EDIFACT INTERCHANGE

This document outlines the various segments and elements within the UNA, UNB and UNZ segments of the EDIFACT standard.

Electronic Data Interchange for Administration, Commerce & Transport (EDIFACT). It coordinates international standardization by working through the UN/ECE (United Nations/Economic Commission for Europe). It provides:

- *An international EDI standard*
- *A set of syntax rules*
- *Data elements, segments and codes*
- *Messages*

In EDIFACT there are two kinds of segments – service segments and generic segments.

Service segments include:

- Envelopes (UNB-UNZ, UNG-UNE, UNH-UNT)
- Delimiter String Advice (UNA)
- Section Separator (UNS)

Generic segments are:

- DOC to identify and specify documents
- MOA for monetary amounts
- DTM for dates and times
- NAD for name and address data

The outermost level of the message envelope structure is the interchange envelope. It is defined by the UNA, UNB and UNZ segments which are the focus of this document.

Created 02 August 2016

UNA:+.? '

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 is being used. When the default set is used, the UNA segment need not be sent. When the UNA segment is sent, it must immediately precede the UNB segment and contain the six service string characters used in the interchange.

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 together with user-defined values then both the default and the user-defined values must be specified.

The UNA segment itself does not have any element separators.

UNA - C 1 - SERVICE STRING ADVICE				
Function : To define the characters selected for use as delimiters and indicators in the rest of the interchange that follows.				
	EDIFACT	EAN	*	Description
UNA1 Component data element separator	M an1	M		The separator between component data elements within a composite data element
UNA2 Data element separator	M an1	M		The separator between two simple or composite data elements
UNA3 Decimal notation	M an1	M		The character used for the decimal point
UNA4 Release character	M an1	M		The character used to restore separator and terminator signs to their normal meaning
UNA5 Reserved for future use	M an1	M		Sent as a space
UNA6 Segment terminator	M an1	M		The character used to indicate the end of a segment

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 is being used.

When the default set is used, the UNA segment need not be sent. When the UNA segment is sent, it must immediately precede the UNB segment and contain the six service string characters used in the interchange.

Regardless of whether or not all of the service string characters are being changed, every data element within this segment must be filled, ie if some default values are being used together with user-defined values then both the default and the user-defined values must be specified.

The UNA segment itself does not have any element separators.

The UNB segment contains:

- Date/Time Stamp (M)
- Interchange Control Numbers (M)
- Password and Application Reference (C)
- Processing Priority Reference (C)
- Acknowledgment Request Indicators (C)
- Communications Agreement ID (C)
- Test Indicators (C)

UNB+UNOC:2+O0013000059DEERE:ZZ:JDMAN+SUPPLIER_RECEIVER_ID:ZZ+160201:1141+25++DELFOR'

The UNB segment is used to envelope the interchange and also to identify the party for whom the interchange is intended 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 the address where delivery is to take place and the address from where the envelope has come.

UNB - M 1 - INTERCHANGE HEADER				
Function : To start, identify and specify an interchange.				
	EDIFACT	EAN	*	Description
S001 SYNTAX IDENTIFIER	M	M		
0001 Syntax identifier	M a4	M	*	Controlling Agency (UNO = UN/ECE), followed by character set level. *Always UNOC in EDItEUR practice.*
0002 Syntax version number	M n1	M	*	3 = EDIFACT syntax version number 3
S002 INTERCHANGE SENDER	M	M		
0004 Sender identification	M an..35	M		EAN location number (n13) is preferred. *Alternatively a US book trade SAN may be used, or another mutually agreed ID.*
0007 Partner Identification code qualifier	C an..4	R		14 = EAN International *31B = US SAN Agency* *91 = assigned by supplier* *92 = assigned by buyer*
0008 Address for reverse routing	C an..14	O		*Not normally used in EDItEUR practice.*
S003 INTERCHANGE RECIPIENT	M	M		
0010 Recipient identification	M an..35	M		EAN location number (n13) is preferred. *Alternatively a US book trade SAN may be used, or another mutually agreed ID.*
0007 Partner Identification code qualifier	C an..4	R		14 = EAN International *31B = US SAN Agency* *91 = assigned by supplier* *92 = assigned by buyer*
0014 Routing address	C an..14	O		*Not normally used in EDItEUR practice.*
S004 DATE / TIME OF PREPARATION	M	M		

0017	Date	M n6	M		YYMMDD
0019	Time	M n4	M		HHMM
0020	**Interchange control reference**	M an..14	M		Uniquely identifying the interchange. Created by the interchange sender.
S005	**RECIPIENT'S REFERENCE PASSWORD**	C	O		*Not normally used in EDItEUR practice.*
0022	Recipient's reference/password	M an..14	M		*Not normally used in EDItEUR practice.*
0025	Recipient's reference/password qualifier	C an2	O		*Not normally used in EDItEUR practice.*

UNB - M	1 - INTERCHANGE HEADER				
		EDIFACT	EAN	*	Description
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 *Not normally used in EDItEUR practice.*
0031	**Acknowledgement request**	C n1	O		*Not normally used in EDItEUR practice.*
0032	**Communications agreement ID**	C an..35	O	*	EANCOM..... *Not normally used in EDItEUR practice.*
0035	**Test indicator**	C n1	O		1 = Interchange is a test

UNZ+1+25'

UNZ - M	1 - INTERCHANGE TRAILER				
Function :	To end and check the completeness of an interchange.				
		EDIFACT	EAN	*	Description
0036	**Interchange control count**	M n..6	M		Number of messages or functional groups within the interchange.
0020	**Interchange control reference**	M an..14	M		Identical to DE 0020 in UNB.

Segment notes

This segment is used to end 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.

The UNZ segment includes:

- Interchange Control Numbers (M)
- Counts of Messages or Groups in the Interchange (M)