

# **International Truck and Engine Corporation**

**EDI 997 - Functional Acknowledgement**

**VERSION: ANSI ASC X12 Version Release 2040 FINAL**

|                          |                                    |
|--------------------------|------------------------------------|
| <b>Publication Date:</b> | <b>April 14, 1992</b>              |
| <b>Created:</b>          | <b>September 22, 1997 04:34 PM</b> |

# 997 Functional Acknowledgment

## Functional Group=FA

This standard provides the format and establishes the data contents of a functional acknowledgment transaction set. The purpose of this standard is 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>Id</u> | <u>Segment Name</u>               | <u>Req</u> | <u>Max Use</u> | <u>Repeat</u> | <u>Notes</u> | <u>Usage</u> |
|----------------------|-----------|-----------------------------------|------------|----------------|---------------|--------------|--------------|
| 010                  | ST        | Transaction Set Header            | M          | 1              |               | N1/010       | Used         |
| 020                  | AK1       | Functional Group Response Header  | M          | 1              |               | N1/020       | Used         |
| <b>LOOP ID - AK2</b> |           |                                   |            |                | <b>999999</b> |              |              |
| 030                  | AK2       | Transaction Set Response Header   | O          | 1              |               | N1/030       | Used         |
| <b>LOOP ID - AK3</b> |           |                                   |            |                | <b>999999</b> |              |              |
| 040                  | AK3       | Data Segment Note                 | O          | 1              |               |              | Used         |
| 050                  | AK4       | Data Element Note                 | O          | 99             |               |              | Used         |
| 060                  | AK5       | Transaction Set Response Trailer  | M          | 1              |               |              | Used         |
| 070                  | AK9       | Functional Group Response Trailer | M          | 1              |               |              | Used         |
| 080                  | SE        | Transaction Set Trailer           | M          | 1              |               |              | Used         |

### Notes:

1/010 These acknowledgments shall not be acknowledged, thereby preventing an endless cycle of acknowledgments of acknowledgments.

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.

1/020 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 each functional group that is being acknowledged.

1/030 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.

# ST Transaction Set Header

|                     |             |
|---------------------|-------------|
| Pos: 010            | Max: 1      |
| Heading - Mandatory |             |
| Loop: N/A           | Elements: 2 |

To indicate the start of a transaction set and to assign a control number

## Element Summary:

| <u>Ref</u> | <u>Id</u> | <u>Element Name</u>   | <u>Req</u> | <u>Type</u> | <u>Min/Max</u> | <u>Usage</u> |
|------------|-----------|---|------------|-------------|----------------|--------------|
| ST01       | 143       | <b>Transaction Set Identifier Code</b><br><b>Description:</b> Code uniquely identifying a Transaction Set.                                | M          | ID          | 3/3            | Used         |
|            |           | <u>Code</u> <u>Name</u><br>997                              X12.20 Functional Acknowledgment  |            |             |                |              |
| ST02       | 329       | <b>Transaction Set Control Number</b><br><b>Description:</b> Identifying control number assigned by the originator for a transaction set. | M          | AN          | 4/9            | Used         |

## Comments:

- The transaction set identifier (ST01) is intended for use by the translation routines of the interchange partners to select the appropriate transaction set definition (e.g., 810 selects the invoice transaction set).

## Trading Partner:

Example:

ST\*997\*0001 n/1

# AK1 Functional Group Response Header

|                     |             |
|---------------------|-------------|
| Pos: 020            | Max: 1      |
| Heading - Mandatory |             |
| Loop: N/A           | Elements: 2 |

To start acknowledgment of a functional group.

## Element Summary:

| <u>Ref</u> | <u>Id</u> | <u>Element Name</u>   | <u>Req</u> | <u>Type</u> | <u>Min/Max</u> | <u>Usage</u> |
|------------|-----------|---|------------|-------------|----------------|--------------|
| AK101      | 479       | <b>Functional Identifier Code</b><br><b>Description:</b> Code identifying a group of application related Transaction Sets.<br><b>Trading Partner:</b> This value must match the functional group identifier GS01 of the group being acknowledged. | M          | ID          | 2/2            | Used         |
| AK102      | 28        | <b>Group Control Number</b><br><b>Description:</b> Assigned number originated and maintained by the sender.   | M          | N0          | 1/9            | Used         |

## Comments:

- AK102 is the data interchange control number found in the GS segment in the functional group being acknowledged.

