# Message Implementation Guideline



# Syntax & Service Report CONTRL

(Based on EANCOM 2002 Guideline using UN / EDIFACT Directory D.01B)

Version 1.0

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# **Document Change Control**

<b>Document Version</b>	Released	By SPS Commerce	Changes
V1.0	December 2021	Asad Enait	Created Document

# Purpose of this Implementation Guide

The purpose of this guide is to provide Vendors with the necessary information to enable the implementation of Syntax and Service Report (CONTRL) messages with Pet Circle.

## Who should use this Guide

This guide is intended for use by Pet Circle vendors to prepare for the implementation of Electronic Data Interchange (EDI) and to assist with applications integration, thereby ensuring successful electronic trading.

# **EDIFACT Specifications**

# 1 UN/EDIFACT Specifications

## 1.1 Definition of UN/EDIFACT

<u>UN/EDIFACT</u>: United Nations rules for Electronic Data Interchange for Administration, Commerce and Transport. They comprise a set of internationally agreed standards, directories and guidelines for the electronic interchange of structured data, and in particular that related to trade in goods and services, between independent computerized information systems - EDI systems.

## 1.2 UN/EDIFACT Syntax

The UN/EDIFACT syntax rules set the standards for structuring data into segments, segments into messages, and messages into an interchange.

## 1.2.1 Structure of an Interchange

An interchange may consist of the following segments:

	Segment ID	Segment Name	Status
	UNA	Service String Advice	Conditional
	UNB	Interchange Header	Mandatory
	UNG	Functional Group Header	Conditional
	UNH	Message Header	Mandatory
		User Data Segments	
	UNT	Message Trailer	Mandatory
	UNE	Functional Group Trailer	Conditional
<u> </u>	UNZ	Interchange Trailer	Mandatory

Segments starting with "UN" are called service segments. They constitute the envelope or the "packing" of the EDIFACT messages. User data segments contain the information itself, in a format specific to each message type.

### 1.2.2 Structure of a Message

Each data segment has a specific place within the sequence of segments in the message. They may occur in any of the following three sections of the message:

- Heading section A segment occurring in this section relates to the entire message.
- Detail section A segment occurring in this section relates to the detail information only.
- **Summary section** Only segments containing totals or control information may occur in the summary section, e.g. invoice total amount, number of lines in a purchase order, etc.

The same segment type may occur in more than one of the message sections, e.g. in the header and in the detail section, and/or more than once in the same section.

Some segments may be repeated a certain number of times at their specific location in the message. The status, Mandatory or Conditional, and the maximum number of repetitions of segment types are indicated in the message structure.

Within a message, specific groups of functionally related segments may be repeated; these groups are referred to as "segment groups". The maximum number of repetitions of a particular segment group at a specific location is included in the message definition.

A segment group may be nested within other segment groups, provided that the inner segment group terminates before any outer segment group terminates.

## 1.2.3 Segment Structure

A segment consists of:

- A segment tag: identifies the segment type
- Data element separators
- Simple, composite, or component data elements
- A segment terminator

Data elements can be defined as having a fixed or variable length.

A composite data element contains two or more component data elements.

A component data element is a simple data element used in a composite data element.

A data element can be qualified by another data element, the value of which is expressed as a code that gives specific meaning to the data. The data value of a qualifier is a code taken from an agreed set of code values.

# 1.2.4 Separators

In EANCOM four service characters (extracted from UNOA) have a special meaning and act as the default separators for EANCOM;

	ASCII	HEX	_
Apostrophe		27	Segment terminator
Decimal Point		2E	Decimal Point
Plus sign	+	2B	Segment tag and data element separator
Colon	:	3A	Component data element separator
Question mark	?	3F	Release character; immediately preceding one of the service characters, it restores their normal meaning. E.g. 10?+10=20 means 10+10=20. Question mark is represented by ??

## 1.3 UN/EDIFACT Documentation Conventions

#### 1.3.1 Format and Picture of Data Elements

The following conventions apply in the present documentation:

Α	alphabetic characters
N	numeric characters
An	alpha-numeric characters
a3	3 alphabetic characters, fixed length
n3	3 numeric characters, fixed length
an3	3 alpha-numeric characters, fixed lengtl
a3	up to 3 alphabetic characters
n3	up to 3 numeric characters
an3	up to 3 alpha-numeric characters

The format and picture of the data elements that will be used by Pet Circle in the following EDI documents comply with the UN/EDIFACT Standards.

