Message Implementation Guideline

Despatch Advice Message

DESADV

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

Version 1.2

May 2019

Document Change Control

Document Version	Released	By SPS Commerce	Changes
V1.0	6 March 2019	Mimoza Piruze	Created Document
V1.1	10 April 2019	Mimoza Piruze	Added Segment ALI
V1.2	21 May 2019	Mimoza Piruze	SG 11 Segment MEA DE C502.6313 = AAA ('Unit net weight') is required for Random Weight Product SG 17 Segment QTY DE C186.6411 ('Measurement unit code') changed requirement from 'Dependant' to 'Optional'.

Purpose of this Implementation Guide

The purpose of this guide is to provide suppliers with the necessary information to enable the implementation of sending Despatch Advice messages to Drakes Supermarkets (Drakes).

Who should use this Guide

This guide is intended for use by Drakes Supermarkets suppliers 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

UN/EDIFACT: 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
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 <u>entire message</u>.
- **Detail section** - A segment occurring in this section relates to the detail information only.
- **Summary section** - Only segments containing <u>totals or control information</u> 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:

A	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 length
a..3	up to 3 alphabetic characters
n..3	up to 3 numeric characters
an..3	up to 3 alpha-numeric characters

The format and picture of the data elements that will be used by Drakes Supermarkets 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.

M	Specified within the Standards as Mandatory, used as a trigger element.
Must Use	Required by Drakes Supermarkets for 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.
O	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. Drakes Supermarkets interchanges will include 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. No.	Seg. ID	Name	Base Status	User Status	Group Max.Use	Notes and Repeat Comments
0000	UNA	Service String Advice	M	M	1	
0010	UNB	Interchange Header	M	M	1	
0020	UNH	Message Header	M	M	1	
0030	UNT	Message Trailer	M	M	1	
0040	UNZ	Interchange Trailer	M	M	1	

Business Rules for a Despatch Advice Message

This section describes how the Despatch Advice (DESADV) messages are to be used in trading electronically with Drakes Supermarkets.

As confirmation of shipment content and information for visibility and receiving automation, suppliers are required to provide a DESADV message for all electronically created orders. One DESADV must be sent per Purchase Order in a shipment. If multiple orders are included in a physical shipment, one DESADV must be sent for each Purchase Order, with the Consignment note number repeating.

- A Despatch Advice only relates to one Purchase Order
- A Despatch Advice can only have one Invoice
- A Despatch Advice can only relate to one Delivery Truck
- A Delivery Truck can have one of more Despatch Advice messages

Suppliers are expected to pack, label and transmit DESADV message representing the content of the shipment, prior to the delivery of goods at Drakes' DC/Warehouse. Drakes will use the DESADV data to prepare efficiently for the reception of the goods. This will allow Drakes to:

- know when the items have been despatched;
- have the precise details of the consignment;
- enable the control between ordered and despatched goods.

In the Despatch Advice message, each unit delivered (pallet) is uniquely identified and the products contained within are described. When the goods are received, the physical shipment and the electronic message are cross-checked. Discrepancies are immediately identified. A standard GS1 Serial Shipping Container Code structure is recommended to identify the units.

DESADV Document Structure
This message implementation guide enables a hierarchical description of the shipment, starting with the highest level (shipment) and ending with the lowest level (items).

The shipment model supported is:
- SOTI (Shipment, Order, Tare/Pallet, Item). In this format, the supplier indicated the Despatch Advice message contains the SSCC code (GS1 Shipping label) at Pallet level.

GS1 Label Requirements – Drakes Supermarkets will be automating the receiving process within their facilities through the scanning of the GS1-128 Barcode within the Shipping Label against the Despatch Advice. Suppliers are required to provide shipping label on pallets within the shipment. Label placement must follow Drakes Supermarkets compliance requirements and the SSCC carton ID represented in the GS1-UCC128 barcode number must be correctly provided in the suppliers' Despatch Advice message.

Additions
Suppliers must not add additional line items that were not in the original Purchase Order.

No Substitution in a Despatch Advice
Supplilers must not substitute for items ordered.

DESADV Despatch Advice Message

Introduction:

A message specifying details for goods despatched or ready for despatch under agreed conditions.
The United Nations Despatch Advice Message serves both as a specification for Delivery Despatch Advice and also as a Returns Despatch Advice message.   Throughout this document, the reference to 'Despatch Advice' may be interpreted as conveying the wider meaning of 'Delivery Despatch Advice/Returns Despatch Advice'.

Notes:

This Message Implementation Guide (MIG) is based on the EANCOM® 2002 Australian Retail Industry Implementation Guidelines for the Invoice Message derived from the international UN/EDIFACT directory D.01B.

Dependency Notes:

1) All Despatch Advice messages received from vendors will be acknowledged with a CONTRL (Syntax and Service Report message) to confirm the receipt of the Interchange.

Heading Section:

	Pos. No.	Seg. ID	Name	Req. Des.	Max.Use	Group Repeat	Notes and Comments
M		UNA	Service String Advice	M	1		
M	0005	UNB	Interchange Header	M	1		
M	0010	UNH	Message Header	M	1		
M	0020	BGM	Beginning of Message	M	1		
Must Use	0030	DTM	Date/Time/Period	C	3		
D	0040	ALI	Additional Information	C	1		
Must Use	0080		Segment Group 1: RFF	C		2	
M	0090	RFF	Reference	M	1		
Must Use	0110		Segment Group 2: NAD	C		3	
M	0120	NAD	Name and Address	M	1		

Detail Section:

	Pos. No.	Seg. ID	Name	Req. Des.	Max.Use	Group Repeat	Notes and Comments
Must Use	0390		Segment Group 10: CPS-SG11-SG17	C		9999	
M	0400	CPS	Consignment Packing Sequence	M	1		
Must Use	0430		Segment Group 11: PAC-MEA-SG13	C		2	
M	0440	PAC	Package	M	1		
D	0450	MEA	Measurements	C	5		
D	0500		Segment Group 13: PCI-SG15	C		1	
M	0510	PCI	Package Identification	M	1		
Must Use	0570		Segment Group 15: GIN	C		1	
M	0580	GIN	Goods Identity Number	M	1		