## Trading Partner:

Example:

AK1\*PS\*12345 n/1

# AK2 Transaction Set Response Header

|                    |             |
|--------------------|-------------|
| Pos: 030           | Max: 1      |
| Heading - Optional |             |
| Loop: AK2          | Elements: 2 |

To start acknowledgment of a single transaction set.

## Element Summary:

| <u>Ref</u> | <u>Id</u> | <u>Element Name</u>   | <u>Req</u> | <u>Type</u> | <u>Min/Max</u> | <u>Usage</u> |
|------------|-----------|---|------------|-------------|----------------|--------------|
| AK201      | 143       | <b>Transaction Set Identifier Code</b><br><b>Description:</b> Code uniquely identifying a Transaction Set.<br><b>Trading Partner:</b> Must match value in ST01 of transaction being acknowledged. | M          | ID          | 3/3            | Used         |
| AK202      | 329       | <b>Transaction Set Control Number</b><br><b>Description:</b> Identifying control number assigned by the originator for a transaction set.   | M          | AN          | 4/9            | Used         |

## Comments:

- AK202 is the transaction set control number found in the ST segment in the transaction set being acknowledged.

## Trading Partner:

Example:

AK2\*830\*0002 n/l

# AK3 Data Segment Note

|                    |             |
|--------------------|-------------|
| Pos: 040           | Max: 1      |
| Heading - Optional |             |
| Loop: AK3          | Elements: 8 |

To report errors in a data segment and to identify the location of the data segment.

## Element Summary:

| <u>Ref</u>  | <u>Id</u>                              | <u>Element Name</u>  | <u>Req</u>  | <u>Type</u> | <u>Min/Max</u> | <u>Usage</u>            |   |                    |   |                           |   |                                |   |                             |   |  |   |                                |  |  |  |  |
|-------------|--|--|-------------|-------------|----------------|-------------------------|---|--------------------|---|---------------------------|---|--------------------------------|---|-----------------------------|---|--|---|--------------------------------|--|--|--|--|
| AK301       | 721                                    | <b>Segment ID Code</b><br><b>Description:</b> Code defining the segment ID of the data segment in error. See Segment Directory.  | M           | ID          | 2/3            | Used                    |   |                    |   |                           |   |                                |   |                             |   |  |   |                                |  |  |  |  |
| AK302       | 719                                    | <b>Segment Position in Transaction Set</b><br><b>Description:</b> 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            | Used                    |   |                    |   |                           |   |                                |   |                             |   |  |   |                                |  |  |  |  |
| AK303       | 447                                    | <b>Loop Identifier Code</b><br><b>Description:</b> Code identifying a loop within the transaction set which is bounded by the related LS and LE segments (corresponding LS and LE segments must have the same value for loop identifier). (Note: The loop ID number given on the transaction set diagram is recommended as the value for this data element in segments LS and LE.)   | O           | ID          | 1/4            | Used                    |   |                    |   |                           |   |                                |   |                             |   |  |   |                                |  |  |  |  |
| AK304       | 720                                    | <b>Segment Syntax Error Code</b><br><b>Description:</b> Code indicating error found based on the syntax editing of a segment   | O           | ID          | 1/3            | Used                    |   |                    |   |                           |   |                                |   |                             |   |  |   |                                |  |  |  |  |
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| <u>Code</u> | <u>Name</u>                            |  |             |             |                |                         |   |                    |   |                           |   |                                |   |                             |   |  |   |                                |  |  |  |  |
| 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         |  |             |             |                |                         |   |                    |   |                           |   |                                |   |                             |   |  |   |                                |  |  |  |  |
| AK305       | 720                                    | <b>Segment Syntax Error Code</b><br><b>Description:</b> Code indicating error found based on the syntax editing of a segment   | O           | ID          | 1/3            | Used                    |   |                    |   |                           |   |                                |   |                             |   |  |   |                                |  |  |  |  |
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| <u>Code</u> | <u>Name</u>                            |  |             |             |                |                         |   |                    |   |                           |   |                                |   |                             |   |  |   |                                |  |  |  |  |
| 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         |  |             |             |                |                         |   |                    |   |                           |   |                                |   |                             |   |  |   |                                |  |  |  |  |
| AK306       | 720                                    | <b>Segment Syntax Error Code</b><br><b>Description:</b> Code indicating error found based on the syntax editing of a segment   | O           | ID          | 1/3            | Used                    |   |                    |   |                           |   |                                |   |                             |   |  |   |                                |  |  |  |  |
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| <u>Code</u> | <u>Name</u>                            |  |             |             |                |                         |   |                    |   |                           |   |                                |   |                             |   |  |   |                                |  |  |  |  |
| 1           | Unrecognized segment ID                |  |             |             |                |                         |   |                    |   |                           |   |                                |   |                             |   |  |   |                                |  |  |  |  |
| 2           | Unexpected segment                     |  |             |             |                |                         |   |                    |   |                           |   |                                |   |                             |   |  |   |                                |  |  |  |  |

