



## EDIFICE Message Implementation Guideline

### Service Segments

### **SERSEG Issue EDSS10**

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## **COMPARISON TO PREVIOUS ISSUE**

### **EDSS10 of 1 June 2011 includes the following changes compared to EDSS04:**

- UNB segment, S001, DE 0001 - syntax level UN/ECE level W is recommended. Others are allowed, where there is mutual agreement between trading partners.
- UNB segment, S001, DE 0002 - syntax version level 4.

EDSS04 includes the following changes compared to EDSS03:

- UNB segment, S001, DE 0001 - syntax level UN/ECE level C is recommended. Others are allowed, where there is mutual agreement between trading partners.
- UNB segment, S001, DE 0002 - syntax version level 3.

This change was applied due to the requirement to send special characters such as the @-sign in e-mail addresses.

EDSS03 includes the following changes compared to EDSS02.

- Recast from the 92.1 version of the UN/EDIFACT directory to the D.97A version,
- UNB segment, S001, DE 0001 - syntax levels other than UN/ECE level A are now allowed, where there is mutual agreement between trading partners.

- The format of DE 0057 of the UNH segment has changed to:  
EDXXNN

ED represents EDIFICE.

XX is a two alpha code representing the name of the guideline, e.g. 'IN' for Invoice and 'SB' for Self-billing Invoice. This must be a unique code.

NN is the issue number of the guideline, 01-99. This number continues on from the previously endorsed issue.

- Update of the REFERENCES and EXPLANATORY NOTES section to comply with the EDIFICE Standards for Documentation of Message Implementation Guidelines issue 3,
- Update of examples,
- Documentation adjustments resulting from the use of GEFEG's EdiFix Message Implementation Guidelines documentation tool,
- Correction of typographical errors.

## **EDIFICE FUNCTIONAL DEFINITION**

The service segments are used to indicate beginning and end of messages and interchanges. In addition, they allow identification and specification of these, and provide a means for checking completeness of interchanges and messages.

### **General principles**

The Functional Group segments (UNG & UNE) will NOT BE USED.

An Interchange should contain only one type of message. In exceptional circumstances, different but related message types may be present in one interchange. (e.g. in the UK, the INVOIC and TAXCON will be present in one interchange).

The section control segment (UNS) is not shown in the document. Its usage is defined in the EDIFICE implementation guidelines.

The UN/ECE syntax level W is recommended. Therefore, the Service String Advice (UNA) must be used. It is recommended that the default delimiters and indicators are used.

These are :

|   |               |                                  |
|---|---------------|----------------------------------|
| : | colon         | COMPONENT DATA ELEMENT SEPARATOR |
| + | plus          | DATA ELEMENT SEPARATOR           |
| . | dot           | DECIMAL NOTATION                 |
| ? | question mark | RELEASE INDICATOR                |
| ' | quote         | SEGMENT SEPARATOR                |

## **EXPLANATORY NOTES**

### **General**

The following abbreviations are used within the EDIFICE Implementation message guidelines:

DE = Data Element  
CO = Composite Data Element  
SG = Segment Group

The following codes are used to indicate, in a more detailed and precise way than UN/EDIFACT, the usage of the data concerned in the EDIFICE Message Implementation Guidelines:

| <b><u>UN/EDIFACT</u></b> | <b><u>EDIFICE</u></b> |
|--------------------------|-----------------------|
| M (Mandatory)            | <b>M</b> (Mandatory)  |
| C (Conditional)          | <b>R</b> (Required)   |
| C (Conditional)          | <b>D</b> (Depending)  |
| C (Conditional)          | <b>A</b> (Advised)    |
| C (Conditional)          | <b>O</b> (Optional)   |
| C (Conditional)          | <b>N</b> (Not Used)   |

**Mandatory** = UN/EDIFACT dictates that the Data Element, Composite Data Element, Segment or Segment Group must be present.

**Required** = Indicates that the entity is required and must be sent.

**Depending** = Indicates that the entity must be sent if a particular defined condition or set of conditions exists. The associated conditions must be explained at the appropriate level of detail.

**Advised** = Indicates that the entity is advised or recommended and should be sent if previously agreed between the trading partners.

**Optional** = Indicates that the entity is optional and may be sent if previously agreed between the trading partners.

**Not Used** = Indicates that the entity is not used and should be omitted.

The number of occurrences shown in the EDIFICE Message Diagrams indicates the required or maximum number of occurrences for the entity utilisation.

The EDIFICE usage status and number of occurrences for segments or segment groups will be represented analogue to the representation of data elements e.g.:

R3 The segment or group is required 3 times (fixed number)  
R..3 The segment or group is required up to 3 times (maximum number)

a: alphabetic  
n: numeric  
an: alpha-numeric

The following table indicates the number of integer and decimal digits to be used for numeric data elements when needed:

| <b>Numeric Class</b> | <b>Representation Digits</b> | <b>Integer Digits</b> | <b>Decimals</b> |
|----------------------|------------------------------|-----------------------|-----------------|
|----------------------|------------------------------|-----------------------|-----------------|

|                |       |    |   |
|----------------|-------|----|---|
| Dimensions     | n..18 | 15 | 3 |
| Quantities     | n..15 | 12 | 3 |
| Volumes        | n..18 | 15 | 3 |
| Weights        | n..18 | 15 | 3 |
| Unit Prices    | n..15 | 11 | 4 |
| Amounts        | n..18 | 15 | 3 |
| Currency Rates | n..12 | 6  | 6 |
| Percentages    | n..8  | 3  | 5 |

EDIFICE recommends that where there are significant decimals, these are explicitly stated using a decimal mark in a character position.