D	0650		Segment Group 17: LIN-PIA-QTY-DTM-SG22	C	9999
M	0660	LIN	Line Item	M	1
D	0670	PIA	Additional Product Id	C	1
O	0680	IMD	Item Description	C	1
Must Use	0700	QTY	Quantity	C	1
O	0750	DTM	Date/Time/Period	C	1
O	0990		Segment Group 22: PCI-SG23	C	1
M	1000	PCI	Package Identification	M	1
Must Use	1040		Segment Group 23: GIN	C	1
M	1050	GIN	Goods Identity Number	M	1

Summary Section:

	Pos. No.	Seg. ID	Name	Req. Des.	Max.Use	Group Repeat	Notes and Comments
Must Use	1140	CNT	Control Total	C	1		
M	1150	UNT	Message Trailer	M	1		
M	1180	UNZ	Interchange Trailer	M	1		

Segment:	**UNA** Service String Advice
Position:	
Group:	
Level:	0
Usage:	Mandatory
Max Use:	1
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 Element	Component Element	Name	Attributes	
M	0010		**COMPONENT DATA ELEMENT SEPARATOR**	M	an..1
			Composite element delimiter		
			: Colon		
M	0020		**DATA ELEMENT SEPARATOR**	M	an..1
			Data element delimiter		
			+ Plus sign		
M	0030		**DECIMAL NOTATION**	M	an..1
			The character transferred in this position shall be ignored by the recipient. Retained to maintain upward compatibility with earlier versions of the syntax.		
			. Full stop / Period		
M	0040		**RELEASE INDICATOR**	M	an..1
			Release indicator is used to signify that the following texts contain one of the characters used as composite, data or segment delimiter, hence release its usage convention for that instance.		
			? Question mark		
M	0050		**RESERVED FOR FUTURE USE**	M	an..1
			Not used.		
			White space (blank)		
M	0060		**SEGMENT TERMINATOR**	M	an..1
			Used to delimit the end of the current segment and start a new segment.		
			' Apostrophe		

	Segment:	**UNB** Interchange Header

Segment: **UNB** Interchange Header
Position: 0005
Group:
Level: 0
Usage: Mandatory
Max Use: 1
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 0001 and DE 0002 as UNOC:3.

This supports all characters defined in ISO 8859-1 : Information processing - Part 1: Latin alphabet No. 1

Example:

UNB+UNOC:3+SUPPLIER_GLN:14+9377779424865:14+190304:1005+73920001++++1'
UNB+UNOC:3+SUPPLIER_GLN:14+TST1DRAKES:ZZZ+190304:1005+73++++1'

Data Element Summary

	Data Element	Component Element	Name	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; supplier		
Must Use		0007	**Partner identification code qualifier**	C	an..4
			Qualifier referring to the source of codes for the identifiers of interchanging partners.		
			14 EAN International		
			Partner identification code assigned by the European Article Numbering Association.		
			ZZZ Mutually defined		
			Mutually defined between trading partners.		
Not Used		0008	**Address for reverse routing**	C	an..14
			Address specified by the sender of an interchange to be included by the recipient in the response interchanges to facilitate internal routing.		
M	S003		**INTERCHANGE RECIPIENT**	M	1
			Identification of the recipient of the interchange.		
M		0010	**Recipient identification**	M	an..35
			Name or coded representation of the recipient of a data interchange.		

			Drakes will use the following addresses:			
			Production EDI Identifier		**9377779424865**	
			Testing & Certification EDI Identifier		**TST1DRAKES**	

Must Use		**0007**	**Partner identification code qualifier**	C		an..4

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

	14		EAN International

Partner identification code assigned by the European Article Numbering Association.

Drakes Supermarkets code qualifier used for Production

	ZZZ		Mutually defined

Mutually defined between trading partners.

Drakes Supermarkets code qualifier used for Testing & Certification

Not Used		**0014**	**Routing address**	C		an..14

Address specified by the recipient of an interchange to be included by the sender and used by the recipient for routing of received interchanges inside his organization.

M		**S004**	**DATE AND TIME OF PREPARATION**	M	1	

Date and time of preparation of the interchange.

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

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

Date in YYMMDD format, i.e. March 4th, 2019 is presented as 190304

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

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

Time in 24 hour-clock format, i.e. 3:30 PM is presented as 1530

M	**0020**		**INTERCHANGE CONTROL REFERENCE**	M	1	an..14

Unique reference assigned by the sender to an interchange.

This data element is specified as alphanumeric and, for all Drakes implementations, only numbers are accepted as interchange control. The value presented here must match with the value presented in DE 0020 in segment UNZ.

Not Used	**S005**		**RECIPIENTS REFERENCE PASSWORD**	C	1	

Reference or password as agreed between the communicating partners.

Not Used		**0026**	**APPLICATION REFERENCE**	C	1	an..14

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

Not Used		**0029**	**PROCESSING PRIORITY CODE**	C	1	a1

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

Must Use		**0031**	**ACKNOWLEDGEMENT REQUEST**	C	1	n1

Code determined by the sender for acknowledgement of the interchange.

Used to indicate if the sender requires an acknowledgement of the message receipt by the receiving party via a CONTRL message. If not specified, the CONTRL message will not be returned to the sender.

	1		Requested

Acknowledgement is requested.

Not Used		**0032**	**COMMUNICATIONS AGREEMENT ID**	C	1	an..35

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

Not Used		**0035**	**TEST INDICATOR**	C	1	n1

Indication that the interchange is a test.

Segment:	**UNH** Message Header
Position:	0010
Group:	
Level:	0
Usage:	Mandatory
Max Use:	1
Purpose:	A service segment starting and uniquely identifying a message. The message type code for the Despatch advice message is DESADV. Note: Despatch advice messages conforming to this document must contain the following data in segment UNH, composite S009: Data element 0065 DESADV 0052 D 0054 01B 0051 UN

Dependency Notes:	
Semantic Notes:	
Comments:	
Notes:	Despatch Advice Heading Section This segment is used to head, identify and specify a message. DE's 0065, 0052, 0054, and 0051: Indicate that the message is a UNSM Despatch Advice based on the D.01B directory under the control of the United Nations. Example: UNH+1+DESADV:D:01B:UN:EAN007'

Data Element Summary

	Data Element	Component Element	Name		Attributes
M	0062		**MESSAGE REFERENCE NUMBER**	M	1 an..14
			Unique message reference assigned by the sender.		
			Sequence number of the message in the interchange generated by sender. DE 0062 in the UNH segment will be exactly the same as in the UNT segment.		
M	S009		**MESSAGE IDENTIFIER**	M	1
			Identification of the type, version etc. of the message being interchanged.		
M		0065	**Message type identifier**	M	an..6
			Code identifying a type of message and assigned by its controlling agency.		
			DESADV Despatch advice message		
			A code to identify the despatch advice message.		
			EAN Description: A message specifying details for goods despatched or ready for despatch under agreed conditions. The United Nations Despatch Advice Message serves both as a specification for Delivery Despatch Advice and also as a Returns Despatch Advice message.		
M		0052	**Message type version number**	M	an..3
			Version number of a message type.		
			D Draft version/UN/EDIFACT Directory		
			Message approved and issued as a draft message (Valid for directories published after March 1993 and prior to March 1997). Message approved as a standard message (Valid for directories published after March 1997).		
M		0054	**Message type release number**	M	an..3
			Release number within the current message type version number (0052).		
			01B Release 2001 - B		

Message approved and issued in the second 2001 release of the UNTDID (United Nations Trade Data Interchange Directory).

