# EANCOM® 2002 S4

# APERAK

# Application error and acknowledgement message

# Edition 2016 Upd. 2021

# 1. Introduction

**Status**

MESSAGE TYPE                    : APERAK

REFERENCE DIRECTORY            : D.01B

EANCOM® SUBSET VERSION         : 004

**Definition**

A message from the party who received an original message, to the party who issued the original message, to acknowledge to the message issuer the receipt of the original message by the recipient's application and to acknowledge errors made during the processing within the application.

**Principles**

A message which is first processed at translator level to detect syntax errors and to acknowledge its receipt (CONTRL) is then transmitted to the receiving application to be processed. Upon reaching this state the receiving application may issue an acknowledgement confirming receipt of the message by the application.

The picture below shows the difference between the CONTRL message and APERAK:
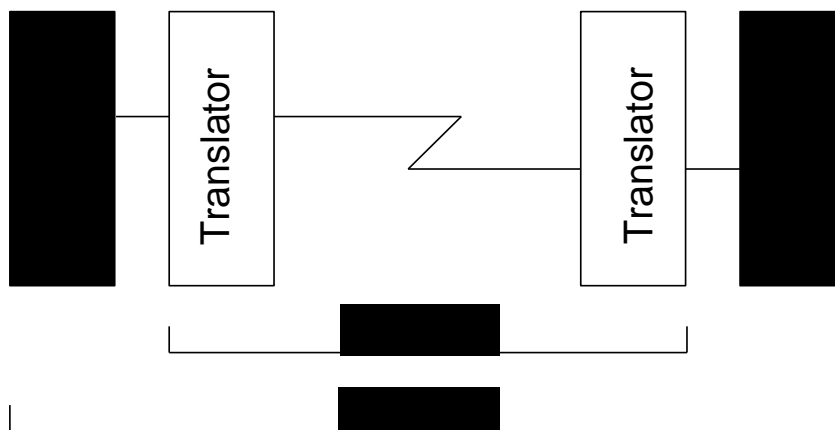


The APERAK message should be generated by the application software NOT by an EDI-translator software.

The APERAK message must NOT be used to acknowledge the receipt of an interchange.
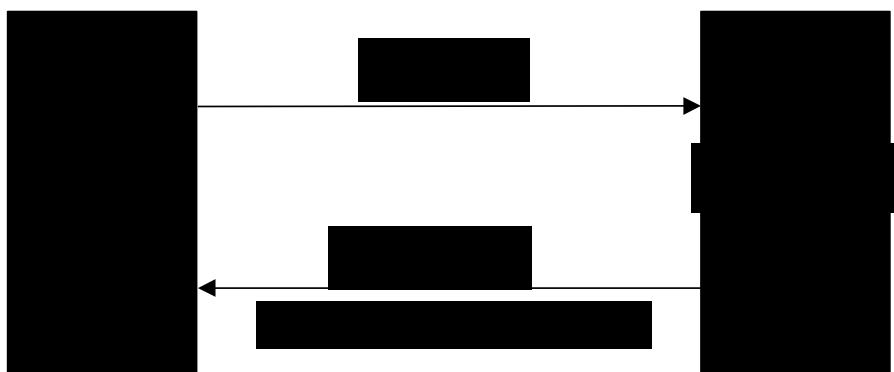
Parties as stated in the message which is being acknowledged, must be mentioned in the APERAK. Such parties are not the sender and the receiver identified at the interchange level.

Within one APERAK message it is NOT possible to acknowledge the receipt of more than one message.

Example with an INVOIC message:

# 1. Introduction

## 2. Message Structure Chart

| | | | | |
|---|---|---|---|---|
| UNA | 1 | C | 1 | - Service string advice |
| UNB | 2 | M | 1 | - Interchange header |

**Application error and acknowledgement message Heading Section**

| | | | | |
|---|---|---|---|---|
| UNH | 3 | M | 1 | - Message header |
| BGM | 4 | M | 1 | - Beginning of message |
| DTM | 5 | C | 9 | - Date/time/period |
| SG1 | | C | 99 | - DOC-DTM |
| DOC | 6 | M | 1 | - Document/message details |
| DTM | 7 | R | 99 | - Date/time/period |
| SG2 | | C | 9 | - RFF-DTM |
| RFF | 8 | M | 1 | - Reference |
| DTM | 9 | C | 9 | - Date/time/period |
| SG3 | | C | 9 | - NAD |
| NAD | 10 | M | 1 | - Name and address |

**Application error and acknowledgement message Detail Section**

| | | | | |
|---|---|---|---|---|
| SG4 | | C | 99999 | - ERC-FTX-SG5 |
| ERC | 11 | M | 1 | - Application error information |
| FTX | 12 | C | 1 | - Free text |
| SG5 + | | C | 9 | - RFF-FTX |
| RFF + | 13 | M | 1 | - Reference |
| FTX + | 14 | C | 9 | - Free text |

**Application error and acknowledgement message Summary Section**

| | | | | |
|---|---|---|---|---|
| UNT | 15 | M | 1 | - Message trailer |
| UNZ | 16 | M | 1 | - Interchange trailer |