| <u>Ref</u>   | <u>Id</u>                              | <u>Element Name</u>   | <u>Req</u>  | <u>Type</u> | <u>Min/Max</u> | <u>Usage</u>              |   |                                |   |                             |   |  |   |                                |   |  |   |                                |  |  |  |  |
|--------------|--|---|-------------|-------------|----------------|---------------------------|---|--------------------------------|---|-----------------------------|---|--|---|--------------------------------|---|--|---|--------------------------------|--|--|--|--|
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| <u>Code</u>  | <u>Name</u>                            |   |             |             |                |                           |   |                                |   |                             |   |  |   |                                |   |  |   |                                |  |  |  |  |
| 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         |   |             |             |                |                           |   |                                |   |                             |   |  |   |                                |   |  |   |                                |  |  |  |  |
| <b>AK307</b> | <b>720</b>                             | <b>Segment Syntax Error Code</b>  | <b>O</b>    | <b>ID</b>   | <b>1/3</b>     | <b>Used</b>               |   |                                |   |                             |   |  |   |                                |   |  |   |                                |  |  |  |  |
|              |  | <b>Description:</b> Code indicating error found based on the syntax editing of a segment  |             |             |                |                           |   |                                |   |                             |   |  |   |                                |   |  |   |                                |  |  |  |  |
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| <u>Code</u>  | <u>Name</u>                            |   |             |             |                |                           |   |                                |   |                             |   |  |   |                                |   |  |   |                                |  |  |  |  |
| 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         |   |             |             |                |                           |   |                                |   |                             |   |  |   |                                |   |  |   |                                |  |  |  |  |
| <b>AK308</b> | <b>720</b>                             | <b>Segment Syntax Error Code</b>  | <b>O</b>    | <b>ID</b>   | <b>1/3</b>     | <b>Used</b>               |   |                                |   |                             |   |  |   |                                |   |  |   |                                |  |  |  |  |
|              |  | <b>Description:</b> Code indicating error found based on the syntax editing of a segment  |             |             |                |                           |   |                                |   |                             |   |  |   |                                |   |  |   |                                |  |  |  |  |
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| <u>Code</u>  | <u>Name</u>                            |   |             |             |                |                           |   |                                |   |                             |   |  |   |                                |   |  |   |                                |  |  |  |  |
| 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         |   |             |             |                |                           |   |                                |   |                             |   |  |   |                                |   |  |   |                                |  |  |  |  |

**Trading Partner:**

Example:

AK3\*FST\*10\*\*2 n/l

# AK4 Data Element Note

|                    |             |
|--------------------|-------------|
| Pos: 050           | Max: 99     |
| Heading - Optional |             |
| Loop: AK3          | Elements: 4 |

To report errors in a data element and to identify the location of the data element.

