type: none"> <li>• 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.</li> <li>• The 997 is designed to report the specific data segment and data element that carries the error.</li> <li>• These standards are based on the ASC X12 Ver/Rel 004010 standard.</li> <li>• 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.</li> </ul>
Processing	<ul style="list-style-type: none"> <li>• Each 997 FA will be returned within one business day of receipt of the initiating transaction.</li> </ul>
Cross referencing Request and Response transactions	<ul style="list-style-type: none"> <li>• 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.</li> </ul>
Definitions	<ul style="list-style-type: none"> <li>• Syntax - the organization of the data.</li> <li>• Semantics – the meaning of the data.</li> </ul>
Transaction Set Maintenance Note	<ul style="list-style-type: none"> <li>• 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.</li> </ul>

# 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.

<u>Page No.</u>	<u>Pos. No.</u>	<u>Seg. ID</u>	<u>Name</u>	<u>Req. Des.</u>	<u>Max.Use</u>	<u>Loop Repeat</u>	<u>Notes and Comments</u>
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

- 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.
- 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.
- 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

- 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).

**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**

	<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
	<u>Des.</u>	<u>Element</u>		
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

**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**

	<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
	<u>Des.</u>	<u>Element</u>		
<b>Mand</b>	<b>AK101</b>	<b>479</b>	<b>Functional Identifier Code</b>	<b>M ID 2/2</b>
			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)	
			PT Product Transfer and Resale Report (867)	
			RA Payment Order/Remittance Advice (820)	
			SU Account Assignment/Inquiry and Service/Status (248)	
<b>Mand</b>	<b>AK102</b>	<b>28</b>	<b>Group Control Number</b>	<b>M N0 1/9</b>
			Assigned number originated and maintained by the sender	

**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\*00000001

**Data Element Summary**

<u>Ref.</u>	<u>Data</u>	<u>Element</u>	<u>Name</u>	<u>Attributes</u>
<b>Mand</b>	<b>AK201</b>	<b>143</b>	<b>Transaction Set Identifier Code</b>	<b>M ID 3/3</b>
			248 Account Assignment/Inquiry and Service/Status	
			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	
<b>Mand</b>	<b>AK202</b>	<b>329</b>	<b>Transaction Set Control Number</b>	<b>M AN 4/9</b>
			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  
**Syntax Notes:**  
**Semantic Notes:**  
**Comments:**  
**Notes:** AK3\*BIG\*2\*\*8

**Data Element Summary**

	<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
	<u>Des.</u>	<u>Element</u>		
Mand	AK301	721	<b>Segment ID Code</b> Code defining the segment ID of the data segment in error	<b>M ID 2/3</b>
Mand	AK302	719	<b>Segment Position in Transaction Set</b> The numerical count position of this data segment from the start of the transaction set: the transaction set header is count position 1	<b>M N0 1/6</b>
Optional	AK303	447	<b>Loop Identifier Code</b> The loop ID number given on the transaction set diagram is the value for this data element in segments LS and LE	<b>O AN 1/6</b>
Optional	AK304	720	<b>Segment Syntax Error Code</b> Code indicating error found based on the syntax editing of a segment	<b>O ID 1/3</b>
			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	

**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**

	<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
Mand	AK401	C030	<b>Position in Segment</b> 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	<b>Element Position in Segment</b> 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	<b>Component Data Element Position in Composite</b> To identify the component data element position within the composite that is in error	O N0 1/2
Optional	AK402	725	<b>Data Element Reference Number</b> Reference number used to locate the data element in the Data Element Dictionary	O N0 1/4
Mand	AK403	723	<b>Data Element Syntax Error Code</b> 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	<b>Copy of Bad Data Element</b>	O AN 1/99

**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**

	<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Attributes</u>
<b>Mand</b>	<b>AK501</b>	<b>717</b>	<b>Transaction Set Acknowledgment Code</b>	<b>M ID 1/1</b>
			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	
<b>Optional</b>	<b>AK502</b>	<b>718</b>	<b>Transaction Set Syntax Error Code</b>	<b>O ID 1/3</b>
			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	

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- 22 Segment  
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

**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

**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

**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

**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

**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**

	<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
	<u>Des.</u>	<u>Element</u>		
Mand	AK901	715	<b>Functional Group Acknowledge Code</b>	M ID 1/1
			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	
Mand	AK902	97	<b>Number of Transaction Sets Included</b>	M N0 1/6
			Total number of transaction sets included in the functional group or interchange (transmission) group terminated by the trailer containing this data element	
Mand	AK903	123	<b>Number of Received Transaction Sets</b>	M N0 1/6
			Number of Transaction Sets received	
Mand	AK904	2	<b>Number of Accepted Transaction Sets</b>	M N0 1/6
			Number of accepted Transaction Sets in a Functional Group	

**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

**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

**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

**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
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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\*00000001

**Data Element Summary**

	<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Attributes</u>
	<u>Des.</u>	<u>Element</u>		
Mand	SE01	96	Number of Included Segments	M NO 1/10
			Total number of segments included in a transaction set including ST and SE segments	
Mand	SE02	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	