## 3. Branching Diagram

## 3. Branching Diagram

```
       ┌1┐──────────────────────┬──────────┐
0      └─┘                       │          │
                              ┌──────┐   ┌──────┐
                              │ UNT  │   │ UNZ  │
                              │M   1 │   │M   1 │
                              │  15  │   │  16  │
                              └──────┘   └──────┘
        ┌──────┐
1       │ SG4  │
        │C 99999│
        │ ERC  │
        │M   1 │
        │  11  │
        └──┬───┘
        ┌──┴────────┐
2       │        ┌──────┐
        │        │ SG5  │
        │        │C   9 │
     ┌──────┐ ┌──────┐
     │ FTX  │ │ RFF  │
     │C   1 │ │M   1 │
     │  12  │ │  13  │
     └──────┘ └──┬───┘
3              ┌──────┐
               │ FTX  │
               │C   9 │
               │  14  │
               └──────┘
```
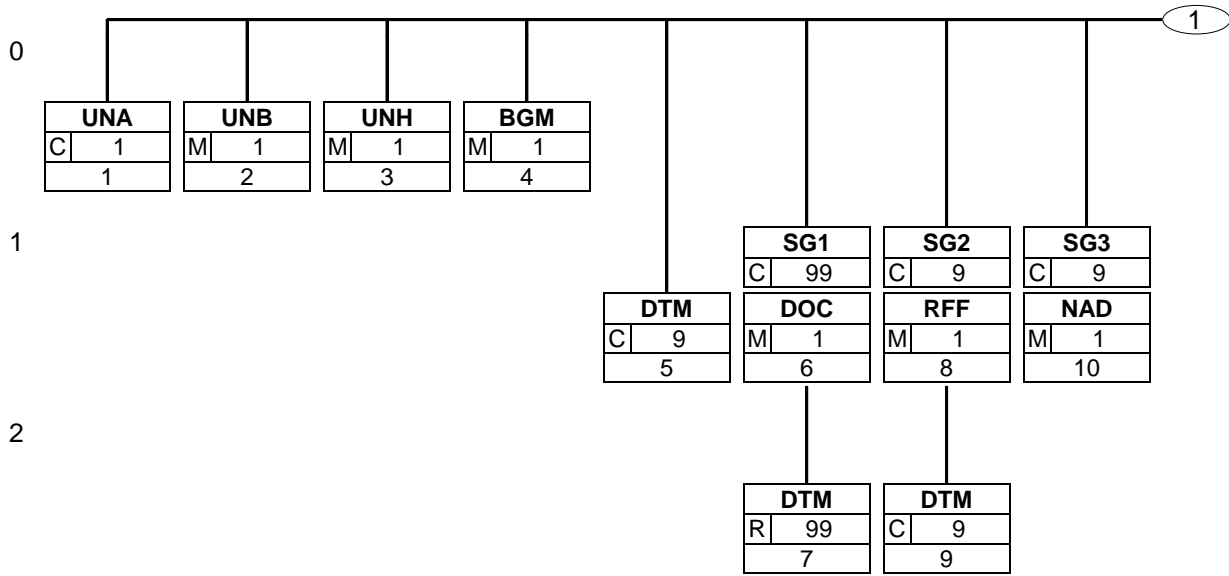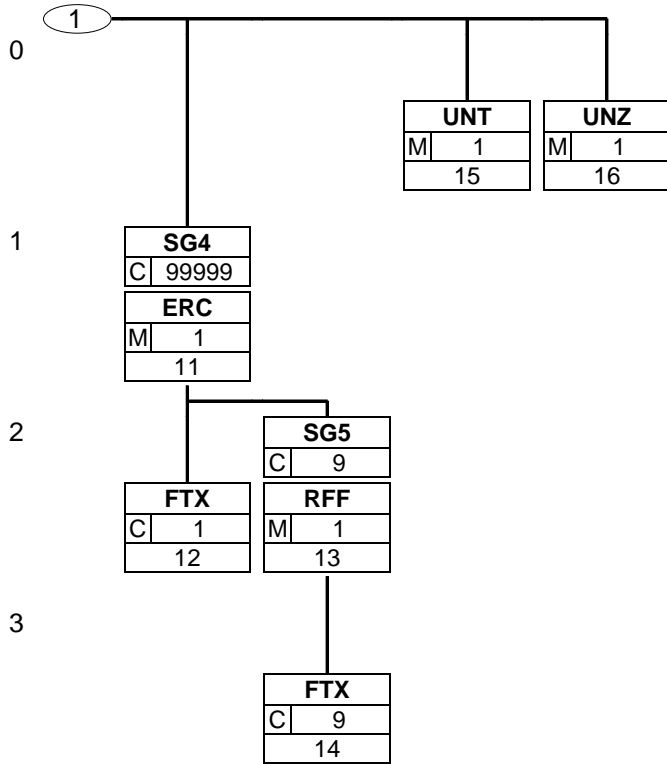
## 4. Segments Description

UNA  - C  1        - Service string advice

This segment is used to inform the receiver of the interchange that a set of service string characters which are different to the default characters are being used.

UNB  - M  1        - Interchange header

This segment is used to envelope the interchange, as well as to identify both, the party to whom the interchange is sent and the party who has sent the interchange. The principle of the UNB segment is the same as a physical envelope which covers one or more letters or documents, and which details, both the address where delivery is to take place and the address from where the envelope has come.

**Application error and acknowledgement message Heading Section**

UNH  - M  1        - Message header

This segment is used to head, identify and specify a message.

BGM  - M  1        - Beginning of message

This segment is used to indicate the type and function of a message and to transmit the identifying number.

DTM  - C  9        - Date/time/period

This segment is used to specify the date of the message.

**SG1**  - C  99      - **DOC-DTM**

A segment group to provide information on the document being acknowledged.

DOC  - M  1        - Document/message details

To identify documents and details directly related to it.

DTM  - R  99       - Date/time/period

To specify date, and/or time, or period.

**SG2**  - C  9       - **RFF-DTM**

A group of segments to specify the document/message to which the current message relates, and related date and time.

RFF  - M  1        - Reference

This segment is used to specify reference numbers related to the message which is being acknowledged.

DTM  - C  9        - Date/time/period

This segment is used to specify dates or periods relating to the previous RFF segment.

**SG3**  - C  9       - **NAD**

A group of segments to specify the identifications of message sender and message receiver.

NAD  - M  1        - Name and address

This segment is used to identify the parties who exchanged the message which is being acknowgded.

**Application error and acknowledgement message Detail Section**

**SG4**  - C  99999   - **ERC-FTX-SG5**

A group of segments to identify the application error(s) within a specified received message and to give specific details related to the error type or to precise the type of acknowledgement.

ERC  - M  1        - Application error information

This segment is used to identify the type of application error in the previously sent message.

## 4. Segments Description

FTX   - C  1           - Free text

This segment is used to provide free text information related to the application error.