## Element Summary:

| <u>Ref</u>  | <u>Id</u>                                  | <u>Element Name</u>   | <u>Req</u>  | <u>Type</u> | <u>Min/Max</u> | <u>Usage</u>                   |   |  |   |                         |   |                         |   |                        |   |                                    |   |                     |   |              |   |              |  |  |  |  |
|-------------|--|---|-------------|-------------|----------------|--------------------------------|---|--|---|-------------------------|---|-------------------------|---|------------------------|---|------------------------------------|---|---------------------|---|--------------|---|--------------|--|--|--|--|
| AK401       | 722  | <b>Element Position in Segment</b><br><b>Description:</b> This is used to indicate the relative position of the data element in error in this data segment. The count starts with 1 for the data element immediately following the segment ID. This value is 0 for an error in the segment ID.  | M           | N0          | 1/2            | Used                           |   |  |   |                         |   |                         |   |                        |   |                                    |   |                     |   |              |   |              |  |  |  |  |
| AK402       | 725  | <b>Data Element Reference Number</b><br><b>Description:</b> Reference number used to locate the Data Element Dictionary.  | O           | N0          | 1/4            | Used                           |   |  |   |                         |   |                         |   |                        |   |                                    |   |                     |   |              |   |              |  |  |  |  |
| AK403       | 723  | <b>Data Element Syntax Error Code</b><br><b>Description:</b> Code indicating the error found after syntax edits of a data element.  | M           | ID          | 1/3            | Used                           |   |  |   |                         |   |                         |   |                        |   |                                    |   |                     |   |              |   |              |  |  |  |  |
|             |  | <table border="1"> <thead> <tr> <th><u>Code</u></th> <th><u>Name</u></th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Mandatory data element missing</td> </tr> <tr> <td>2</td> <td>Conditional required data element missing.</td> </tr> <tr> <td>3</td> <td>Too many data elements.</td> </tr> <tr> <td>4</td> <td>Data element too short.</td> </tr> <tr> <td>5</td> <td>Data element too long.</td> </tr> <tr> <td>6</td> <td>Invalid character in data element.</td> </tr> <tr> <td>7</td> <td>Invalid code value.</td> </tr> <tr> <td>8</td> <td>Invalid Date</td> </tr> <tr> <td>9</td> <td>Invalid Time</td> </tr> </tbody> </table> | <u>Code</u> | <u>Name</u> | 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 |  |  |  |  |
| <u>Code</u> | <u>Name</u>                                |   |             |             |                |                                |   |  |   |                         |   |                         |   |                        |   |                                    |   |                     |   |              |   |              |  |  |  |  |
| 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                               |   |             |             |                |                                |   |  |   |                         |   |                         |   |                        |   |                                    |   |                     |   |              |   |              |  |  |  |  |
| AK404       | 724  | <b>Copy of Bad Data Element</b><br><b>Description:</b> This is a copy of the data element in error.   | O           | AN          | 1/99           | Used                           |   |  |   |                         |   |                         |   |                        |   |                                    |   |                     |   |              |   |              |  |  |  |  |

## Trading Partner:

Example:

AK4\*2\*680\*1 n/1



# AK5 Transaction Set Response Trailer

|                     |             |
|---------------------|-------------|
| Pos: 060            | Max: 1      |
| Heading - Mandatory |             |
| Loop: AK2           | Elements: 6 |

To acknowledge acceptance or rejection and to report errors in a transaction set.

## Element Summary:

| <u>Ref</u>  | <u>Id</u>   | <u>Element Name</u>   | <u>Req</u>  | <u>Type</u> | <u>Min/Max</u> | <u>Usage</u>                  |   |                                 |   |   |   |   |   |                               |   |   |   |   |  |  |  |  |
|-------------|---|---|-------------|-------------|----------------|-------------------------------|---|---------------------------------|---|---|---|---|---|-------------------------------|---|---|---|---|--|--|--|--|
| AK501       | 717   | <b>Transaction Set Acknowledgment Code</b><br><b>Description:</b> Code indicating accept or reject condition based on the syntax editing of the transaction set.  | M           | ID          | 1/1            | Used                          |   |                                 |   |   |   |   |   |                               |   |   |   |   |  |  |  |  |
|             |   | <table border="1"> <thead> <tr> <th><u>Code</u></th> <th><u>Name</u></th> </tr> </thead> <tbody> <tr> <td>A</td> <td>Accepted</td> </tr> <tr> <td>E</td> <td>Accepted But Errors Were Noted</td> </tr> <tr> <td>R</td> <td>Rejected</td> </tr> </tbody> </table>  | <u>Code</u> | <u>Name</u> | A              | Accepted                      | E | Accepted But Errors Were Noted  | R | Rejected  |   |   |   |                               |   |   |   |   |  |  |  |  |
| <u>Code</u> | <u>Name</u>   |   |             |             |                |                               |   |                                 |   |   |   |   |   |                               |   |   |   |   |  |  |  |  |
| A           | Accepted  |   |             |             |                |                               |   |                                 |   |   |   |   |   |                               |   |   |   |   |  |  |  |  |
| E           | Accepted But Errors Were Noted                                    |   |             |             |                |                               |   |                                 |   |   |   |   |   |                               |   |   |   |   |  |  |  |  |
| R           | Rejected  |   |             |             |                |                               |   |                                 |   |   |   |   |   |                               |   |   |   |   |  |  |  |  |
| AK502       | 718   | <b>Transaction Set Syntax Error Code</b><br><b>Description:</b> Code indicating error found based on the syntax editing of a transaction set.   | O           | ID          | 1/3            | Used                          |   |                                 |   |   |   |   |   |                               |   |   |   |   |  |  |  |  |
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| <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 Error                                     |   |             |             |                |                               |   |                                 |   |   |   |   |   |                               |   |   |   |   |  |  |  |  |
| 6           | Missing or Invalid Transaction Set Identifier                     |   |             |             |                |                               |   |                                 |   |   |   |   |   |                               |   |   |   |   |  |  |  |  |
| 7           | Missing or Invalid Transaction Set Control Number                 |   |             |             |                |                               |   |                                 |   |   |   |   |   |                               |   |   |   |   |  |  |  |  |
| AK503       | 718   | <b>Transaction Set Syntax Error Code</b><br><b>Description:</b> Code indicating error found based on the syntax editing of a transaction set.   | O           | ID          | 1/3            | Used                          |   |                                 |   |   |   |   |   |                               |   |   |   |   |  |  |  |  |
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| <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 Error                                     |   |             |             |                |                               |   |                                 |   |   |   |   |   |                               |   |   |   |   |  |  |  |  |
| 6           | Missing or Invalid Transaction Set Identifier                     |   |             |             |                |                               |   |                                 |   |   |   |   |   |                               |   |   |   |   |  |  |  |  |
| 7           | Missing or Invalid Transaction Set Control Number                 |   |             |             |                |                               |   |                                 |   |   |   |   |   |                               |   |   |   |   |  |  |  |  |
| AK504       | 718   | <b>Transaction Set Syntax Error Code</b><br><b>Description:</b> Code indicating error found based on the syntax editing of a transaction set.   | O           | ID          | 1/3            | Used                          |   |                                 |   |   |   |   |   |                               |   |   |   |   |  |  |  |  |
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| <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           |   |             |             |                |                               |   |                                 |   |   |   |   |   |                               |   |   |   |   |  |  |  |  |