M		0051	**Controlling agency**	M	an..2

Code identifying the agency controlling the specification, maintenance and publication of the message type.

UN	UN/CEFACT

United Nations Centre for Trade Facilitation and Electronic Business (UN/CEFACT).

Must Use		0057	**Association assigned code**	C	an..6

Code, assigned by the association responsible for the design and maintenance of the message type concerned, which further identifies the message.

EAN007	GS1 version control number GS1 Permanent Code

Not Used	0068	**COMMON ACCESS REFERENCE**	C	1	an..35

Reference serving as a key to relate all subsequent transfers of data to the same business case or file.

Not Used	S010	**STATUS OF THE TRANSFER**	C	1

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

		Segment:	**BGM** Beginning of Message

Segment: **BGM** Beginning of Message
Position: 0020
Group:
Level: 0
Usage: Mandatory
Max Use: 1
Purpose: A segment for unique identification of the Despatch Advice document, by means of its name and its number.
Dependency Notes:
Semantic Notes:
Comments:
Notes: This segment is used to indicate the type and function of the message and to transmit the identifying number. All references other than the document number DE C106.1004 are to be put in the SG1, segment RFF.

Example:
BGM+351+DES587441+9'

Data Element Summary

	Data Element	Component Element	Name		Attributes	
Must Use	C002		**DOCUMENT/MESSAGE NAME**	C	1	
			Identification of a type of document/message by code or name. Code preferred.			
		1001	**Document name code**	C		an..3
			Code specifying the document name.			
			351 Despatch advice			
			Document/message by means of which the seller or consignor informs the consignee about the despatch of goods.			
Not Used		1131	**Code list identification code**	C		an..17
			Code identifying a user or association maintained code list.			
Not Used		3055	**Code list responsible agency code**	C		an..3
			Code specifying the agency responsible for a code list.			
Not Used		1000	**Document name**	C		an..35
			Name of a document.			
Must Use	C106		**DOCUMENT/MESSAGE IDENTIFICATION**	C	1	
			Identification of a document/message by its number and eventually its version or revision.			
Must Use		1004	**Document identifier**	C		an..35
			To identify a document.			
			Despatch Advice number assigned by the document sender (supplier). Format: Alphanumeric Maximum length: 20			
Not Used		1056	**Version identifier**	C		an..9
			To identify a version.			
Not Used		1060	**Revision identifier**	C		an..6
			To identify a revision.			
Must Use	1225		**MESSAGE FUNCTION CODE**	C	1	an..3
			Code indicating the function of the message.			
			9 Original			
			Initial transmission related to a given transaction.			
			An original transmission of a Despatch Advice message.			
Not Used	4343		**RESPONSE TYPE CODE**	C	1	an..3
			Code specifying the type of acknowledgment required or transmitted.			

Segment:	**DTM** Date/Time/Period
Position:	0030
Group:	
Level:	1
Usage:	Conditional (Required)
Max Use:	3
Purpose:	Date/time/period related to the whole message. The DTM segment must be specified at least once to identify the Despatch Advice date.
Dependency Notes:	
Semantic Notes:	
Comments:	
Notes:	This segment is used to specify the date of the Despatch Advice or any dates related to the delivery of goods.

DE 2005: Identification of the 'Document/message date/time' (code value 137) is mandatory in EANCOM message.

Example:

Despatch advice created date
DTM+137:20190306:102'

Date when the goods left the despatch point
DTM+11:20190306:102'

Estimated arrival date at the delivery location
DTM+17:20190308:102'

Data Element Summary

	Data Element	Component Element	Name		Attributes
M	C507		**DATE/TIME/PERIOD**	M	1
			Date and/or time, or period relevant to the specified date/time/period type.		
M		2005	**Date or time or period function code qualifier**	M	an..3
			Code qualifying the function of a date, time or period.		
			11	Despatch date and or time	
				(2170) Date/time on which the goods are or are expected to be despatched or shipped.	
				Required: date when the goods left the despatch point.	
			17	Delivery date/time, estimated	
				Date and/or time when the shipper of the goods expects delivery will take place.	
				Required: Date estimated for the goods to arrive	
			137	Document/message date/time	
				(2006) Date/time when a document/message is issued. This may include authentication.	
				Required: despatch advice message creation date	
Must Use		2380	**Date or time or period value**	C	an..35
			The value of a date, a date and time, a time or of a period in a specified representation.		
Must Use		2379	**Date or time or period format code**	C	an..3
			Code specifying the representation of a date, time or period.		
			102	CCYYMMDD	
				Calendar date: C = Century ; Y = Year ; M = Month ; D = Day.	

Segment:	**ALI** Additional Information		
Position:	0040		
Group:			
Level:	0		
Usage:	Conditional (Dependent)		
Max Use:	1		
Purpose:	A segment indicating that the message is subject to special conditions due to origin, customs preference or commercial factors.		
Dependency Notes:			
Semantic Notes:			
Comments:			
Notes:	This segment is used to indicate special conditions that apply to the whole message. In this implementation the segment is used to indicate whether the message relates to a complete or part/split shipment.		