**SG5** - C  9          - **RFF-FTX**

A group of segments to specify the functional entity reference (e.g. goods item level, equipment level) relating to the specified error; further details can be added to identify the error more precisely.

RFF   - M  1           - Reference

This segment is used to specify reference numbers related to the message which is being acknowledged.

FTX   - C  9           - Free text

This segment is used to provide free text information related to the application error.

**Application error and acknowledgement message Summary Section**

UNT   - M  1           - Message trailer

This segment is a mandatory UN/EDIFACT segment. It must always be the last segment in the message.

UNZ   - M  1           - Interchange trailer

This segment is used to provide the trailer of an interchange.

## 5. Segments Layout

This section describes each segment used in the EANCOM® Application error and acknowledgement message. The original EDIFACT segment layout is listed. The appropriate comments relevant to the EANCOM® subset are indicated.

***Notes:***

1.      The segments are presented in the sequence in which they appear in the message. The segment or segment group tag is followed by the (M)andatory / (C)onditional indicator, the maximum number of occurrences and the segment description.

2.      Reading from left to right, in column one, the data element tags and descriptions are shown, followed by in the second column the EDIFACT status (M or C), the field format, and the picture of the data elements. These first pieces of information constitute the original EDIFACT segment layout.

Following the EDIFACT information, EANCOM® specific information is provided in the third, fourth, and fifth columns. In the third column a status indicator for the use of (C)onditional EDIFACT data elements (see 2.1 through 2.3 below), in the fourth column the restricted indicator (see point 3 on the following page), and in the fifth column notes and code values used for specific data elements in the message.

2.1     (M)andatory data elements in EDIFACT segments retain their status in EANCOM®.

2.2     Additionally, there are five types of status for data elements with a (C)onditional EDIFACT status, whether for simple, component or composite data elements. These are listed below and can be identified when relevant by the following abbreviations:

- REQUIRED            **R**     Indicates that the entity is required and must be sent.

- ADVISED             **A**     Indicates that the entity is advised or recommended.

- DEPENDENT           **D**     Indicates that the entity must be sent in certain conditions, as defined by the relevant explanatory note.

- OPTIONAL            **O**     Indicates that the entity is optional and may be sent at the discretion of the user.

- NOT USED            **N**     Indicates that the entity is not used and should be omitted.

2.3     If a composite is flagged as **N, NOT USED**, all data elements within that composite will have blank status indicators assigned to them.

3.      Status indicators detailed in the fourth column which directly relate to the code values detailed in the fifth **column** may have two values:

- RESTRICTED          *         A data element marked with an asterisk (*) in the fourth column indicates that the listed codes in column five are the only codes available for use with this data element, in this segment, in this message.

- OPEN                          All data elements where coded representation of data is possible and a restricted set of code values is not indicated are open (no asterisk in fourth column). The available codes are listed in the EANCOM® Data Elements and Code Sets Directory. Code values may be given as examples or there may be a note on the format or type of code to be used.

4.      Different colours are used for the code values in the segment details: restricted codes are in red and open codes                                        in                                        blue.

## 5. Segments Layout

Segment number:  1

| **UNA** | - C | 1 - Service string advice | | | | |
|---|---|---|---|---|---|---|

**Function:**

The service string advice shall begin with the upper case characters UNA immediately followed by six characters in the order shown below.  The space character shall not be used in positions 010, 020, 040, 050 or 060.  The same character shall not be used in more than one position of the UNA.

| | | EDIFACT | GS1 | * | Description |
|---|---|---|---|---|---|
| UNA1 | Component data element separator | M an1 | **M** | * | Used as a separator between component data elements contained within a composite data element (default value: ":") |
| UNA2 | Data element separator | M an1 | **M** | * | Used to separate two simple or composite data elements (default value: "+" ) |
| UNA3 | Decimal mark | M an1 | **M** | * | Used to indicate the character used for decimal notation (default value:".") |
| UNA4 | Release character | M an1 | **M** | * | Used to restore any service character to its original specification (value: "?"). |
| UNA5 | Repetition separator | M an1 | **M** | * | Used to indicate the character used for repetition separation (value: " * " ). |
| UNA6 | Segment terminator | M an1 | **M** | * | Used to indicate the end of segment data (default value: " ' ") |

**Segment Notes:**

This segment is used to inform the receiver of the interchange that a set of service string characters which are different to the default characters are being used.

When using the default set of service characters, the UNA segment need not be sent. If it is sent, it must immediately precede the UNB segment and contain the four service string characters (positions UNA1, UNA2, UNA4 and UNA6) selected by the interchange sender.

Regardless of whether or not all of the service string characters are being changed every data element within this segment must be filled, (i.e., if some default values are being used with user defined ones, both the default and user defined values must be specified).

When expressing the service string characters in the UNA segment, it is not necessary to include any element separators.

The use of the UNA segment is required when using a character set other than level A.

UNA:+.?*'

## 5. Segments Layout

Segment number: 2

| UNB | - M | 1 - Interchange header |
|---|---|---|

Function:

To identify an interchange.

Notes:
1. S001/0002, shall be '4' to indicate this version of the syntax.
2. The combination of the values carried in data elements S002, S003 and 0020 shall be used to identify uniquely the interchange, for the purpose of acknowledgement.