| <u>Ref</u>   | <u>Id</u>   | <u>Element Name</u>   | <u>Req</u>  | <u>Type</u> | <u>Min/Max</u> | <u>Usage</u>                  |   |   |   |   |   |   |   |                               |   |   |   |   |  |  |  |  |
|--------------|---|---|-------------|-------------|----------------|-------------------------------|---|---|---|---|---|---|---|-------------------------------|---|---|---|---|--|--|--|--|
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| <u>Code</u>  | <u>Name</u>   |   |             |             |                |                               |   |   |   |   |   |   |   |                               |   |   |   |   |  |  |  |  |
| 5            | One or More Segments in Error                                     |   |             |             |                |                               |   |   |   |   |   |   |   |                               |   |   |   |   |  |  |  |  |
| 6            | Missing or Invalid Transaction Set Identifier                     |   |             |             |                |                               |   |   |   |   |   |   |   |                               |   |   |   |   |  |  |  |  |
| 7            | Missing or Invalid Transaction Set Control Number                 |   |             |             |                |                               |   |   |   |   |   |   |   |                               |   |   |   |   |  |  |  |  |
| <b>AK505</b> | <b>718</b>  | <b>Transaction Set Syntax Error Code</b>  | <b>O</b>    | <b>ID</b>   | <b>1/3</b>     | <b>Used</b>                   |   |   |   |   |   |   |   |                               |   |   |   |   |  |  |  |  |
|              |   | <b>Description:</b> Code indicating error found based on the syntax editing of a transaction set.   |             |             |                |                               |   |   |   |   |   |   |   |                               |   |   |   |   |  |  |  |  |
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| <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 Error                                     |   |             |             |                |                               |   |   |   |   |   |   |   |                               |   |   |   |   |  |  |  |  |
| 6            | Missing or Invalid Transaction Set Identifier                     |   |             |             |                |                               |   |   |   |   |   |   |   |                               |   |   |   |   |  |  |  |  |
| 7            | Missing or Invalid Transaction Set Control Number                 |   |             |             |                |                               |   |   |   |   |   |   |   |                               |   |   |   |   |  |  |  |  |
| <b>AK506</b> | <b>718</b>  | <b>Transaction Set Syntax Error Code</b>  | <b>O</b>    | <b>ID</b>   | <b>1/3</b>     | <b>Used</b>                   |   |   |   |   |   |   |   |                               |   |   |   |   |  |  |  |  |
|              |   | <b>Description:</b> Code indicating error found based on the syntax editing of a transaction set.   |             |             |                |                               |   |   |   |   |   |   |   |                               |   |   |   |   |  |  |  |  |
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| <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 Error                                     |   |             |             |                |                               |   |   |   |   |   |   |   |                               |   |   |   |   |  |  |  |  |
| 6            | Missing or Invalid Transaction Set Identifier                     |   |             |             |                |                               |   |   |   |   |   |   |   |                               |   |   |   |   |  |  |  |  |
| 7            | Missing or Invalid Transaction Set Control Number                 |   |             |             |                |                               |   |   |   |   |   |   |   |                               |   |   |   |   |  |  |  |  |

**Trading Partner:**

Example:

AK5\*E\*2 n/l

# AK9 Functional Group Response Trailer

|                     |             |
|---------------------|-------------|
| Pos: 070            | Max: 1      |
| Heading - Mandatory |             |
| Loop: N/A           | Elements: 9 |

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.

