

## Exostar (997) Functional Acknowledgment Transaction Sets

---

Below are the segments and elements that may be used by Exostar within the EDI 997 Functional Acknowledgment. A basic 997 example is shown at the end of this guide which utilizes the AK1, AK2, AK5 and AK9 segments.

GS01 = Functional Identifier  
FA - Functional Acknowledgment

GS02 = Application Sender Code

GS03 = Application Receiver Code

GS04 = Data Interchange Date - Date Format (CCYYMMDD)

GS05 = Data Interchange Time (4-8 characters)

GS06 = Data Interchange Control Number  
Assigned number originated by sender.  
Sequential number increases each time transmission is sent (1-9 characters)

GS07 = Responsible Agency code  
X - Accredited Standards Committee X12

GS08 = ANSI version release Identifier  
004010

ST01 = Transaction Set Identifier Code  
997 - Functional Acknowledgment

ST02 = Transaction Set Control Number  
Control number assigned by sender for a transaction set functional group  
(4-9 characters)

AK101 = Functional Identifier Code  
CA - Purchase Order Change Acknowledgment/Request  
IN - Invoice Information  
PC - Purchase Order Change Request  
PO - Purchase Order  
PS - Planning Schedule  
SH - Ship Notice/Manifest

AK102 = Group Control Number  
Control number assigned by sender (1-9 characters)

AK201 = Transaction Set Identifier Code  
810 - Invoice  
830 - Planning Schedule  
850 - Purchase Order  
856 - Ship Notice/Manifest  
860 - Purchase Order Change Request  
865 - Purchase Order Change Acknowledgment/Request

AK202 = Transaction Set Control Number  
Control number assigned by sender for a transaction set (4-9 characters)

## Exostar (997) Functional Acknowledgment Transaction Sets

---

- AK301 = Segment ID Code
- AK302 = Segment Position in Transaction Set
- AK303 = Loop Identifier Code
- AK304 = Segment Syntax Error Code
  - 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
  
- AK401 = Position in Segment
- AK402 = Data Element Reference Number
- AK403 = Data Element Syntax Error Code
  - 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
- AK404 = Copy of Bad Data Element

## Exostar (997) Functional Acknowledgment Transaction Sets

---

AK501 = Transaction Set Acknowledgment Code

- 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

AK502 = Transaction Set Syntax Error Code

- 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

## Exostar (997) Functional Acknowledgment Transaction Sets

---

AK901 = Functional Group Acknowledge Code

- 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

AK902 = Number of Transaction Sets Included

AK903 = Number of Received Transaction Sets

AK904 = Number of Accepted Transaction Sets

AK905 = Functional Group Syntax Error Code

- 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

## Exostar (997) Functional Acknowledgment Transaction Sets

---

Example:

Example of a basic Exostar 997 Functional Acknowledgment with no errors encountered. Additional segments/elements can be added as needed per this guide when errors are present:

```
ISA~00~      ~00~      ~08~999957710  ~12~4252660502
~150504~2046~U~00401~000168550~0~P~^|
GS~FA~999957710~BCAERP~20150504~2046~168550~X~004010|
ST~997~168555|
AK1~PO~001186799|
AK2~850~001186799|
AK5~A|
AK9~A~1~1~1|
SE~6~168555|
GE~1~168550|
IEA~1~000168550|
```

Example updated: 07/17/19 for delimiters