| | | EDIFACT | GS1 | * | Description |
|---|---|---|---|---|---|
| S001 | SYNTAX IDENTIFIER | M | **M** | | See Part I chapter 5.2.7 and segment notes. |
| 0001 | Syntax identifier | M a4 | **M** | * | UNOA = UN/ECE level A<br>UNOB = UN/ECE level B<br>UNOC = UN/ECE level C<br>UNOD = UN/ECE level D<br>UNOE = UN/ECE level E<br>UNOF = UN/ECE level F<br>UNOG = UN/ECE level G<br>UNOH = UN/ECE level H<br>UNOI = UN/ECE level I<br>UNOJ = UN/ECE level J<br>UNOK = UN/ECE level K<br>UNOW = UN/ECE level W<br>UNOX = UN/ECE level X<br>UNOY = UN/ECE level Y |
| 0002 | Syntax version number | M an1 | **M** | * | 4 = Version 4 |
| 0080 | Service code list directory version number | C an..6 | **N** | | |
| 0133 | Character encoding, coded | C an..3 | **N** | | |
| S002 | INTERCHANGE SENDER | M | **M** | | |
| 0004 | Interchange sender identification | M an..35 | **M** | | GLN (n13) |
| 0007 | Identification code qualifier | C an..4 | **R** | * | 14 = GS1 |
| 0008 | Interchange sender internal identification | C an..35 | **O** | | |
| 0042 | Interchange sender internal sub-identification | C an..35 | **N** | | |
| S003 | INTERCHANGE RECIPIENT | M | **M** | | |
| 0010 | Interchange recipient identification | M an..35 | **M** | | GLN (n13) |
| 0007 | Identification code qualifier | C an..4 | **R** | * | 14 = GS1 |
| 0014 | Interchange recipient internal identification | C an..35 | **O** | | |
| 0046 | Interchange recipient internal sub-identification | C an..35 | **N** | | |
| S004 | DATE AND TIME OF PREPARATION | M | **M** | | |
| 0017 | Date | M n8 | **M** | | CCYYMMDD |
| 0019 | Time | M n4 | **M** | | HHMM |
| 0020 | Interchange control reference | M an..14 | **M** | | Unique reference identifying the interchange. Created |

## 5. Segments Layout

Segment number:  2

| | | EDIFACT | GS1 | * | Description |
|---|---|---|---|---|---|
| | | | | | by the interchange sender. |
| S005 | RECIPIENT REFERENCE/ PASSWORD DETAILS | C | **O** | | |
| 0022 | Recipient reference/password | M an..14 | **M** | | |
| 0025 | Recipient reference/password qualifier | C an2 | **O** | | |
| 0026 | Application reference | C an..14 | **O** | | Message identification if the interchange contains only one type of message. |
| 0029 | Processing priority code | C a1 | **O** | | A = Highest priority |
| 0031 | Acknowledgement request | C n1 | **O** | | 1 = Requested |
| 0032 | Interchange agreement identifier | C an..35 | **O** | * | EANCOM...... |
| 0035 | Test indicator | C n1 | **O** | | 1 = Interchange is a test |

Segment Notes:

This segment is used to envelope the interchange, as well as to identify both, the party to whom the interchange is sent and the party who has sent the interchange. The principle of the UNB segment is the same as a physical envelope which covers one or more letters or documents, and which details, both the address where delivery is to take place and the address from where the envelope has come.

S001: The character encoding specified in basic code table of ISO/IEC 646 (7-bit coded character set for information interchange) shall be used for the interchange service string advice (if used) and up to and including the composite data element S001 'Syntax identifier' in the interchange header. The character repertoire used for the characters in an interchange shall be identified from the code value of data element 0001 in S001 'Syntax identifier' in the interchange header. The character repertoire identified does not apply to objects and/or encrypted data.

The default encoding technique for a particular repertoire shall be the encoding technique defined by its associated character set specification.

DE 0001: The recommended (default) character set for use in EANCOM® for international exchanges is character set A (UNOA). Should users wish to use character sets other than A, an agreement on which set to use should be reached on a bilateral basis before communications begin.

DE 0004, 0008, 0010 and 0014: Within EANCOM® the use of the Global Location Number (GLN) is recommended for the identification of the interchange sender and recipient.

DE 0008: Identification (e.g. a division) specified by the sender of the interchange, to be included if agreed, by the recipient in response interchanges, to facilitate internal routing.

DE 0014: The address for routing, provided beforehand by the interchange recipient, is used by the interchange sender to inform the recipient of the internal address, within the latter's systems, to which the interchange should be routed. It is recommended that the GLN be used for this purpose.

DE 0007: Identification (e.g. a division) specified by the recipient of the interchange, to be included if agreed, by the sender in response interchanges, to facilitate internal routing.

DE S004: The date and time specified in this composite should be the date and time at which the interchange sender prepared the interchange. This date and time may not necessarily be the same as the date and time of contained messages.

DE 0020: The interchange control reference number is generated by the interchange sender and is used to identify uniquely each interchange. Should the interchange sender wish to re-use interchange control reference numbers, it is recommended that each number be preserved for at least a period of three months before being re-used. In order to guarantee uniqueness, the interchange control reference number should always be linked to the interchange sender's identification (DE 0004).

DE S005: The use of passwords must first be agreed bilaterally by the parties exchanging the interchange.

DE 0026: This data element is used to identify the application, on the interchange recipient's system, to which the interchange is directed. This data element may only be used if the interchange contains only one type of message, (e.g. only invoices). The reference used in this data element is assigned by the interchange sender.

DE 0031: This data element is used to indicate whether an acknowledgement to the interchange is required. The EANCOM® APERAK or CONTRL message should be used to provide acknowledgement of interchange receipt. In addition, the EANCOM® CONTRL message may be used to indicate when an interchange has been rejected

## 5. Segments Layout

Segment number:  2

due to syntax errors.
DE 0032: This data element is used to identify any underlying agreements which control the exchange of data. Within EANCOM® , the identity of such agreements must start with the letters 'EANCOM', the remaining characters within the data element being filled according to bilateral agreements.

UNB+UNOC:4+5412345678908:14+8798765432106:14+20020102:1000+12345555+++++EANCOMREF 52'

## 5. Segments Layout

Segment number:  3

| UNH | - M | 1 - Message header |
|---|---|---|

Function:

To head, identify and specify a message.