#### 1.3.2 Status indicators

There are five types of status used in the following pages, whether for simple, component or composite data elements. They are listed below and can be identified when relevant by the abbreviations.

М	Specified within the Standards as Mandatory, used as a trigger element.
Must Use	Required by Pet Circlefor specific implementation or business rules
D	Dependent on a mutual agreement between the sender and receiver of the message, governed by Business rules and / or a special arrangement, i.e. Primary Freight, etc.
0	Data that can be omitted based on an agreement between the sender and receiver.
Not Used	Segment/data elements defined as optional by standard specification and are not required for this Implementation. Data elements or composite elements not used preceding those indicated otherwise are shown for additional clarity. Unused trailing elements will not be shown in this document.

### 1.3.3 Interchange Structure

The interchange structure in an EDIFACT transmission is organized in several grouping levels. The service segments are the envelope of the groups.

The first service segment possible in an interchange is the 'UNA' segment which is used to define the separators being used in the interchange. The second service segment, 'UNB', indicates the beginning of the interchange. The next one, 'UNG', indicates the beginning of a group of messages of the same type, for example invoices. The last service segment, 'UNH', indicates the beginning of a given message. To each beginning service segment corresponds an ending service segment (note, UNA is not a beginning segment).

Service string advice: UNA

Interchange envelope: UNB .... UNZ

Group envelope: UNG .... UNE

Message envelope: UNH .... UNT

Segment UNA is dependent on the character set being used. Pet Circle interchanges <u>will include</u> the UNA segment, as the UN/EDIFACT character set (C) will be used.

Segments UNG..UNE are Conditional/Optional. These segments will not be sent as standard in this MIG.

## 1.3.4 Interchange Control Structure (Envelope)

#### Introduction:

The Service String Advice, UNA, and the service segments UNB to UNZ shall appear in the below stated order in an interchange. There may be several functional groups or messages within an interchange and several messages in a functional group. A message consists of segments.

Pos.	Seg.		Base	User	Group	Notes and
No.	ID	Name	Status	Status	Max.Use	Repeat Comments
0000	UNA	Service String Advice	0	0	1	
0010	UNB	Interchange Header	М	М	1	
0020	UNH	Message Header	М	М	1	
0030	UNT	Message Trailer	М	М	1	
0040	UNZ	Interchange Trailer	М	М	1	

# **CONTRL Syntax and Control Message**

#### Introduction:

A Syntax and Service Report (CONTRL) message is a message syntactically acknowledging a received interchange.

#### Notes:

This section describes how the CONTRL (Syntax and Service Report) message is to be used in trading electronically with Pet Circle.

An automated Syntax and Control Message (CONTRL) at interchange level is expected for all B2B documents exchanged between Pet Circle and Vendors.

Only acknowledgment of receipt of an interchange for all messages is required. Any errors found in any message must be communicated promptly with personnel responsible for the transaction.

The following message flow illustrates the relevance of the CONTRL message to the messages exchanged between Pet Circle and their Vendors:

- 1) Pet Circle to Vendor: ORDERS (Purchase Order)
- 2) Vendor to Pet Circle: CONTRL
- 3) Vendor to Pet Circle: ORDRSP (Purchase Order Acknowledgment)
- 4) Pet Circle to Vendor: CONTRL
- 5) Vendor to Pet Circle: DESADV (Despatch Advice Message)
- 6) Pet Circle to Vendor: CONTRL
- 7) Vendor to Pet Circle: INVOIC (Invoice Message)
- 8) Pet Circle to Vendor: CONTRL

All messages will be exchanged via the following interchange (mailbox) addresses for Pet Circle:

Production EDI Identifier 9377779384084

Testing & Certification EDI Identifier TST1PETCIRCLE

Example: Control message from Pet Circle to Vendor:

The example below illustrates an acknowledgement to be returned to the vendor from Pet Circle production EDI identifier, indicating that Pet Circle has received interchange 72. The acknowledgment does not imply that the message is accepted without errors, just an indicator of the interchange received.