## Element Summary:

| <u>Ref</u>  | <u>Id</u>   | <u>Element Name</u>  | <u>Req</u>  | <u>Type</u> | <u>Min/Max</u> | <u>Usage</u>                   |   |  |   |   |   |   |   |   |  |  |  |  |
|-------------|---|--|-------------|-------------|----------------|--------------------------------|---|--|---|---|---|---|---|---|--|--|--|--|
| AK901       | 715   | <b>Functional Group Acknowledge Code</b><br><b>Description:</b> Code indicating accept or reject condition based on the syntax editing of the functional group.  | M           | ID          | 1/1            | Used                           |   |  |   |   |   |   |   |   |  |  |  |  |
|             |   | <table border="0"> <thead> <tr> <th><u>Code</u></th> <th><u>Name</u></th> </tr> </thead> <tbody> <tr> <td>A</td> <td>Accepted</td> </tr> <tr> <td>E</td> <td>Accepted, but errors were noted.</td> </tr> <tr> <td>P</td> <td>Partially Accepted, at least on transaction set was rejected.</td> </tr> <tr> <td>R</td> <td>Rejected</td> </tr> </tbody> </table>  | <u>Code</u> | <u>Name</u> | A              | Accepted                       | E | Accepted, but errors were noted.       | P | Partially Accepted, at least on transaction set was rejected. | R | Rejected  |   |   |  |  |  |  |
| <u>Code</u> | <u>Name</u>   |  |             |             |                |                                |   |  |   |   |   |   |   |   |  |  |  |  |
| A           | Accepted  |  |             |             |                |                                |   |  |   |   |   |   |   |   |  |  |  |  |
| E           | Accepted, but errors were noted.  |  |             |             |                |                                |   |  |   |   |   |   |   |   |  |  |  |  |
| P           | Partially Accepted, at least on transaction set was rejected.                           |  |             |             |                |                                |   |  |   |   |   |   |   |   |  |  |  |  |
| R           | Rejected  |  |             |             |                |                                |   |  |   |   |   |   |   |   |  |  |  |  |
| AK902       | 97  | <b>Number of Transaction Sets Included</b><br><b>Description:</b> 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            | Used                           |   |  |   |   |   |   |   |   |  |  |  |  |
| AK903       | 123   | <b>Number of Received Transaction Sets</b><br><b>Description:</b> Number of Transaction Sets received.   | M           | N0          | 1/6            | Used                           |   |  |   |   |   |   |   |   |  |  |  |  |
| AK904       | 2   | <b>Number of Accepted Transaction Sets</b><br><b>Description:</b> Number of accepted Transaction Sets in a Functional Group.   | M           | N0          | 1/6            | Used                           |   |  |   |   |   |   |   |   |  |  |  |  |
| AK905       | 716   | <b>Functional Group Syntax Error Code</b><br><b>Description:</b> Code indicating error found based on the syntax editing of the functional group header and/or trailer.  | O           | ID          | 1/3            | Used                           |   |  |   |   |   |   |   |   |  |  |  |  |
|             |   | <table border="0"> <thead> <tr> <th><u>Code</u></th> <th><u>Name</u></th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Functional Group Not Supported</td> </tr> <tr> <td>2</td> <td>Functional Group Version Not Supported</td> </tr> <tr> <td>3</td> <td>Functional Group Trailer Missing</td> </tr> <tr> <td>4</td> <td>Data Interchange Control Number in the Functional Group Header and Trailer Do Not Agree</td> </tr> <tr> <td>5</td> <td>Number of Included Transaction Sets Does Not Match Actual Count</td> </tr> </tbody> </table> | <u>Code</u> | <u>Name</u> | 1              | Functional Group Not Supported | 2 | Functional Group Version Not Supported | 3 | Functional Group Trailer Missing                              | 4 | Data Interchange Control Number in the Functional Group Header and Trailer Do Not Agree | 5 | Number of Included Transaction Sets Does Not Match Actual Count |  |  |  |  |
| <u>Code</u> | <u>Name</u>   |  |             |             |                |                                |   |  |   |   |   |   |   |   |  |  |  |  |
| 1           | Functional Group Not Supported  |  |             |             |                |                                |   |  |   |   |   |   |   |   |  |  |  |  |
| 2           | Functional Group Version Not Supported  |  |             |             |                |                                |   |  |   |   |   |   |   |   |  |  |  |  |
| 3           | Functional Group Trailer Missing  |  |             |             |                |                                |   |  |   |   |   |   |   |   |  |  |  |  |
| 4           | Data Interchange Control Number in the Functional Group Header and Trailer Do Not Agree |  |             |             |                |                                |   |  |   |   |   |   |   |   |  |  |  |  |
| 5           | Number of Included Transaction Sets Does Not Match Actual Count                         |  |             |             |                |                                |   |  |   |   |   |   |   |   |  |  |  |  |
| AK906       | 716   | <b>Functional Group Syntax Error Code</b><br><b>Description:</b> Code indicating error found based on the syntax editing of the functional group header and/or trailer.  | O           | ID          | 1/3            | Used                           |   |  |   |   |   |   |   |   |  |  |  |  |
|             |   | <table border="0"> <thead> <tr> <th><u>Code</u></th> <th><u>Name</u></th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Functional Group Not Supported</td> </tr> <tr> <td>2</td> <td>Functional Group Version Not Supported</td> </tr> <tr> <td>3</td> <td>Functional Group Trailer Missing</td> </tr> <tr> <td>4</td> <td>Data Interchange Control Number in the Functional Group Header and Trailer Do Not Agree</td> </tr> <tr> <td>5</td> <td>Number of Included Transaction Sets Does Not</td> </tr> </tbody> </table>                    | <u>Code</u> | <u>Name</u> | 1              | Functional Group Not Supported | 2 | Functional Group Version Not Supported | 3 | Functional Group Trailer Missing                              | 4 | Data Interchange Control Number in the Functional Group Header and Trailer Do Not Agree | 5 | Number of Included Transaction Sets Does Not                    |  |  |  |  |
| <u>Code</u> | <u>Name</u>   |  |             |             |                |                                |   |  |   |   |   |   |   |   |  |  |  |  |
| 1           | Functional Group Not Supported  |  |             |             |                |                                |   |  |   |   |   |   |   |   |  |  |  |  |
| 2           | Functional Group Version Not Supported  |  |             |             |                |                                |   |  |   |   |   |   |   |   |  |  |  |  |
| 3           | Functional Group Trailer Missing  |  |             |             |                |                                |   |  |   |   |   |   |   |   |  |  |  |  |
| 4           | Data Interchange Control Number in the Functional Group Header and Trailer Do Not Agree |  |             |             |                |                                |   |  |   |   |   |   |   |   |  |  |  |  |
| 5           | Number of Included Transaction Sets Does Not  |  |             |             |                |                                |   |  |   |   |   |   |   |   |  |  |  |  |