Notes:
1. Data element S009/0057 is retained for upward compatibility. The use of S016 and/or S017 is encouraged in preference.
2. The combination of the values carried in data elements 0062 and S009 shall be used to identify uniquely the message within its group (if used) or if not used, within its interchange, for the purpose of acknowledgement.

| | | EDIFACT | GS1 | * | Description |
|---|---|---|---|---|---|
| 0062 | Message reference number | M an..14 | **M** | | Senders unique message reference. Sequence number of messages in the interchange. DE 0062 in UNT will have the same value. Generated by the sender. |
| S009 | MESSAGE IDENTIFIER | M | **M** | | |
| 0065 | Message type | M an..6 | **M** | * | APERAK = Application error and acknowledgement message |
| 0052 | Message version number | M an..3 | **M** | * | D = Draft version/UN/EDIFACT Directory |
| 0054 | Message release number | M an..3 | **M** | * | 01B = Release 2001 - B |
| 0051 | Controlling agency, coded | M an..3 | **M** | * | UN = UN/CEFACT |
| 0057 | Association assigned code | C an..6 | **R** | * | EAN004 = GS1 version control number (GS1 Permanent Code) Indicates that the message is the EANCOM version 004 of the Application Error and Acknowledgement message. |
| 0110 | Code list directory version number | C an..6 | **O** | | This data element can be used to identify the codelist agreed by the interchange partners, e.g. EAN001 = EANCOM 2002 S4 codelist released on 01.12.2002 by GS1. |
| 0113 | Message type sub-function identification | C an..6 | **N** | | |
| 0068 | Common access reference | C an..35 | **N** | | |
| S010 | STATUS OF THE TRANSFER | C | **N** | | |
| 0070 | Sequence of transfers | M n..2 | | | |
| 0073 | First and last transfer | C a1 | | | |
| S016 | MESSAGE SUBSET IDENTIFICATION | C | **N** | | |
| 0115 | Message subset identification | M an..14 | | | |
| 0116 | Message subset version number | C an..3 | | | |
| 0118 | Message subset release number | C an..3 | | | |
| 0051 | Controlling agency, coded | C an..3 | | | |
| S017 | MESSAGE IMPLEMENTATION GUIDELINE IDENTIFICATION | C | **N** | | |
| 0121 | Message implementation guideline identification | M an..14 | | | |
| 0122 | Message implementation | C an..3 | | | |

## 5. Segments Layout

Segment number:  3

|  |  | EDIFACT | GS1 | * | Description |
|---|---|---|---|---|---|
|  | guideline version number |  |  |  |  |
| 0124 | Message implementation guideline release number | C an..3 |  |  |  |
| 0051 | Controlling agency, coded | C an..3 |  |  |  |
| S018 | SCENARIO IDENTIFICATION | C | **N** |  |  |
| 0127 | Scenario identification | M an..14 |  |  |  |
| 0128 | Scenario version number | C an..3 |  |  |  |
| 0130 | Scenario release number | C an..3 |  |  |  |
| 0051 | Controlling agency, coded | C an..3 |  |  |  |

Segment Notes:

This segment is used to head, identify and specify a message.
DE's 0065, 0052, 0054 and 0051: Indicate that the message is a UNSM Application Error and Acknowledgement message based on the D.01B directory under the control of the United Nations.

Example:
UNH+ME000001+APERAK:D:01B:UN:EAN003'

## 5. Segments Layout

Segment number: 4

| **BGM** | - M | 1 - Beginning of message | | | |
|---|---|---|---|---|---|

Function:

To indicate the type and function of a message and to transmit the identifying number.

| | | EDIFACT | GS1 | * | Description |
|---|---|---|---|---|---|
| C002 | DOCUMENT/MESSAGE NAME | C | **R** | | |
| 1001 | Document name code | C an..3 | **R** | * | 305 = Application error and acknowledgement |
| 1131 | Code list identification code | C an..17 | **N** | | |
| 3055 | Code list responsible agency code | C an..3 | **N** | | |
| 1000 | Document name | C an..35 | **N** | | |
| C106 | DOCUMENT/MESSAGE IDENTIFICATION | C | **R** | | |
| 1004 | Document identifier | C an..35 | **R** | | Number of the APERAK message assigned by document sender.<br>This number has been given by the sender of this APERAK message it is NOT the number of the message which is being acknowledged.<br>For global unique identification of documents Global Document Type Identifier (GDTI) is available. |
| 1056 | Version identifier | C an..9 | **N** | | |
| 1060 | Revision identifier | C an..6 | **N** | | |
| 1225 | Message function code | C an..3 | **R** | * | 6 = Confirmation<br>9 = Original<br>23 = Transaction on hold<br>27 = Not accepted |
| 4343 | Response type code | C an..3 | **N** | | |

Segment Notes:

This segment is used to indicate the type and function of a message and to transmit the identifying number.

Example:
BGM+305+100001+6'

## 5. Segments Layout

Segment number:  5

| DTM | - C | 9 - | Date/time/period | | | | |
|---|---|---|---|---|---|---|---|
| **Function:** | | | | | | | |
| To specify date, and/or time, or period. | | | | | | | |
| | | | | EDIFACT | GS1 | * | Description |
| C507 | DATE/TIME/PERIOD | | | M | **M** | | |
| 2005 | Date or time or period function code qualifier | | | M an..3 | **M** | * | 137 = Document/message date/time |
| 2380 | Date or time or period value | | | C an..35 | **R** | | |
| 2379 | Date or time or period format code | | | C an..3 | **R** | | 102 = CCYYMMDD<br>203 = CCYYMMDDHHMM |

Segment Notes:

This segment is used to specify the date of the message.
DE 2005: Identification of the 'Document/message date/time' (code value 137) is mandatory in an EANCOM message.

Example:
DTM+137:200208301200:203'
The Application Error and Acknowledgement message was created at 12 o'clock on the 30th of August 2002.