UNA:+.? '

Μ

UNB+UNOC:3+TST1PETCIRCLE:ZZZ+VENDOR\_GLN:14+180713:1030+99101'

UNH+0001+CONTRL:D:3:UN:EAN004'

UCI+72+VENDOR\_GLN:14 TST1PETCIRCLE:ZZZ+8'

UNT+3+0001' UNZ+1+99101'

#### **Heading Section:**

	Pos. <u>No.</u>	Seg. <u>ID</u>	<u>Name</u>	Req. <u>Des.</u>	Max.Use	Group Notes and Repeat Comments
1		UNA	Service String Advice	М	1	

M	0005	UNB	Interchange Header	M	1
M	0010	UNH	Message Header	M	1

#### **Detail Section:**

	Pos. <u>No.</u>	Seg. <u>ID</u>	<u>Name</u>	Req. <u>Des.</u>	Max.Use	Group Notes and Repeat Comments
М	002	UCI	Interchange Response	M	1	

## **Summary Section:**

	Pos. <u>No.</u>	Seg. <u>ID</u>	<u>Name</u>	Req. <u>Des.</u>	Max.Use	Group Notes and Repeat Comments
M	2400	UNT	Message Trailer	М	1	
M	2420	UNZ	Interchange Trailer	M	1	

Segment: UNA Service String Advice

Position:

Group: Level: 0

Usage: Mandatory

Max Use:

Purpose: To define the characters selected for use as delimiters and indicators in the

rest of the interchange that follows. The specifications in the Service string advice take precedence over the specifications for delimiter etc. in UNB segment. When transmitted, the Service string advice must appear immediately before the Interchange Header (UNB) segment and begin with the upper case characters UNA immediately followed by the six characters selected by the sender to indicate, in the following sequence: UNA:+.?

Notes: Example:

UNA:+.? '

#### **Data Element Summary**

Data Component Element Element Name

-				
Δ	+++	rıb	<b>11 11</b>	tes
$\overline{}$		11	u	LCO

М	0010	COMPONENT DATA ELEMENT SEPARATOR Composite element delimiter : Colon	M	an1
M	0020	DATA ELEMENT SEPARATOR  Data element delimiter  + Plus sign	M	an1
M	0030	DECIMAL NOTATION  The character transferred in this position shall be ign Retained to maintain upward compatibility with earlie syntax.  Full stop / Period		
M	0040	RELEASE INDICATOR  Release indicator is used to signify that the following the characters used as composite, data or segment or release its usage convention for that instance.  ? Question mark		
M	0050	RESERVED FOR FUTURE USE Not used. White space (blank)	M	an1
M	0060	SEGMENT TERMINATOR Used to delimit the end of the current segment and so	<b>M</b> tart a new s	an1 segment.

' Apostrophe

Segment: UNB Interchange Header

Position: 0005

Group: Level: 0

Usage: Mandatory

Max Use:

Purpose: To start, identify and specify an interchange

Dependency Notes: Semantic Notes:

Comments: Notes:

All messages implemented based on EANCOM 2002 will use syntax level C, version

3 as indicated in DE S001.0001 and DE S001.0002 as UNOC:3.

Dependency notes:

Note that the following elements will not be included in the UNB segment for the

CONTRL message:

1) DE0031: Acknowledgement request

Example:

UNB+UNOC:3+9377779384084:14+VENDOR\_GLN:14+180713:1030+1001' UNB+UNOC:3+TST1PETCIRCLE:ZZZ+VENDOR\_GLN:14+180713:1030+81'

#### **Data Element Summary**

Data Component <u>Element</u> <u>Element</u> <u>Name</u>

Attributes
M S001 SYNTAX IDENTIFIER M 1

Identification of the agency controlling the syntax and indication of syntax

level.

M 0001 Syntax identifier M a4

Coded identification of the agency controlling a syntax and syntax level used

in an interchange.

UNOC UN/ECE level C

As defined in ISO/IEC 8859-1: Information technology -

Part 1: Latin alphabet No. 1.

M 0002 Syntax version number M n1

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

3 Version 3

ISO 9735 Amendment 1:1992.

M S002 INTERCHANGE SENDER M 1

Identification of the sender of the interchange.

M 0004 Sender identification M an..35

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

The identifier / GLN of the sending party:

Pet Circle if CONTRL related to ORDRSP, DESADV or INVOIC

Vendor if CONTRL related to ORDERS

Pet Circle will use the following addresses:

Production EDI Identifier 9377779384084

Testing & Certification EDI Identifier TST1PETCIRCLE

M 0007 Partner identification code qualifier C an..4

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

partners.