Example:

This shipment forms part of a Split Shipment
ALI+++165'

This shipment completes an Order
ALI+++164'

Data Element Summary

	Data Element	Component Element	Name		Attributes	
Not Used	3239		COUNTRY OF ORIGIN NAME CODE	C	1	an..3
			Code specifying the name of the country of origin.			
Not Used	9213		DUTY REGIME TYPE CODE	C	1	an..3
			Code specifying a type of duty regime.			
			Refer to D.01B Data Element Dictionary for acceptable code values.			
Must Use	4183		SPECIAL CONDITION CODE	C	1	an..3
			Code specifying a special condition.			
		164	Shipment completes order			
			There will be no further shipments for this order as it is considered complete.			
		165	Split shipment			
			Subsequent shipment(s) will arrive for this order as it has been split over more than one shipment.			
Not Used	4183		SPECIAL CONDITION CODE	C	1	an..3
			Code specifying a special condition.			
Not Used	4183		SPECIAL CONDITION CODE	C	1	an..3
			Code specifying a special condition.			
Not Used	4183		SPECIAL CONDITION CODE	C	1	an..3
			Code specifying a special condition.			
Not Used	4183		SPECIAL CONDITION CODE	C	1	an..3
			Code specifying a special condition.			

	Group:	**RFF** Segment Group 1: Reference

Group: **RFF** Segment Group 1: Reference

Position: 0080

Group:

Level: 1

Usage: Conditional (Required)

Max Use: 2

Purpose: A group of segments giving references where necessary, their dates relating to the whole message, e.g.   contract number.

Notes: This Segment Group is used to specify references which relate to the whole Despatch Advice message which includes Drakes Supermarkets Purchase Order Number and the Carrier's reference number.

Segment Summary

	Pos. No.	Seg. ID	Name		Req. Des.	Max. Use	Group: Repeat
M	0090	RFF	Reference		M	1	

Segment:	**RFF** Reference			
Position:	0090 (Trigger Segment)			
Group:	Segment Group 1 (Reference)	Conditional (Required)		
Level:	1			
Usage:	Mandatory			
Max Use:	1			
Purpose:	A segment for referencing documents relating to the whole despatch advice message, e.g. purchase orders, delivery instructions, import/export license.			

Dependency Notes:
Semantic Notes:
Comments:
Notes:

> **Purchase Order number is required as shown in the original Purchase Order.**
>
> Examples:
>
> RFF+ON:120074299'
> RFF+CN:4122500052884'

Data Element Summary

	Data Element	Component Element	Name	Attributes	
M	C506		REFERENCE	M	1
			Identification of a reference.		
M		1153	Reference code qualifier	M	an..3
			Code qualifying a reference.		
		CN	Carrier's reference number		
			Reference number assigned by carrier to a consignment.		
			Optional: Carrier Carrier's reference number (Consignment note number)		
		ON	Order number (purchase)		
			[1022] Reference number assigned by the buyer to an order.		
			Required: A valid Purchase Order Number		
Must Use		1154	Reference identifier	C	an..70
			Identifies a reference.		
			Required: Purchase Order number as shown in the original Purchase Order sent by Drakes Format: Numeric Maximum length: 10 Optional: Consignment number Format: Alphanumeric Maximum length: 70		
Not Used		1156	Document line identifier	C	an..6
			To identify a line of a document.		
Not Used		4000	Reference version identifier	C	an..35
			To identify the version of a reference.		
Not Used		1060	Revision identifier	C	an..6
			To identify a revision.		

	Group:	**NAD** Segment Group 2: Name and Address
	Position:	0110
	Group:	
	Level:	1
	Usage:	Conditional (Required)
	Max Use:	3
	Purpose:	A group of segments identifying names, addresses, locations, and required supporting documents relevant to the whole Despatch Advice.
	Notes:	This segment group provides information relating to the parties involved including the buyer, seller, transport service provider, freight forwarder or ultimate recipient (consignee) of the goods.

Drakes Supermarkets requirements include:
- Buyer (Drakes) Global Location Number (GLN)
- Supplier number (Drakes' assigned supplier code).
- Delivery location (Warehouse/DC) as instructed in the Purchase Order

Examples:

Buyer - Drakes Supermarkets
NAD+BY+9377779424865::9'

Supplier:
NAD+SU+8353296::92'

DC / Warehouse - Brave Logistics :
NAD+ST+210::92'

Segment Summary

	Pos. No.	Seg. ID	Name	Req. Des.	Max. Use	Group: Repeat
M	0120	NAD	Name and Address	M	1	

Segment: # NAD **Name and Address**
Position: 0120 (Trigger Segment)
Group: Segment Group 2 (Name and Address)   Conditional (Required)
Level: 1
Usage: Mandatory
Max Use: 1
Purpose: A segment for identifying names, addresses, and their functions relevant to the whole Despatch Advice.   Identification of the parties involved is recommended for the Despatch Advice message, and is to be given in the NAD segment.
It is recommended that where possible, only the coded form of the party ID should be specified, e.g. the buyer and seller are known to each other, thus only the coded ID is required. The consignee or delivery address may vary and would have to be clearly specified, preferably in structured format.

Dependency Notes:
Semantic Notes:
Comments:
Notes: For examples, see explanatory notes in NAD Segment Group 2 (SG2).

Data Element Summary

	Data Element	Component Element	Name		Attributes	
M	3035		PARTY FUNCTION CODE QUALIFIER	M	1	an..3

Code giving specific meaning to a party.

       BY   Buyer
                                       Party to whom merchandise and/or service is sold.
                                       Required: used to identify the buyer responsible for this shipment

       ST   Ship to
                                         Identification of the party to where goods will be or have been shipped.
                                         Required: Warehouse/DC code

       SU   Supplier
                                         Party who supplies goods and/or services.
                                         Required: Drakes assigned supplier code.

	Data Element	Component Element	Name		Attributes	
Must Use	C082		PARTY IDENTIFICATION DETAILS	C	1	

Identification of a transaction party by code.

M		3039	Party identifier	M		an..35

Code specifying the identity of a party.

Drakes Buyer (DE 3035 = BY)
Format: GLN

Warehouse (DE 3035 = ST)
Format: Numeric
Maximum length: 3

Drakes assigned supplier number (DE 3035 = SU)
Format: Numeric
Maximum length: 10

Not Used		1131	Code list identification code	C		an..17

Code identifying a user or association maintained code list.

Must Use		3055	Code list responsible agency code	C		an..3

Code specifying the agency responsible for a code list.

       9   EAN (International Article Numbering association)
                                         International Article Numbering association.
                                         Used when DE 3035 = BY

       92   Assigned by buyer or buyer's agent

Codes assigned by a buyer or buyer's agent.

Used when DE 3035 = ST and SU

Not Used	C058	**NAME AND ADDRESS**	**C**	**1**	

Unstructured name and address: one to five lines.