## 5. Segments Layout

Segment number:  6

| SG1 | - C | 99 - DOC-DTM |
|---|---|---|
| **DOC** | - M | 1 - Document/message details |

Function:

To identify documents and details directly related to it.

| | | EDIFACT | GS1 | * | Description |
|---|---|---|---|---|---|
| C002 | DOCUMENT/MESSAGE NAME | M | **R** | | |
| 1001 | Document name code | C an..3 | **R** | | 220 = Order<br>351 = Despatch advice<br>261 = Self billed credit note<br>380 = Commercial invoice<br>381 = Credit note - goods and services<br>389 = Self-billed invoice |
| 1131 | Code list identification code | C an..17 | **N** | | |
| 3055 | Code list responsible agency code | C an..3 | **O** | | |
| 1000 | Document name | C an..35 | **N** | | |
| C503 | DOCUMENT/MESSAGE DETAILS | C | **R** | | |
| 1004 | Document identifier | C an..35 | **R** | | |
| 1373 | Document status code | C an..3 | **O** | | 1 = Accepted<br>3 = Conditionally accepted<br>8 = Rejected<br>10 = Document currently valid<br>39 = On hold |
| 1366 | Document source description | C an..70 | **N** | | |
| 3453 | Language name code | C an..3 | **N** | | |
| 1056 | Version identifier | C an..9 | **N** | | |
| 1060 | Revision identifier | C an..6 | **N** | | |
| 3153 | Communication medium type code | C an..3 | **N** | | |
| 1220 | Document copies required quantity | C n..2 | **N** | | |
| 1218 | Document originals required quantity | C n..2 | **N** | | |

Segment Notes:

To identify documents and details directly related to it.
Example:
DOC+380+4726354:1'
The referenced document is an invoice with the number 4726354. It has been accepted.
DOC+380+9226354:8'
The referenced document is an invoice with the number 9226354. It has been rejected.

# 5. Segments Layout

Segment number: 7

| **SG1** | - C | 99 - DOC-DTM |
|---|---|---|
| **DTM** | - R | 99 - Date/time/period |

Function:

To specify date, and/or time, or period.

| | | EDIFACT | GS1 | * | Description |
|---|---|---|---|---|---|
| C507 | DATE/TIME/PERIOD | M | **R** | | |
| 2005 | Date or time or period function code qualifier | M an..3 | **R** | * | 137 = Document/message date/time |
| 2380 | Date or time or period value | C an..35 | **R** | | |
| 2379 | Date or time or period format code | C an..3 | **R** | | 102 = CCYYMMDD |

Segment Notes:

To specify date, and/or time, or period.

## 5. Segments Layout

Segment number:  8

| SG2 | - C | 9 - RFF-DTM |
|---|---|---|
| **RFF** | - M | 1 - Reference |

Function:

To specify a reference.

| | | EDIFACT | GS1 | * | Description |
|---|---|---|---|---|---|
| C506 | REFERENCE | M | **M** | | |
| 1153 | Reference code qualifier | M an..3 | **M** | | AAN = Delivery schedule number<br>APQ = Commercial account summary<br>reference number<br>AGG = Dispute number<br>IV = Invoice number<br>ON = Order number (buyer) |
| 1154 | Reference identifier | C an..70 | **R** | | This number is the same number as in the BGM segment (DE 1004) of the message which is being aknowledged. |
| 1156 | Document line identifier | C an..6 | **N** | | |
| 4000 | Reference version identifier | C an..35 | **N** | | |
| 1060 | Revision identifier | C an..6 | **N** | | |

Segment Notes:

This segment is used to specify reference numbers related to the message which is being acknowledged.

Example:
RFF+ON:100001'
The message being acknowledged is an order.

## 5. Segments Layout

Segment number:  9

| | | EDIFACT | GS1 | * | Description |
|---|---|---|---|---|---|
| **SG2** | - C | 9 - RFF-DTM | | | |
| **DTM** | - C | 9 - Date/time/period | | | |

Function:

To specify date, and/or time, or period.

| | | EDIFACT | GS1 | * | Description |
|---|---|---|---|---|---|
| C507 | DATE/TIME/PERIOD | M | **M** | | |
| 2005 | Date or time or period function code qualifier | M an..3 | **M** | * | 171 = Reference date/time |
| 2380 | Date or time or period value | C an..35 | **R** | | The date/time indicated here is the same as the date/time in the DTM segment under BGM used with qualifier 137 of the message which is being acknowledged. |
| 2379 | Date or time or period format code | C an..3 | **R** | | 102 = CCYYMMDD<br>203 = CCYYMMDDHHMM |

Segment Notes:

This segment is used to specify dates or periods relating to the previous RFF segment.

Example:
DTM+171:200208251000:203'

## 5. Segments Layout

Segment number: 10

| **SG3** | - C | 9 - | NAD | | | | |
|---|---|---|---|---|---|---|---|
| **NAD** | - M | 1 - | Name and address | | | | |

Function:

To specify the name/address and their related function, either by C082 only and/or unstructured by C058 or structured by C080 thru 3207.

| | | EDIFACT | GS1 | * | Description |
|---|---|---|---|---|---|
| 3035 | Party function code qualifier | M an..3 | **M** | | BY = Buyer<br>SU = Supplier |
| C082 | PARTY IDENTIFICATION DETAILS | C | **A** | | |
| 3039 | Party identifier | M an..35 | **M** | | For identification of parties it is recommended to use GLN - Format n13. |
| 1131 | Code list identification code | C an..17 | **N** | | |
| 3055 | Code list responsible agency code | C an..3 | **R** | * | 9 = GS1 |
| C058 | NAME AND ADDRESS | C | **O** | | This composite may only be used to fulfill the requirements of directive 2003/58/EC, article 4. |
| 3124 | Name and address description | M an..35 | **M** | | |
| 3124 | Name and address description | C an..35 | **O** | | |
| 3124 | Name and address description | C an..35 | **O** | | |
| 3124 | Name and address description | C an..35 | **O** | | |
| 3124 | Name and address description | C an..35 | **O** | | |
| C080 | PARTY NAME | C | **D** | | |
| 3036 | Party name | M an..35 | **M** | | Party Name in clear text. |
| 3036 | Party name | C an..35 | **O** | | |
| 3036 | Party name | C an..35 | **O** | | |
| 3036 | Party name | C an..35 | **O** | | |
| 3036 | Party name | C an..35 | **O** | | |
| 3045 | Party name format code | C an..3 | **O** | | |
| C059 | STREET | C | **D** | | |
| 3042 | Street and number or post office box identifier | M an..35 | **M** | | Building Name/Number and Street |
| 3042 | Street and number or post office box identifier | C an..35 | **O** | | Name and/or P.O. Box. |
| 3042 | Street and number or post office box identifier | C an..35 | **O** | | |
| 3042 | Street and number or post office box identifier | C an..35 | **O** | | |
| 3164 | City name | C an..35 | **D** | | City/Town name, clear text |
| C819 | COUNTRY SUB-ENTITY DETAILS | C | **D** | | |
| 3229 | Country sub-entity name code | C an..9 | **O** | | |
| 1131 | Code list identification code | C an..17 | **O** | | |
| 3055 | Code list responsible agency code | C an..3 | **O** | | |

