The European B2B Forum for the Electronics Industry

EDIFICE Message Implementation Guideline

Service Segments

SERSEG Issue EDSS04

Endorsed 17 November 1998

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COMPARISON TO PREVIOUS ISSUE

This release includes the changes that have been made to the issue EDSSO3 of the EDIFICE Utilisation of the UN/EDIFACT Service Segments endorsed by the EDIFICE Plenary on 26 November 1997. The changes are as follows:

- 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.

Changes made in issue EDSS03 compared to the EDIFICE Utilisation of the UN/EDIFACT Service Segments endorsed by the EDIFICE Plenary on 22 June 1993.

- 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 C 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

REFERENCES

Refer to the document : Reference list for the EDIFICE message guidelines – Issue 1

EXPLANATORY NOTES

Refer to the document : Explanatory notes for the EDIFICE message guidelines – Issue 1

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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	UNOC = UN/ECE level C EDIFICE recommends this syntax level. Upon mutual agreement, trading partners may use a syntax level other than UN/ECE level C. 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	3 = Version 3
S002		M	INTERCHANGE SENDER	M	The combination of S002, DE 0004 (Sender identification) and S002, DE 0007 (Partner identification code qualifier) is the unique identifier of the originator of the interchange. This can be an application, gateway or clearing centre. The combination of the 'Sender identification' and the 'Partner identification code qualifier' is called 'The Sender Address'.
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	The combination of S003, DE 0010 (Recipient identification) and S003, DE 0007 (Partner identification code qualifier) is the unique identifier of the recipient of the interchange. This can be an application, gateway or clearing centre. The combination of the 'Recipient identification' and the 'Partner identification code qualifier' is called 'The Recipient Address'.
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 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	Standard procedure: Sequential numbering per trading partner relationship. 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). The interchange control reference is incremented by 1 for each new transmission using the same Sender Address - Recipient Address combination. Special agreement procedure: Sequential numbering for multiple trading partner relationships in use between the same business partners. 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.
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	The Application Reference should contain the same code as used in the 'Message type identifier' (S009, DE 0065) in the UNH segment. 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.
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 ED represents EDIFICE. This is taken from UN/EDIFACT code list 0051. 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.
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

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+UNOC:3+048945028:1+5490120000010:14+970917:0300+32++ORDERS++++1'
UNH+1+ORDERS:D:97A:UN:EDPO04'

MESSAGE

UNT+63+1'
UNZ+1+32'

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

UNA:+.? '

UNB+UNOC:3+048945028:1+5490120000010:14+970917:0305+33++ATHSTS++++1'
UNH+1+ATHSTS:D:97A:ED:EDAS02'

MESSAGE

UNT+63+1'
UNZ+1+33'