Not Used	C080	**PARTY NAME**	**C**	**1**	

Identification of a transaction party by name, one to five lines. Party name may be formatted.

Not Used	C059	**STREET**	**C**	**1**	

Street address and/or PO Box number in a structured address: one to four lines.

Not Used	3164	**CITY NAME**	**C**	**1**	an..35

Name of a city.

Not Used	C819	**COUNTRY SUB-ENTITY DETAILS**	**C**	**1**	

To specify a part of a country (eg county or part of a city).

Not Used	3251	**POSTAL IDENTIFICATION CODE**	**C**	**1**	an..17

Code specifying the postal zone or address.

Not Used	3207	**COUNTRY NAME CODE**	**C**	**1**	an..3

Identification of the name of the country or other geographical entity as defined in ISO 3166-1.

Group:	**CPS** Segment Group 10: Consignment Packing Sequence
Position:	0390
Group:	
Level:	1
Usage:	Conditional (Required)
Max Use:	9999
Purpose:	A group of segments providing details of all package levels and of the individual despatched items contained in the consignment. This segment group provides the capability to give the hierarchical packing relationships. The group defines a logical top-down order structure. The lowest level package information of the hierarchy is followed by the detail product information.
Notes:	This segment group provides information relating to the packing configuration within the current consignment.

This implementation requires SSCC at pallet level.

The following packing sequence illustrates how the CPS Segment Group (SG10) is used to provide details relating to a hierarchy of packing sequence.

CPS Level 1 (DE 7075 =1E) Required
- Shipment or parent level
PAC
- Total number of pallets in the shipment

CPS Level 3 (DE 7075 = 3); repeats for each outer pack
- Pallet level
PAC
- Total number of cartons on pallet
GIN
- SSCC on pallet

LIN - PIA - QTY
- Product item reference
- Total quantity despatched

Example 1:

Level 1 - Shipment level
First consignment packing sequence consisting of 2 pallets labelled with EAN128 barcodes, such as serial shipping container code (SSCC). This reflects the packing sequence at the shipment level.

CPS+1++1E'
PAC+2++09::9'

Level 2 - Pallet level
Second consignment packing sequence may repeat several times. Each occurrence reflects to different Pallet SSCC going to same or different store.

This packing sequence will always have the shipment level as the parent level. With the SSCC provided within the same PCI SG13. Pallet stated in this instance is LOSCAM type.
Following example shows 2 items packed across 22 cartons.

CPS+2+1+3'
  PAC+1++09::9+F:LOSCAM'
  MEA+PD+AAA+KGM:95.00'
  PCI+33E'
  GIN+AW+0039300633800001015'

```
PAC+22++CT'
  LIN+1++9999999999999:SRV'
  QTY+12:22'
  DTM+36:20191231:102'
  PCI+34E'
  GIN+BX+BATCH2005122910'
```

Segment Summary

	Pos. No.	Seg. ID	Name	Req. Des.	Max. Use	Group: Repeat
M	0400	CPS	Consignment Packing Sequence	M	1	
Must Use	0430		Segment Group 11: Package	C		2
D	0650		Segment Group 17: Line Item	C		9999

Segment:	**CPS** Consignment Packing Sequence			

Position: 0400 (Trigger Segment)
Group: Segment Group 10 (Consignment Packing Sequence)   Conditional
(Required)
Level: 1
Usage: Mandatory
Max Use: 1
Purpose: A segment identifying the sequence in which packing of the consignment occurs, e.g.   boxes loaded onto a pallet.

Dependency Notes:
Semantic Notes:
Comments:
Notes: This segment is used to identify the sequence in which packing of the consignment occurs.

Examples:

Shipment Level
CPS+1++1E'

Pallet   - Outer pack
CPS+2+1+3'

Data Element Summary

	Data Element	Component Element	Name		Attributes	
M	7164		**HIERARCHICAL STRUCTURE LEVEL IDENTIFIER**	M	1	an..35
			To identify a level within a hierarchical structure.			
			Sequential numbering Format: Numeric Minimum length: 1 Maximum length: 3			
D	7166		**HIERARCHICAL STRUCTURE PARENT IDENTIFIER**	C	1	an..35
			To identify the next higher level in a hierarchical structure.			
			Format: Numeric Minimum length: 1 Maximum length: 3			
Must Use	7075		**PACKAGING LEVEL CODE**	C	1	an..3
			Code specifying a level of packaging.			
		3	Outer			
			For packed merchandise, outermost level of packaging for a shipment.			
			Required for each pallet (outer pack)			
		1E	Highest			
			Level of packaging, if it exists, which is highest in the packaging hierarchy.			
			Must be used once to explicitly identify that the CPS group is for the total shipment level.			

PAC Segment Group 11: Package

Group:	**PAC** Segment Group 11: Package	
Position:	0430	
Group:	Segment Group 10 (Consignment Packing Sequence)	Conditional
	(Required)	
Level:	2	
Usage:	Conditional (Required)	
Max Use:	2	
Purpose:	A group of segments identifying packaging, physical dimensions, marks and numbers, quantities, date and time information, handling information and information about packing at this level.	
Notes:	This segment group provides information relating to the packing configuration within the current consignment packing sequence (CPS). Different packing sequence presents different contextual meaning to the packing information listed below.	

At CPS level 1 (DE 7075 = 1E), the PAC SG11 includes the count of pallets for the entire shipment.

At CPS level 2 (DE 7075 = 3) the PAC SG11 includes packing configuration for each of the pallet.

MEA
- Net weight (KGM) applicable to each pallet.
- Number layers and units per layer (for each or all pallets)

Segment Summary

	Pos. No.	Seg. ID	Name	Req. Des.	Max. Use	Group: Repeat
M	0440	PAC	Package	M	1	
D	0450	MEA	Measurements	C	5	
D	0500		Segment Group 13: Package Identification	C		1

Segment: # PAC Package
Position: 0440 (Trigger Segment)
Group: Segment Group 11 (Package)   Conditional (Required)
Level: 2
Usage: Mandatory
Max Use: 1
Purpose: A segment specifying the number and type of the packages/physical units and the physical type of packaging for the despatched goods.

Dependency Notes:
Semantic Notes:
Comments:
Notes:
This segment can be used to identify the total number of packages per hierarchical level identified in the CPS segment, in a shipment. The content of each package is subsequently described in the following LIN segment.