## 5. Segments Layout

Segment number:  10

| | | EDIFACT | GS1 | * | Description |
|---|---|---|---|---|---|
| 3228 | Country sub-entity name | C an..70 | **O** | | County/State, clear text. |
| 3251 | Postal identification code | C an..17 | **D** | | Postal Code |
| 3207 | Country name code | C an..3 | **D** | | ISO 3166 two alpha code |

Segment Notes:

This segment is used to identify the parties who exchanged the message which is being acknowlegded.
Example:
NAD+BY+5412345000013::9'
NAD+SU+4012345500004::9'

Dependency Notes:
The following composites and data elements are only used when a coded name and address can not be used.
The affected composites and data elements are as follows:
C080  -  C059  -  3164  -  C819  -  3251  -  3207

# 5. Segments Layout

Segment number:  11

| SG4 | - C | 99999 | - | ERC-FTX-SG5 | | | |
|-----|-----|-------|---|-------------|---|---|---|
| **ERC** | - M | 1 | - | Application error information | | | |

Function:

To identify the type of application error within a message.

| | | EDIFACT | GS1 | * | Description |
|---|---|---------|-----|---|-------------|
| C901 | APPLICATION ERROR DETAIL | M | **M** | | Should it not be possible to provide a user code in this data element and a free form characteristic description is used in data element 9321, then it is recommended that the code value 'ZZZ' be put in data element 1131. |
| 9321 | Application error code | M an..8 | **M** | | |
| 1131 | Code list identification code | C an..17 | **O** | | ZZZ = Mutually defined |
| 3055 | Code list responsible agency code | C an..3 | **D** | | 91 = Assigned by supplier or supplier's agent<br>92 = Assigned by buyer or buyer's agent |

Segment Notes:

This segment is used to identify the type of application error in the previously sent message.

Example:
ERC+NODAT::91'
The receiver did not get any dates in the application.

## 5. Segments Layout

Segment number:  12

<table>
<tr><td colspan="5"><b>SG4</b>    - C   99999 - ERC-FTX-SG5</td></tr>
<tr><td colspan="5"><b>FTX</b>    - C     1 - Free text</td></tr>
<tr><td colspan="5">Function:</td></tr>
<tr><td colspan="5">To provide free form or coded text information.</td></tr>
<tr><td></td><td></td><td>EDIFACT</td><td>GS1</td><td>*</td><td>Description</td></tr>
<tr><td>4451</td><td>Text subject code qualifier</td><td>M an..3</td><td><b>M</b></td><td></td><td>AAO = Error description (free text)</td></tr>
<tr><td>4453</td><td>Free text function code</td><td>C an..3</td><td><b>O</b></td><td></td><td>1 = Text for subsequent use<br>3 = Text for immediate use</td></tr>
<tr><td>C107</td><td>TEXT REFERENCE</td><td>C</td><td><b>D</b></td><td></td><td>This composite is only used when trading partners have agreed to use mutually defined code values.</td></tr>
<tr><td>4441</td><td>Free text value code</td><td>M an..17</td><td><b>M</b></td><td></td><td></td></tr>
<tr><td>1131</td><td>Code list identification code</td><td>C an..17</td><td><b>O</b></td><td></td><td></td></tr>
<tr><td>3055</td><td>Code list responsible agency code</td><td>C an..3</td><td><b>D</b></td><td></td><td>86 = Assigned by party originating the message</td></tr>
<tr><td>C108</td><td>TEXT LITERAL</td><td>C</td><td><b>D</b></td><td></td><td>This composite is only used if coded text can not be used.</td></tr>
<tr><td>4440</td><td>Free text value</td><td>M an..512</td><td><b>M</b></td><td></td><td></td></tr>
<tr><td>4440</td><td>Free text value</td><td>C an..512</td><td><b>O</b></td><td></td><td></td></tr>
<tr><td>4440</td><td>Free text value</td><td>C an..512</td><td><b>O</b></td><td></td><td></td></tr>
<tr><td>4440</td><td>Free text value</td><td>C an..512</td><td><b>O</b></td><td></td><td></td></tr>
<tr><td>4440</td><td>Free text value</td><td>C an..512</td><td><b>O</b></td><td></td><td></td></tr>
<tr><td>3453</td><td>Language name code</td><td>C an..3</td><td><b>D</b></td><td></td><td>This data element is only used when non coded free text has been provided in data element C108.</td></tr>
<tr><td>4447</td><td>Free text format code</td><td>C an..3</td><td><b>N</b></td><td></td><td></td></tr>
<tr><td colspan="6">Segment Notes:<br><br>This segment is used to provide free text information related to the application error.<br><br>Example:<br>FTX+AAO+1+001::ZZZ'</td></tr>
</table>

## 5. Segments Layout

Segment number:  13

| SG4 | - C | 99999 - | ERC-FTX-SG5 |
|---|---|---|---|
| **SG5** | - C | 9 - | RFF-FTX |
| **RFF** | - M | 1 - | Reference |

Function:

To specify a reference.

| | | EDIFACT | GS1 | * | Description |
|---|---|---|---|---|---|
| C506 | REFERENCE | M | **M** | | |
| 1153 | Reference code qualifier | M an..3 | **M** | | AAN = Delivery schedule number<br>AGG = Dispute number<br>APQ = Commercial account summary reference number<br>IV = Invoice number<br>ON = Order number (buyer) |
| 1154 | Reference identifier | C an..70 | **R** | | This number is the same number as in the BGM segment (DE 1004) of the message which is being acknowledged. |
| 1156 | Document line identifier | C an..6 | **O** | | This number is the same number as in the LIN segment (DE 1082) of the message which is being aknowledged. |
| 4000 | Reference version identifier | C an..35 | **N** | | |
| 1060 | Revision identifier | C an..6 | **N** | | |

Segment Notes:

This segment is used to specify reference numbers related to the message which is being acknowledged.