| <u>Ref</u>   | <u>Id</u>  | <u>Element Name</u>  | <u>Req</u> | <u>Type</u> | <u>Min/Max</u> | <u>Usage</u> |
|--------------|------------|--|------------|-------------|----------------|--------------|
|              |            | <u>Code</u> <u>Name</u>  |            |             |                |              |
|              |            | Match Actual Count   |            |             |                |              |
| <b>AK907</b> | <b>716</b> | <b>Functional Group Syntax Error Code</b>  | <b>O</b>   | <b>ID</b>   | <b>1/3</b>     | <b>Used</b>  |
|              |            | <b>Description:</b> Code indicating error found based on the syntax editing of the functional group header and/or trailer. |            |             |                |              |
|              |            | <u>Code</u> <u>Name</u>  |            |             |                |              |
|              |            | 1      Functional Group Not Supported  |            |             |                |              |
|              |            | 2      Functional Group Version Not Supported  |            |             |                |              |
|              |            | 3      Functional Group Trailer Missing  |            |             |                |              |
|              |            | 4      Data Interchange Control Number in the Functional Group Header and Trailer Do Not Agree                             |            |             |                |              |
|              |            | 5      Number of Included Transaction Sets Does Not Match Actual Count   |            |             |                |              |
| <b>AK908</b> | <b>716</b> | <b>Functional Group Syntax Error Code</b>  | <b>O</b>   | <b>ID</b>   | <b>1/3</b>     | <b>Used</b>  |
|              |            | <b>Description:</b> Code indicating error found based on the syntax editing of the functional group header and/or trailer. |            |             |                |              |
|              |            | <u>Code</u> <u>Name</u>  |            |             |                |              |
|              |            | 1      Functional Group Not Supported  |            |             |                |              |
|              |            | 2      Functional Group Version Not Supported  |            |             |                |              |
|              |            | 3      Functional Group Trailer Missing  |            |             |                |              |
|              |            | 4      Data Interchange Control Number in the Functional Group Header and Trailer Do Not Agree                             |            |             |                |              |
|              |            | 5      Number of Included Transaction Sets Does Not Match Actual Count   |            |             |                |              |
| <b>AK909</b> | <b>716</b> | <b>Functional Group Syntax Error Code</b>  | <b>O</b>   | <b>ID</b>   | <b>1/3</b>     | <b>Used</b>  |
|              |            | <b>Description:</b> Code indicating error found based on the syntax editing of the functional group header and/or trailer. |            |             |                |              |
|              |            | <u>Code</u> <u>Name</u>  |            |             |                |              |
|              |            | 1      Functional Group Not Supported  |            |             |                |              |
|              |            | 2      Functional Group Version Not Supported  |            |             |                |              |
|              |            | 3      Functional Group Trailer Missing  |            |             |                |              |
|              |            | 4      Data Interchange Control Number in the Functional Group Header and Trailer Do Not Agree                             |            |             |                |              |
|              |            | 5      Number of Included Transaction Sets Does Not Match Actual Count   |            |             |                |              |

