UNBUNZ Interchange Service Segments

Introduction

All submissions to the EDCS must be preceded by the UNB service segment and followed by the UNZ service segment. These two segments act as an "electronic envelope" and enable the EDCS to identify the start and end of a UN/EDIFACT interchange, and to check its completeness. The UNB segment enables EDCS to determine if the transmission is destined for CHIEF or not.

Notes

If you need help on the UN/EDIFACT Standard please contact:

HM Revenue & Customs
EDIFACT Helpdesk
Information Management Solutions
4th Floor, South East
Alexander House
21 Victoria Avenue
Southend-on-Sea
Essex SS99 1AA

Tel: 01702 367891
Fax: 01702 367103
Email: edistandards@hmrc.gsi.gov.uk

Summary of status

M Mandatory as per UN/EDIFACT
C Conditional
R Required by HMRC
NR Not required by HMRC

EDIFACT level A character set is given below.

Letters, upper case   A to Z
Numerals   0 to 9
Space character   hexadecimal value X'20'
Full stop   . (period, decimal point)
Comma   ,
Hyphen/minus sign   -
Opening parenthesis   (
Closing parenthesis   )
Oblique stroke (slash)   /
Equals sign   =
Exclamation mark   !
Quotation mark   "
Percentage sign   %
Ampersand   &
Asterisk   *
Semi-colon   ;
Less-than sign   <
Greater-than sign   >

The following characters are reserved for use as control characters within the EDIFACT level A character set, and their use as data should therefore be avoided. If their use is a definite requirement, then put a release character ? (the question mark) immediately before each desired character.

' (Apostrophe)   segment terminator
+ (Plus sign)   segment tag and data element separator
: (Colon)   sub-element separator
? (Question mark)   release character

EDIFACT level B character set is given below (for use with CHIEF Supplementary Declarations only).

Letters, upper case and lower case   A to Z and a to z.
Numerals   0 to 9
Space character   hexadecimal value X'20'
Full stop   . (period, decimal point)
Comma   ,
Hyphen/minus sign   -
Opening parenthesis   (
Closing parenthesis   )
Oblique stroke (slash)   /
Equals sign   =
Exclamation mark   !
Quotation mark   "
Percentage sign   %
Ampersand   &
Asterisk   *
Semi-colon   ;
Less-than sign   <
Greater-than sign   >
Apostrophe   '
Plus sign   +
Colon   :
Question mark   ?

The Information Separator control characters are used as follows.

IS 4   hex value '1C'   segment terminator
IS 3   hex value '1D'   data element separator
IS 1   hex value '1F'   component data element separator

Format of the elements is specified as:

a   upper case alphabetic
an upper case alphanumeric
n   numeric
id alphabetic, numeric, or alphanumeric identifier

Length of the data item is optionally preceded by ".." if the length is variable.

example 1: a1 is alphabetic 1 character
example 2: an..7 is alphanumeric variable 7 (ie 1 to 7 inclusive) characters
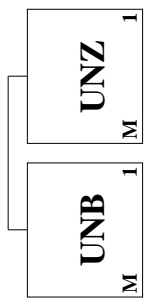example 3: n4 is numeric 4 characters.

All non-CHIEF EDIFACT messages must use the EDIFACT level A character. For
CHIEF Supplementary Declarations only, EDCS accepts level A and B character
sets. The character set used for an interchange is specified in the UNB segment as
the last character of the syntax identifier (0001). For CHIEF Supplementary
Declarations, the response interchange will only be in the same character set as the
incoming interchange where a valid syntax identifier is found.

NB Non EDIFACT characters found in the interchange will cause rejection of some or all of the interchange. Where these characters are found in elements that are input by and returned to the trader they will be replaced by "!" for alpha and alphanumeric fields. Other than this, fields will be returned as received, or truncated if they exceed the required maximum length. Formatting characters between segments (eg white space, tab, carriage return, and optional line feed) will be accepted for level A character set. For level B character set, since separator characters are not visible only continuous data is acceptable.

Details of changes implemented in this version

1. New UN/EDIFACT Standards contact details
2. Amendments to values in d/e 0010
3. Minor typos

Pos. No	Seg. ID	Name	Base Guide	User Status	Max. Use	Group: Repeat	Notes and Comments
010	UNB	Interchange Header	M	M	1		
040	UNZ	Interchange Trailer	M	M	1		

LEVEL

0   UNB (M 1)   UNZ (M 1)

1

2

3

4

5

6

7

8

Segment: UNB Interchange Header

Position: 010

Group:

Level: 0

Usage: Mandatory

Max Use: 1

Purpose: To start, identify and specify an interchange.

Notes: **eg**

CHIEF submissions:

UNB+UNOA:2+CUK98000DAT::CUK000DAT+EDRCHIEF+050731:1017+23++CHI EFLIVE++++0'

non-CHIEF submissions:

UNB+UNOA:2+DANGERPILEYPLC+OTHER+050731:1501++LIVDEC'

Data element summary

Data Element	Component Element	Name	Base Attributes		User Attributes
S001		SYNTAX IDENTIFIER	M		M

Identification of the agency controlling the syntax and indication of syntax level.

	0001	Syntax identifier	M	an4	M

Coded identification of the agency controlling a syntax and syntax level used in an interchange.