			14	EAN (European Article Numbering	Accocia	tion)
			14	EAN (European Article Numbering Association) Partner identification code assigned by EAN		
				Pet Circle code qualifier used for Production		
			ZZZ	Mutually defined		
				Pet Circle code qualifier used for T		
Not Used		8000	Address for rev	•	С	an14
				d by the sender of an interchange to lesponse interchanges to facilitate inte		
M	S003		INTERCHANGE	RECIPIENT	<b>M</b>	1 1
				he recipient of the interchange.		
М		0010	Recipient identi	M an35		
				representation of the recipient of a da	ta interci	nange.
				LN of the receiving party: ITRL related to ORDERS		
			Vendor if CONTRL related to ORDRSP, DESADV or INVOIC			
М		0007		cation code qualifier	С	an4
			partners.	g to the source of codes for the identif	fiers of ir	nterchanging
			14	EAN (European Article Numbering Partner identification code assigne		•
			ZZZ	Mutually defined	,	
				Mutually defined between trading p	artners.	
Not Used		0014	Routing address	s	С	an14
				d by the recipient of an interchange to I by the recipient for routing of receive		
M	S004		his organization.  DATE AND TIME	E OF PREPARATION	M	1
			Date and time of preparation of the interchange.			
			Date and time of	preparation of the interchange.		
M		0017	Date of preparat		M	n6
М		0017	Date of preparate Local date when	tion an interchange or a functional group	was pre	pared.
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M		0017	Date of preparate Local date when Date in YYMMDI	tion an interchange or a functional group D format, i.e. March 14th 2018 is pres tion	was presented as	pared. s 180314 <b>n4</b>
			Date of preparate Local date when Date in YYMMDE Time of prepara Local time of day	tion an interchange or a functional group D format, i.e. March 14th 2018 is pres tion when an interchange or a functional	was presented as <b>M</b> group w	pared. s 180314 <b>n4</b> as prepared.
M	0020		Date of preparate Local date when Date in YYMMDE Time of prepara Local time of day Time in 24 hour-order.	tion an interchange or a functional group D format, i.e. March 14th 2018 is presention when an interchange or a functional clock format, i.e. 3:30 PM is presente	was presented as <b>M</b> group will do as 153	pared. s 180314 n4 as prepared.
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M	0020 S005		Date of preparate Local date when Date in YYMMDE Time of preparate Local time of day Time in 24 hour-outline Interchange Unique reference This data element implementations, RECIPIENTS RE	an interchange or a functional group D format, i.e. March 14th 2018 is presention when an interchange or a functional clock format, i.e. 3:30 PM is presente CONTROL REFERENCE e assigned by the sender to an interchent is specified as alphanumeric at months, only numbers are accepted as interce efference PASSWORD	was presented as  M group w d as 153  M nange.  and, for change c	n4 as prepared.  1 an14 all Pet Circle ontrol.
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Segment: UNH Message Header

Position: 0010

Group: Level: 0

Usage: Mandatory

Max Use:

Purpose: A service segment starting and uniquely identifying a message. The

message type code for the Purchase order message is ORDERS.

Dependency Notes: Semantic Notes: Comments:

Notes: Example:

UNH+001+CONTRL:D:3:UN:EAN004'

#### **Data Element Summary**

	Data (	Componer		int Summary			
	Element	Element					
Attributes	Licinom	Licinone	<u>ranic</u>				
M	0062		MESSAGE REF	ERENCE NUMBER	M	1 8	an14
			Unique message reference assigned by the sender.				
			Sequence number of the message in the interchange. DE 0062 in the				
			UNH segment will be exactly the same as in the UNT segment.				
М	S009		MESSAGE IDENTIFIER			1	
			Identification of the type, version etc. of the message being				-
М		0065	Message type identifier			6	an6
			Code identifying a type of message and assigned by its of			olling	
			agency.	Control management			
		0050	CONTRL	Control message	М		0
М		0052	Message type version number			•	an3
				of a message type.			
			D	Draft version/UN/EDIFACT Directory	/ M		
M		0054	Message type release number			-	an3
			Release number within the current message type version number (0052).				
			3	Syntax version 3 adopted from the J Working Group	oint S	yntax	
M		0051	Controlling age	ncy	M	•	an2
			Code identifying the agency controlling the specification, maintenance			nce	
			and publication o UN	f the message type. UN/CEFACT			
				United Nations Centre for Trade Fac	ilitatio	n and	
				Electronic Business (UN/CEFACT).			
Must Use 0057		Association ass	igned code	С	;	an6	
			Code, assigned by the association responsible for the design and maintenance of the message type concerned, which further identifies the			s the	
			message.				
			EAN004	EAN Version Control Number			
Not Used	0068			SS REFERENCE	С	- '	an35
			Reference serving as a key to relate all subsequent transfers of data to				a to
Not Used	S010		the same busines		С	1	
1401 0260	3010		STATUS OF THE	LINANGER	C	- 1	

the same topic.