Example:

Shipment Level - shipment contains 2 pallets
PAC+2++09'

Pallet Level - pallet contains 44 cartons
PAC+44++CT'

Data Element Summary

	Data Element	Component Element	Name		Attributes	
Must Use	7224		**PACKAGE QUANTITY**	C	1	n..8
			To specify the number of packages.			
			Total number of packages included for this pack types, according to the packing sequence			
Not Used	C531		**PACKAGING DETAILS**	C	1	
			Packaging level and details, terms and conditions.			
Must Use	C202		**PACKAGE TYPE**	C	1	
			Type of package by name or by code from a specified source.			
Must Use		7065	**Package type description code**	C		an..17
			Code specifying the type of package.			
			09 Returnable pallet GS1 code			
			CT Carton			
			A cardboard box or container			
Not Used		1131	**Code list identification code**	C		an..17
			Code identifying a user or association maintained code list.			
D		3055	**Code list responsible agency code**	C		an..3
			Code specifying the agency responsible for a code list.			
			9 EAN (International Article Numbering association)			
			International Article Numbering association.			
			Required when the package type specified in DE 7065 contains a GS1 managed code. For example, if a returnable pallet is defined (DE C202.7065 = 09)			
Not Used		7064	**Type of packages**	C		an..35
			Description of the form in which goods are presented.			
D	C402		**PACKAGE TYPE IDENTIFICATION**	C	1	
			Identification of the form in which goods are described.			
M		7077	**Description format code**	M		an..3
			Code specifying the format of a description.			
			F Free-form			

Description of an item in free form text.

M		7064	**Type of packages**	M	an..35

Description of the form in which goods are presented.

Required when DE 7065 = 09 to specify the returnable pallets by type

Pallet types supported by Drakes:
'LOSCAM'
'CHEP'
Or
'UNKNOWN'

Not Used		7143	**Item type identification code**	C	an..3

Coded identification of an item type.

Not Used		7064	**Type of packages**	C	an..35

Description of the form in which goods are presented.

Not Used		7143	**Item type identification code**	C	an..3

Coded identification of an item type.

Not Used	C532		**RETURNABLE PACKAGE DETAILS**	C	1

Indication of responsibility for payment and load contents of returnable packages.

Segment:	**MEA** Measurements			
Position:	0450			
Group:	Segment Group 11 (Package)	Conditional (Required)		
Level:	3			
Usage:	Conditional (Dependent)			
Max Use:	5			
Purpose:	A segment specifying physical measurements of the packages/physical units described in the PAC segment.			
Dependency Notes:				
Semantic Notes:				
Comments:				

Notes:
This segment is used to provide measurements relevant to the packaging unit and level described in the PAC segment.

Examples:

Net unit weight of the packaging unit is 22.50 kilograms
MEA+PD+AAA+KGM:22.50'

There are 12 units per layer and 6 layers on the pallet.
MEA+PD+ULY+NAR:12'
MEA+PD+LAY+NAR:6'

Data Element Summary

	Data Element	Component Element	Name	Attributes		
M	6311		**MEASUREMENT PURPOSE CODE QUALIFIER**	M	1	an..3
			Code qualifying the purpose of the measurement.			
		CT	Counts			
			The measurement is counts.			
			used when DE C502.6313 = NPP			
		PD	Physical dimensions (product ordered)			
			Specified measurement dimensions refer to physical dimensions of a product, material or package.			
Must Use	C502		**MEASUREMENT DETAILS**	C	1	
			Identification of measurement type.			
Must Use		6313	**Measured attribute code**	C		an..3
			Code specifying the attribute measured.			
		AAA	Unit net weight			
			[6160] Weight (mass) of goods including any packing normally going with them to a buyer in a retail sale.			
			Conditional: Net weight in kilograms for the current pallet (or shipping unit) is required for Random Weight product.			
		AAB	Unit gross weight			
			[6292] Weight (mass) of goods including packing but excluding the carrier's equipment.			
			Gross weight in kilograms for the current shipping unit			
		LAY	Number of layers EAN Code			
		NPP	Number of pallet places EAN Code			
		ULY	Number of units per layer EAN Code			
Not Used		6321	**Measurement significance code**	C		an..3
			Code specifying the significance of a measurement.			
Not Used		6155	**Non-discrete measurement name code**	C		an..17
			Code specifying the name of a non-discrete measurement.			

Not Used		6154	**Non-discrete measurement name**	C		an..70

Name of a non-discrete measurement.

Must Use	C174		**VALUE/RANGE**	C	1	

Measurement value and relevant minimum and maximum values of the measurement range.

M		6411	**Measurement unit code**	M		an..3

Code specifying the unit of measurement.

KGM	Kilogram

Required when DE C502.6313 = AAA or AAB

NAR	EAN code for number of articles

Required when DE C502.6313 = LAY or ULY or NPP

Must Use		6314	**Measurement value**	C		an..18

To specify the value of a measurement.

Conditional: required when DE C502.6313 = AAA. 'Measurement value' (DE C174.6313) presents the weight chargeable to Drakes.

Format: Numeric (DE C502.6313 = LAY or ULY or NPP)
Format: Numeric, 2 decimal places (DE C502.6313 = AAA or AAB)
Maximum length: 15

Not Used		6162	**Range minimum value**	C		n..18

To specify the minimum value of a range.

Not Used		6152	**Range maximum value**	C		n..18

To specify the maximum value of a range.

Not Used		6432	**Significant digits quantity**	C		n..2

Count of the number of significant digits.

Not Used	7383		**SURFACE OR LAYER CODE**	C	1	an..3

Code specifying the surface or layer of an object.

	Group:	**PCI** **Segment Group 13: Package Identification**
	Position:	0500
	Group:	Segment Group 11 (Package) Conditional (Required)
	Level:	3
	Usage:	Conditional (Dependent)
	Max Use:	1
	Purpose:	A group of segments specifying markings, labels, and packing numbers.
	Notes:	Segment Group 13 must be used for providing pallet or carton SSCC.

Segment Summary

	Pos. No.	Seg. ID	Name	Req. Des.	Max. Use	Group: Repeat
M	0510	PCI	Package Identification	M	1	
Must Use	0570		Segment Group 15: Goods Identity Number	C		1

Segment:	**PCI** Package Identification
Position:	0510 (Trigger Segment)
Group:	Segment Group 13 (Package Identification)　　　Conditional (Dependent)
Level:	3
Usage:	Mandatory
Max Use:	1
Purpose:	A segment specifying markings and/or labels used on individual physical units (packages) described in the PAC segment.