Consistent use of the date/time/period format should be adhered to throughout the entire messages. EDIFICE recommends only to use the 'CCYMMDD' or 'CCYMMDDHHMM' format.

## SEGMENT DETAILS

UNA

### UNA SERVICE STRING ADVICE

Function: A segment defining the characters selected for use as delimiters and indicators in the rest of the interchange that follows.

Usage : D1

Notes : The UNA segment is only specified for character sets UNOB and beyond. EDIFICE recommends to use the default delimiters and indicators.

UNA:+.? '

| Ref. | Rep. | Name                             | EDIFICE Utilisation |                        |
|------|------|----------------------------------|---------------------|------------------------|
| an1  | M    | COMPONENT DATA ELEMENT SEPARATOR | M                   | :                      |
| an1  | M    | DATA ELEMENT SEPARATOR           | M                   | +                      |
| an1  | M    | DECIMAL NOTATION                 | M                   | .                      |
| an1  | M    | RELEASE INDICATOR                | M                   | ?                      |
| an1  | M    | Reserved for future use          | M                   | Insert space character |
| an1  | M    | SEGMENT TERMINATOR               | M                   | '                      |

**UNB INTERCHANGE HEADER**

Function: A segment heading, and uniquely identifying the interchange.

Usage : M1

Notes : If the interchange is a test, '1' should be sent in DE 0035, otherwise it is not used.

| Ref.        | Rep. | Name                                  | EDIFICE Utilisation   |
|-------------|------|---------------------------------------|---|
| S001        | M    | SYNTAX IDENTIFIER                     | M   |
| 0001 a4     | M    | Syntax identifier                     | M UNOW = UN/ECE level W<br>EDIFICE recommends this syntax level.<br>Upon mutual agreement, trading partners may use a syntax level other than UN/ECE level W.<br>For UN/ECE levels C and beyond the UNA segment must be sent. EDIFICE recommends to specify the default delimiters and indicators. In case UN/ECE levels A or B are used, the UNA segment must not be sent. |
| 0002 n1     | M    | Syntax version number                 | M 4 = Version 4   |
| S002        | M    | INTERCHANGE SENDER                    | M   |
| 0004 an..35 | M    | Sender identification                 | M   |
| 0007 an..4  | C    | Partner identification code qualifier | A Use UN/EDIFACT code list 0007   |
| 0008 an..14 | C    | Address for reverse routing           | O In the case where the originator of the interchange is a gateway or clearing centre, DE 0008 (Address for reverse routing) can be used to define the originator of the message(s) within the interchange. Multiple addresses for reverse routing can be used with one Sender Address.   |
| S003        | M    | INTERCHANGE RECIPIENT                 | M   |
| 0010 an..35 | M    | Recipient identification              | M   |
| 0007 an..4  | C    | Partner identification code qualifier | A Use UN/EDIFACT code list 0007   |
| 0014 an..14 | C    | Routing address                       | O In case where the recipient of the interchange is a gateway or clearing centre, S003, DE 0014 (Routing address) can be used to define the final recipient of the message(s). Multiple Routing addresses can be used with one Recipient Address.   |
| S004        | M    | DATE/TIME OF PREPARATION              | M   |
| 0017 n6     | M    | Date of preparation                   | M Creation date of interchange: YYMMDD<br>Where the century is required it should be derived from the YY part of the date by the EDI or interfacing business application.   |
| 0019 n4     | M    | Time of preparation                   | M Creation time of interchange: HHMM  |



| Ref. | Rep.   | Name                                       |   | EDIFICE Utilisation  |
|------|--------|--|---|--|
| 0020 | an..14 | M INTERCHANGE CONTROL REFERENCE            | M | <p>Standard procedure:<br/>Sequential numbering per trading partner relationship.<br/>The interchange control reference is a numeric value starting at 1 for the first transmission using a specific Sender Address - Recipient Address combination (as defined above).<br/>The interchange control reference is incremented by 1 for each new transmission using the same Sender Address - Recipient Address combination.</p> <p>Special agreement procedure:<br/>Sequential numbering for multiple trading partner relationships in use between the same business partners.<br/>If two business partners use multiple Trading Partner Relationship combinations between them, they can decide to use one sequential interchange counter for multiple Sender and Recipient Address combinations. The different Sender and Recipient Address combinations should be specified in an interchange agreement.</p> |
| S005 |        | C RECIPIENT'S REFERENCE PASSWORD           | O |  |
| 0022 | an..14 | M Recipient's reference/password           | M |  |
| 0025 | an2    | C Recipient's reference/password qualifier | O |  |
| 0026 | an..14 | C APPLICATION REFERENCE                    | A | <p>The Application Reference should contain the same code as used in the 'Message type identifier' (S009, DE 0065) in the UNH segment.</p> <p>If there is more than one message type per interchange, use the principal one, e.g. in a UK interchange containing the INVOIC and TAXCON messages, INVOIC is used in the Application Reference.</p>  |
| 0029 | a1     | C PROCESSING PRIORITY CODE                 | N |  |
| 0031 | n1     | C ACKNOWLEDGEMENT REQUEST                  | O |  |
| 0032 | an..35 | C COMMUNICATIONS AGREEMENT ID              | O |  |
| 0035 | n1     | C TEST INDICATOR                           | D |  |