As supplied in the incoming message(s).

UNOA UN/ECE level A

UNOB UN/ECE level B

	0002	Syntax version number	M	n1	M

Version number of the syntax identified in the syntax identifier (0001).

2

S002		INTERCHANGE SENDER	M		M

Identification of the sender of the interchange.

	0004	Sender identification	M	an..35	M

Name or coded representation of the sender of a data interchange.

For CHIEF submissions: enter the trader ROLE (an..12) allocated at authorisation (upper case only accepted).

For non-CHIEF submissions: enter VANS/Port Community details, or Data Supplier's name in all other cases.

0007	**Partner identification code qualifier**	C	id..4	C

Qualifier referring to the source of codes for the identifiers of interchanging partners.

For CHIEF submissions: ignored if supplied.

For non-CHIEF submissions: For IBM Information Exchange, otherwise not used.

ZZ	Mutually defined

0008	**Address for reverse routing**	C	an..14	C	an..12

Address specified by the sender of an interchange to be included by the recipient in the response interchanges to facilitate internal routing.

For CHIEF submissions: NB this is mandatory. Enter the trader LOCATION allocated at authorisation (upper case only accepted).

For non-CHIEF submissions: not used.

S003	**INTERCHANGE RECIPIENT**	M		M

Identification of the recipient of the interchange.

0010	**Recipient identification**	M	an..35	M

Name or coded representation of the recipient of a data interchange.

X400 U9986392 For data sent via IBM Information Exchange

5013546106414   For data sent via INS-Tradanet or BT EDI*NET

COASTS	For Container Operational Ant-Smuggling Targeting System data
EDRCHIEF	For CHIEF Submissions
NCTS	For New Computerised Transit System data.
OTHER	For data sent via X.400 or internet

PORT   For data sent via a Port Community [non-CHIEF]

0007   Partner identification code qualifier C   id..4   C

Qualifier referring to the source of codes for the identifiers of interchanging partners.

For CHIEF submissions: not used.

For non-CHIEF submissions: For IBM Information Exchange, otherwise not used.

ZZ   Mutually defined

S004   DATE AND TIME OF PREPARATION   **M**   **M**

Date and time of preparation of the interchange.

0017   Date of preparation   **M   n6**   **M**

Local date when an interchange or a functional group was prepared.

Give date in the format of YYMMDD.

0019   Time of preparation   **M   n4**   **M**

Local time of day when an interchange or a functional group was prepared.

Give time in the format of HHMM.

0020   INTERCHANGE CONTROL REFERENCE   **M   an..14   M**

Unique reference assigned by the sender to an interchange.

A reference provided by the Data Supplier.

For CHIEF submissions: This must be unique within the ROLE (data element 0004 above), or the interchange will be rejected. (Upper case only accepted).

For non-CHIEF submissions: For X.400, one UNB-UNZ loop per e-mail is favoured, but if more than one UNB-UNZ is sent eg in a day, then the reference in this field must be unique to that UNB-UNZ loop. For physical media, this reference should be unique within a file (if more than one UNB-UNZ loop). For VANS/Port Communities, this reference should be unique within a day (if more than one UNB-UNZ submission).

S005	RECIPIENTS REFERENCE PASSWORD	C		NR	

Reference or password as agreed between the communicating partners.

0026	APPLICATION REFERENCE	C	an..14	R	an..9

Identification of the application area assigned by the sender, to which the messages in the interchange relate eg the message identifier if all the messages in the interchange are of the same type.

CHIEFLIVE   Live data to be forwarded to CHIEF IES service.

CHIEFTEST   Test data to be forwarded to CHIEF HMUT service.

LIVDEC   Live data for non-CHIEF submission

TESDEC   Test data for non-CHIEF submission

0029	PROCESSING PRIORITY CODE	C	an1	NR	

Code determined by the sender requesting processing priority for the interchange.

0031	ACKNOWLEDGEMENT REQUEST	C	an1	NR	

Code determined by the sender for acknowledgement of the interchange.

0032	COMMUNICATIONS AGREEMENT ID	C	an..35	NR	

Identification by name or code of the type of agreement under which the interchange takes place.

0035	TEST INDICATOR	C	an1	C	

Indication that the interchange is a test.

For CHIEF submissions: use codes below (NB If there is no test indicator the data is treated as operational).

For non-CHIEF submissions: do not use.

0   Interchange is for operational purpose (with d/e 0026 "CHIEFLIVE"), or testing (with d/e 0026 "CHIEFTEST")

1   Interchange is for training purposes (with d/e 0026 "CHIEFLIVE")

Segment: UNZ Interchange Trailer
Position: 040
Group:
Level: 0
Usage: Mandatory
Max Use: 1
Purpose: To end and check the completeness of an interchange.
Notes: **eg UNS+1+23'**

Data element summary

Data Element	Component Element	Name	Base Attributes		User Attributes
0036		**INTERCHANGE CONTROL COUNT**	**M**	**n..6**	**M**
		Count either of the number of messages or, if used, of the number of functional groups in an interchange.			
0020		**INTERCHANGE CONTROL REFERENCE**	**M**	**an..14**	**M**
		Unique reference assigned by the sender to an interchange.			
		Identical to DE0020 in relating UNB segment.			