Dependency Notes:	
Semantic Notes:	
Comments:	
Notes:	This segment is used to provide markings and labels information relevant to the packaging unit and level identified in the PAC segment. Example: PCI+33E'

Data Element Summary

	Data Element	Component Element	Name		Attributes	
Must Use	4233		**MARKING INSTRUCTIONS CODE**	C	1	an..3

Code specifying instructions for marking.

	33E	Marked with serial shipping container code (GS1 Code)

Indication that the serial shipping container code has been marked on a package.

	Data Element	Component Element	Name		Attributes	
Not Used	C210		**MARKS & LABELS**	C	1	

Shipping marks on packages in free text; one to ten lines.

	Data Element	Component Element	Name		Attributes	
Not Used	8275		**CONTAINER OR PACKAGE CONTENTS INDICATOR CODE**	C	1	an..3

Code indicating the contents of container or package.

	Data Element	Component Element	Name		Attributes	
Not Used	C827		**TYPE OF MARKING**	C	1	

Specification of the type of marking that reflects the method that was used and the conventions adhered to for marking (e.g. of packages).

		Group:	**GIN** Segment Group 15: Goods Identity Number

Group: **GIN** Segment Group 15: Goods Identity Number
Position: 0570
Group: Segment Group 13 (Package Identification)   Conditional (Dependent)
Level: 4
Usage: Conditional (Required)
Max Use: 1
Purpose: A group of segments giving package identification numbers and, where relevant, delivery limitation information.
Notes: This segment group provides information related to the marking requirements specified for different delivery scenarios. Identifiers may include the SSCC and/or GTIN of the products included in the delivery.

Segment Summary

	Pos. No.	Seg. ID	Name	Req. Des.	Max. Use	Group: Repeat
M	0580	GIN	Goods Identity Number	M	1	

Segment: # GIN Goods Identity Number
Position: 0580 (Trigger Segment)
Group: Segment Group 15 (Goods Identity Number)   Conditional (Required)
Level: 4
Usage: Mandatory
Max Use: 1
Purpose: A segment providing the identity numbers of packages being despatched.
Dependency Notes:
Semantic Notes:
Comments:
Notes: This segment is used to provide identification numbers relevant to the packaging unit and level identified in the PAC segment.

Example:
GIN+AW+354123450000000014'

Data Element Summary

	Data Element	Component Element	Name		Attributes		
M	7405		**OBJECT IDENTIFICATION CODE QUALIFIER**	M	1	an..3
			Code qualifying the identification of an object.			
		AW	Serial shipping container code			
			A single unique serial number which identifies shipping containers or shipping packages.			
M	C208		**IDENTITY NUMBER RANGE**	M	1	
			Goods item identification numbers, start and end of consecutively numbered range.			
M		7402	**Object identifier**	M		an..35
			Code specifying the unique identity of an object.			
			Numeric representation of GS1 18 Barcodes (20 digit with Application Identifier included) Format: Numeric Minimum length: 18 Maximum length: 20			
Not Used		7402	**Object identifier**	C		an..35
			Code specifying the unique identity of an object.			
Not Used	C208		**IDENTITY NUMBER RANGE**	C	1	
			Goods item identification numbers, start and end of consecutively numbered range.			
Not Used	C208		**IDENTITY NUMBER RANGE**	C	1	
			Goods item identification numbers, start and end of consecutively numbered range.			
Not Used	C208		**IDENTITY NUMBER RANGE**	C	1	
			Goods item identification numbers, start and end of consecutively numbered range.			
Not Used	C208		**IDENTITY NUMBER RANGE**	C	1	
			Goods item identification numbers, start and end of consecutively numbered range.			

		Group:	**LIN** Segment Group 17: Line Item			

Group: **LIN** Segment Group 17: Line Item
Position: 0650
Group: Segment Group 10 (Consignment Packing Sequence)   Conditional (Required)
Level: 2
Usage: Conditional (Dependent)
Max Use: 9999
Purpose: A group of segments providing details of the individual despatched items.
Notes: This segment group provides information relating to the products included in the delivery according to the packing configuration within the current consignment packing sequence.

The detail section is formed by a repeating group of segments, always starting with a LIN segment.

GTIN (Global Trade Item Number) will be the primary product identification. Where there is no GTIN available, the shipped product will be identified by the supplier product code.

Example:

LIN+1++29352042000551:SVR'
QTY+12:10'
DTM+36:20191231:102'
PCI+34E'
GIN+BX+BATCH2005122910'

Segment Summary

	Pos. No.	Seg. ID	Name	Req. Des.	Max. Use	Group: Repeat
M	0660	LIN	Line Item	M	1	
D	0670	PIA	Additional Product Id	C	1	
O	0680	IMD	Item Description	C	1	
Must Use	0700	QTY	Quantity	C	1	
O	0750	DTM	Date/Time/Period	C	1	
O	0990		Segment Group 22: Package Identification	C		1

Segment: # LIN Line Item
Position: 0660 (Trigger Segment)
Group: Segment Group 17 (Line Item)   Conditional (Dependent)
Level: 2
Usage: Mandatory
Max Use: 1
Purpose: A segment identifying the product being despatched.
All other segments in the detail section following the LIN segment refer to that line item.

Dependency Notes:
Semantic Notes:
Comments:
Notes:

Examples:

LIN+1++0607845051019:SRV'
LIN+2'

Data Element Summary

	Data Element	Component Element	Name		Attributes	
Must Use	1082		LINE ITEM IDENTIFIER	C	1	an..6
			To identify a line item.			
			Application generated sequential line number. The line number must be unique within the current message.			
Not Used	1229		ACTION REQUEST/NOTIFICATION DESCRIPTION CODE	C	1	an..3
			Code specifying the action to be taken or already taken.			
D	C212		ITEM NUMBER IDENTIFICATION	C	1	
			Goods identification for a specified source.			
Must Use		7140	Item identifier	C		an..35
			To identify an item.			
			The Global Trade Item Number (GTIN) of the product. Format: Numeric Minimum length: 8 Maximum length: 14			
Must Use		7143	Item type identification code	C		an..3
			Coded identification of an item type.			
			SRV EAN.UCC Global Trade Item Number			
			A unique number, up to 14-digits, assigned according to the numbering structure of the EAN.UCC system. 'EAN' stands for the 'International Article Numbering Association', and 'UCC' for the 'Uniform Code Council'.			
Not Used		1131	Code list identification code	C		an..17
			Code identifying a user or association maintained code list.			
Not Used		3055	Code list responsible agency code	C		an..3
			Code specifying the agency responsible for a code list.			
Not Used	C829		SUB-LINE INFORMATION	C	1	
			To provide an indication that a segment or segment group is used to contain sub-line or sub-line item information and to optionally enable the sub-line to be identified.			
Not Used	1222		CONFIGURATION LEVEL NUMBER	C	1	n..2
			To specify a level within a configuration.			
Not Used	7083		CONFIGURATION OPERATION CODE	C	1	an..3
			Code specifying the configuration operation.			