Statement that the message is one in a sequence of transfers relating to

Segment: UCI Interchange Response

Position: 002

Group: Level: 0

**Usage:** Mandatory

Max Use:

Purpose: To identify the subject interchange, to indicate acknowledgement or rejection

(action taken) of the UNA, UNB and UNZ segments and to identify any error related to these segments. Depending on the action code it may also indicate the action taken on the functional groups and messages within that

interchange.

Dependency Notes: Semantic Notes:

Comments:

**Notes:** This segment is used to identify the interchange being acknowledged.

Only qualifier value 8 (interchange received) is used for DE 0083 to acknowledge

the receipt of the original message to the sender.

Example:

Interchange number 72 from the sender identified as VENDOR\_GLN to the receiver

identified by 9377779382547 has been received.

UCI+72+VENDOR GLN:14+TST1Pet Circle:ZZZ+8'

#### **Data Element Summary**

	Data (	Componer		•			
	<u>Element</u>	<u>Element</u>	<u>Name</u>				
Attributes M	0020		INTERCHANGE (	CONTROL REFERENCE	М	an14	
			Unique reference	assigned by the sender to an inter	rchange.		
			Name of a docum	· ·	J		
М	S002		INTERCHANGE S	SENDER	М		
			Identification of the				
M		0004	Sender identification			an35	
			Name or coded representation of the sender of a data interchan				
			Interchange address ID of the sender may be an EAN Global Location				
			Number (GLN) or other mutually agreed address.				
Must Use		0007	Partner identifica	tion code qualifier	С	an4	
			Qualifier referring to the source of codes for the identifiers of interchanging				
			partners.		! · · · · · · · · · ·	:-4:)	
			14	EAN (International Article Number	ering Assoc	iation)	
	0000		ZZZ	Mutually defined			
M	S003		INTERCHANGE F		M		
			Identification of the recipient of the interchange.		М		
M		0010	Recipient identification			an35	
			Name or coded representation of the recipient of a data interchange.				
			Interchange address ID of the receiver may be an EAN Global Loca Number (GLN) or other mutually agreed address.				
Must Use		0007	Partner identifica	tion code qualifier	С	an4	
			Qualifier referring to the source of codes for the identifiers of intercha				
			partners.				
			14	EAN (International Article Number	ering Assoc	iation)	
	0000		ZZZ	Mutually defined		_	
M	0083		ACTION, CODED		M	an3	
			In a CONTRL message from / to Pet Circle, code 8 will be used.				

Interchange received

Segment: UNT Message Trailer

Position: 2400

Group: Level: 0

**Usage:** Mandatory

Max Use:

**Purpose:** A service segment ending a message, giving the total number of segments in

the message (including the UNH & UNT) and the control reference number of

the message.

Dependency Notes: Semantic Notes:

Comments: Notes:

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

segment in the message.

Example:

There are 3 segments within the UNH-UNT (0001) loop inclusively.

UNT+3+0001'

**Data Element Summary** 

Data Component

<u>Element</u> <u>Element</u> <u>Name</u> Attributes

M 0074 NUMBER OF SEGMENTS IN A MESSAGE M 1 n..6

Control count of number of segments in a message.

M 0062 MESSAGE REFERENCE NUMBER M 1 an..14

Unique message reference assigned by the sender.

Sequence number of the message in the interchange. DE 0062 in the UNT

segment will be exactly the same as in the UNH segment.

Segment: UNZ Interchange Trailer

Position: 2420

Group: Level: 0

**Usage:** Mandatory

Max Use:

**Purpose:** To end and check the completeness of an interchange

Dependency Notes: Semantic Notes:

Comments: Notes:

The UNZ segment marks the end of the interchange

Example:

UNZ+1+1001'

**Data Element Summary** 

Data Component

<u>Element</u> <u>Element</u> <u>Name</u>

M 0036 INTERCHANGE CONTROL COUNT

M 1 n..6

Count either of the number of messages or, if used, of the number of

functional groups in an interchange.

Total count of UNH-UNT segment loop repeats.

M 0020 INTERCHANGE CONTROL REFERENCE

M 1 an..14

Unique reference assigned by the sender to an interchange.

The value presented here must match with the value presented in DE

0020 in segment UNB.