**UNH MESSAGE HEADER**

Function: A segment heading, and uniquely identifying the message.

Usage : M1

Notes :

| Ref. | Rep.   | Name  |   | EDIFICE Utilisation  |
|------|--------|---|---|--|
| 0062 | an..14 | M MESSAGE REFERENCE NUMBER                        | M | The message reference number is a numeric counter of messages within the interchange. The first message in the interchange will be numbered 1. The counter is incremented by 1 for each new message (UNH - UNT) within the interchange.  |
| S009 |        | M MESSAGE IDENTIFIER                              | M |  |
| 0065 | an..6  | M Message type identifier                         | M | Where the UN/EDIFACT message exists, the content of this data element must be taken from the UN/EDIFACT message e.g. ORDERS. Where an equivalent UN/EDIFACT message does not exist, the content of this data element must be a unique code and must not conflict with an existing UN/EDIFACT Message type identifier. Please refer to UN/EDIFACT code list 0065 for the full list. |
| 0052 | an..3  | M Message type version number                     | M | Where the UN/EDIFACT message exists, the content of this data element must be taken from the UN/EDIFACT message. Where an equivalent UN/EDIFACT message does not exist, EDIFICE recommends to use the version number of the directory the message is based on e.g. 'D'.  |
| 0054 | an..3  | M Message type release number                     | M | Where the UN/EDIFACT message exists, the content of this data element must be taken from the UN/EDIFACT message. Where an equivalent UN/EDIFACT message does not exist, EDIFICE recommends to use the release number of the directory the message is based on e.g. '97A'.  |
| 0051 | an..2  | M Controlling agency                              | M | Where the UN/EDIFACT message exists, the content of this data element must be taken from the UN/EDIFACT message. Where an equivalent UN/EDIFACT message does not exist, EDIFICE recommends that 'ED' is used.  |
| 0057 | an..6  | C Association assigned code                       | R | EDXXNN<br>ED represents EDIFICE. This is taken from UN/EDIFACT code list 0051.<br>XX is a two alpha code representing the name of the guideline, e.g. 'IN' for Invoice and 'SB' for Self-billing Invoice. This must be a unique code.<br>NN is the issue number of the guideline, 01-99. This number continues on from the previously endorsed issue.                              |
| 0068 | an..35 | C COMMON ACCESS REFERENCE                         | N |  |
| S010 |        | C STATUS OF THE TRANSFER                          | N |  |
| 0070 | n..2   | M Sequence message transfer number                |   |  |
| 0073 | a1     | C First/last sequence message transfer indication |   |  |

**UNT MESSAGE TRAILER**

Function: A segment ending, and providing information for checking the completeness of a message.

Usage : M1

Notes :

| Ref. | Rep.   | Name                              | EDIFICE Utilisation |   |
|------|--------|-----------------------------------|---------------------|---|
| 0074 | n..6   | M NUMBER OF SEGMENTS IN A MESSAGE | M                   | Count of all segments in the message, UNH and UNT included.                         |
| 0062 | an..14 | M MESSAGE REFERENCE NUMBER        | M                   | Must be the same reference number as in DE 0062 of the UNH segment of this message. |

**UNZ INTERCHANGE TRAILER**

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Function: A segment ending, and providing information for checking the completeness of an interchange.

Usage : M1

Notes :

| Ref. | Rep.   | Name                            |   | EDIFICE Utilisation   |
|------|--------|---------------------------------|---|---|
| 0036 | n..6   | M INTERCHANGE CONTROL COUNT     | M | Count of all messages in the interchange.   |
| 0020 | an..14 | M INTERCHANGE CONTROL REFERENCE | M | Must be the same reference number as in DE 0020 of the UNB segment of this interchange. |

## **EXAMPLES**

Example 1 - Where the UN/EDIFACT message exists

UNA:+.? '

UNB+UNOW:4+048945028:1+5490120000010:14+100917:0300+32++ORDERS++++1'  
UNH+1+ORDERS:D:10A:UN:EDPO10'

MESSAGE

UNT+63+1'

UNZ+1+32'

Example 2 - Where an equivalent UN/EDIFACT message does not exist

UNA:+.? '

UNB+UNOW:4+048945028:1+5490120000010:14+100917:0305+33++ATHSTS++++1'  
UNH+1+ATHSTS:D:10A:ED:EDAS10'

MESSAGE

UNT+63+1'

UNZ+1+33'