**Comments:**

1. If AK901 is 'A' or 'E', then the transmitted functional group is accepted. If AK901 is 'R', then the transmitted group is rejected.

**Trading Partner:**

Example:

AK9\*A\*1\*1\*1 n/1

# SE Transaction Set Trailer

|                            |                    |
|----------------------------|--------------------|
| <b>Pos: 080</b>            | <b>Max: 1</b>      |
| <b>Heading - Mandatory</b> |                    |
| <b>Loop: N/A</b>           | <b>Elements: 2</b> |

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:

| <u>Ref</u> | <u>Id</u> | <u>Element Name</u>  | <u>Req</u> | <u>Type</u> | <u>Min/Max</u> | <u>Usage</u> |
|------------|-----------|--|------------|-------------|----------------|--------------|
| SE01       | 96        | <b>Number of Included Segments</b><br><b>Description:</b> Total number of segments included in a transaction set including ST and SE segments. | M          | N0          | 1/6            | Used         |
| SE02       | 329       | <b>Transaction Set Control Number</b><br><b>Description:</b> Identifying control number assigned by the originator for a transaction set.      | M          | AN          | 4/9            | Used         |

## Comments:

- SE is the last segment of each transaction set.

## Trading Partner:

Example:

SE\*6\*0001 n/1



# **International Truck and Engine Corporation**

## **APPENDIX of EXAMPLES**

**April 14, 1992**

**NOTE:** This document is to be used in conjunction with the International 997 Implementation Guideline to illustrate examples and functional definition of this transaction set.

**Example I: Functional Acknowledgement (997)**

This example shows the looping structure for a Functional Acknowledgement which is partially accepting the transactions within a functional group..

**EDI DATA ELEMENTS**

ST\*997\*0001 n/1

AK1\*SH\*493 n/1

AK2\*856\*0491 n/1

AK3\*CLD\*29 n/1

AK4\*1\*\*1 n/1

AK5\*R\*5 n/1

AK2\*856\*0492 n/1

AK5\*A n/1

AK9\*P\*2\*2\*1 n/1

SE\*10\*0001 n/1

**INTERPRETATION**

Transaction Set ID code is 997 (Functional Acknowledgement);  
Transaction Control Number is 0001.

Functional ID Code of Transaction being acknowledged is SH  
(Ship Notice/Manifest); GS Control Number of acknowledged  
transaction was 493.

Transaction Set ID of acknowledged transaction is 856; ST  
Control Number is 0491.

The Segment containing the error was CLD; the CLD was the  
twenty-ninth segment in the transaction.

The first data element in the segment is mandatory, and it is  
missing.

The transmitted transaction was rejected, because one or more  
segments were in error.

Transaction Set ID of acknowledged transaction is 856; ST  
Control Number is 0492.

The transmitted transaction is accepted.

Part of the transmitted functional group was accepted; Number of  
included transactions sets was 2; Number received transaction sets  
was 2; Number of accepted transaction sets was 1

Number of included segments is 10; Transaction Control Number  
is 0001.