Example:
RFF+ON:652744:23'
The line being acknowlegded is line 23 of the order with number 652744.

## 5. Segments Layout

Segment number: 14

| **SG4** | - C | 99999 | - | ERC-FTX-SG5 |
|---------|-----|-------|---|-------------|
| **SG5** | - C | 9 | - | RFF-FTX |
| **FTX** | - C | 9 | - | Free text |

Function:

To provide free form or coded text information.

| | | EDIFACT | GS1 | * | Description |
|------|--------------------------------|----------|-----|---|-------------|
| 4451 | Text subject code qualifier | M an..3 | **M** | | AAO = Error description (free text) |
| 4453 | Free text function code | C an..3 | **N** | | |
| C107 | TEXT REFERENCE | C | **N** | | |
| 4441 | Free text value code | M an..17 | | | |
| 1131 | Code list identification code | C an..17 | | | |
| 3055 | Code list responsible agency code | C an..3 | | | |
| C108 | TEXT LITERAL | C | **R** | | |
| 4440 | Free text value | M an..512 | **M** | | |
| 4440 | Free text value | C an..512 | **O** | | |
| 4440 | Free text value | C an..512 | **O** | | |
| 4440 | Free text value | C an..512 | **O** | | |
| 4440 | Free text value | C an..512 | **O** | | |
| 3453 | Language name code | C an..3 | **N** | | |
| 4447 | Free text format code | C an..3 | **N** | | |

Segment Notes:

This segment is used to provide free text information related to the application error.

Example:
FTX+AAO+++THE IDENTIFICATION NUMBER IS WRONG'

## 5. Segments Layout

Segment number:  15

| UNT | - M | 1 - Message trailer |
|-----|-----|---------------------|

Function:

To end and check the completeness of a message.

Notes:
1. 0062, the value shall be identical to the value in 0062 in the corresponding UNH segment.

|      |                                 | EDIFACT | GS1 | * | Description |
|------|---------------------------------|---------|-----|---|-------------|
| 0074 | Number of segments in a message | M n..10 | **M** |   | The total number of segments in the message is specified here. |
| 0062 | Message reference number        | M an..14 | **M** |   | The message reference numbered detailed here should equal the one specified in the UNH segment. |

Segment Notes:

This segment is a mandatory UN/EDIFACT segment. It must always be the last segment in the message.

Example:
UNT+11+ME000001'

## 5. Segments Layout

Segment number:  16

| UNZ | - M | 1 - Interchange trailer |
|-----|-----|-------------------------|

Function:

To end and check the completeness of an interchange.

Notes:
1. 0020, the value shall be identical to the value in 0020 in the corresponding UNB segment.

| | | EDIFACT | GS1 | * | Description |
|------|-------------------------------|---------|-----|---|-------------|
| 0036 | Interchange control count | M n..6 | **M** | | Number of messages or functional groups within an interchange. |
| 0020 | Interchange control reference | M an..14 | **M** | | Identical to DE 0020 in UNB segment. |

Segment Notes:

This segment is used to provide the trailer of an interchange.
DE 0036: If functional groups are used, this is the number of functional groups within the interchange. If functional groups are not used, this is the number of messages within the interchange.
UNZ+5+12345555'

**6. Examples**

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**Example 1**

The following is an example of an APERAK message being sent to acknowledge the order number 652. The ORDERS message was sent on the 25th of August. The parties who exchanged the ORDERS message are the buyer with GLN 5412345000013 and the supplier with GLN 4012345500004.

| | |
|---|---|
| UNH+ME00001+APERAK:D:01B:UN:EAN003' | Message header |
| BGM+305+10012+6' | Application Error and Acknowledgement number is 10012. |
| DTM+137:2002808301200:203' | The Application Error and Acknowledgement message was created at 12:00 on the 30th of August 2002. |
| RFF+ON:652' | The message being acknowledged is order number 652. |
| DTM+171+20020825:102' | The message being acknowledged was sent on the 25th of August 2002. |
| NAD+BY+5412345000013::9' | Buyer identified in the ORDERS message. |
| NAD+SU+4012345500004::9' | Supplier identified in the ORDERS message. |
| UNT+8+ME00001' | Total number of segments in the message equals 8. |

---

**Example 2**

The following is an example of an APERAK message being sent to report an error encountered in invoice number 2744. The INVOIC message was sent at 11:00 on the 23rd of August. The parties who exchanged the INVOIC message are the buyer with GLN 5412345000013 and the supplier with GLN 4012345500004.

| | |
|---|---|
| UNH+MD00001+APERAK:D:01B:UN:EAN003' | Message header |
| BGM+305+10015+27' | Application Error and Acknowledgement number is 10015. |
| DTM+137:200208231200:203' | The Application Error and Acknowledgement message was created at 12:00 on the 23rd of August 2002. |
| RFF+IV:2744' | The message being acknowledged is invoice number 2744. |
| DTM+171+200208231100:203' | The message being acknowledged was sent at 11:00 on the 23rd of August 2002. |
| NAD+BY+5412345000013::9' | Buyer identified in the INVOIC message. |
| NAD+SU+4012345500004::9' | Supplier identified in the INVOIC message. |
| ERC+186::92' | The buyer reports a duplicate invoice number using the bilaterally agreed code 186. |
| UNT+9+ME00001' | Total number of segments in the message equals 9. |

Note:

## 6. Examples

The EDI interchange will include the UNB..UNZ segments and, if applicable, the UNG..UNE segments. (See part 1 section 5.7).