Segment: # PIA Additional Product Id
Position: 0670
Group: Segment Group 17 (Line Item)   Conditional (Dependent)
Level: 3
Usage: Conditional (Dependent)
Max Use: 1
Purpose: A segment providing additional product identification.
Dependency Notes:
Semantic Notes:
Comments:
Notes: This segment is used to provide the identification of the product being ordered.
Supplier's product code must be provided if the product GTIN is not present the LIN DE C212.7140.

Example:
PIA+5+37188:SA'

Data Element Summary

	Data Element	Component Element	Name		Attributes	
M	4347		**PRODUCT IDENTIFIER CODE QUALIFIER**	M	1	an..3
			Code qualifying the product identifier.			
		1	Additional identification			
			Information which specifies and qualifies product identifications.			
			Used to provide an additional product identification			
		5	Product identification			
			The item number is for product identification.			
			Used to provide the primary product identification			
M	C212		**ITEM NUMBER IDENTIFICATION**	M	1	
			Goods identification for a specified source.			
Must Use		7140	Item identifier	C		an..35
			To identify an item.			
			Used to provide primary or additional information for the product. Format: Alphanumeric Maximum length: 35			
Must Use		7143	Item type identification code	C		an..3
			Coded identification of an item type.			
		SA	Supplier's article number			
			Number assigned to an article by the supplier of that article.			
Not Used		1131	**Code list identification code**	C		an..17
			Code identifying a user or association maintained code list.			
Not Used		3055	**Code list responsible agency code**	C		an..3
			Code specifying the agency responsible for a code list.			
Not Used	C212		**ITEM NUMBER IDENTIFICATION**	C	1	
			Goods identification for a specified source.			
Not Used	C212		**ITEM NUMBER IDENTIFICATION**	C	1	
			Goods identification for a specified source.			
Not Used	C212		**ITEM NUMBER IDENTIFICATION**	C	1	
			Goods identification for a specified source.			
Not Used	C212		**ITEM NUMBER IDENTIFICATION**	C	1	
			Goods identification for a specified source.			

Segment: # IMD Item Description

Position: 0680
Group: Segment Group 17 (Line Item)   Conditional (Dependent)
Level: 3
Usage: Conditional (Optional)
Max Use: 1
Purpose: A segment for describing the product or service being ordered as well as product characteristic.   This segment should be used for products or services that cannot be fully identified by a product code or article number.

Dependency Notes:
Semantic Notes:
Comments:
Notes:
This segment is used to provide an item description of the product ordered.

Example:

IMD+F++:::Product Description'

Data Element Summary

	Data Element	Component Element	Name		Attributes	
Must Use	7077		**DESCRIPTION FORMAT CODE**	C	1	an..3
			Code specifying the format of a description.			
			F Free-form			
			Description of an item in free form text.			
Not Used	C272		**ITEM CHARACTERISTIC**	C	1	
			To provide the characteristic of the item being described.			
Must Use	C273		**ITEM DESCRIPTION**	C	1	
			Description of an item.			
Not Used		7009	**Item description code**	C		an..17
			Code specifying an item.			
Not Used		1131	**Code list identification code**	C		an..17
			Code identifying a user or association maintained code list.			
Not Used		3055	**Code list responsible agency code**	C		an..3
			Code specifying the agency responsible for a code list.			
Must Use		7008	**Item description**	C		an..256
			Free form description of an item.			
			Free form description of product ordered. Format: Alphanumeric Maximum length: up to 120			
Not Used		7008	**Item description**	C		an..256
			Free form description of an item.			
Not Used		3453	**Language name code**	C		an..3
			Code specifying the language name.			
Not Used	7383		**SURFACE OR LAYER CODE**	C	1	an..3
			Code specifying the surface or layer of an object.			

Segment: # QTY Quantity
Position: 0700
Group: Segment Group 17 (Line Item)   Conditional (Dependent)
Level: 3
Usage: Conditional (Required)
Max Use: 1
Purpose: A segment to give quantity information concerning the product.
Dependency Notes:
Semantic Notes:
Comments:
Notes: This segment is used to specify the quantity of the product identified in the LIN segment which is about to be or has been despatched.

Example:

QTY+12:44'

Data Element Summary

	Data Element	Component Element	Name		Attributes
M	C186		**QUANTITY DETAILS**	M	1
			Quantity information in a transaction, qualified when relevant.		
M		6063	**Quantity type code qualifier**	M	an..3
			Code qualifying the type of quantity.		
			12 Despatch quantity		
			Quantity despatched by the seller.		
M		6060	**Quantity**	M	an..35
			Alphanumeric representation of a quantity.		
			Format: Numeric Maximum length: 15		
O		6411	**Measurement unit code**	C	an..3
			Code specifying the unit of measurement.		
			Recommend use UN/ECE Recommendation 20, Common code.		
			CT Carton		
			EA Each		

		Segment:	**DTM** Date/Time/Period

Segment: **DTM** Date/Time/Period

Position: 0750

Group: Segment Group 17 (Line Item)   Conditional (Dependent)

Level: 3

Usage: Conditional (Optional)

Max Use: 1

Purpose: A segment providing date, time information related to the line item, e.g. production date.

Dependency Notes:

Semantic Notes:

Comments:

Notes: This segment is used to indicate the expiry date or best before date of the product.

Suppliers are required to provide Expiry Date OR Best Before Date for all date-coded products.

Examples:

Product's Expiry Date is 30 November 2019
DTM+36:20191130:102'

Product's Best Before Date is 30 June 2019
DTM+361:20190630:102' .

Data Element Summary

	Data Element	Component Element	Name	Attributes	
M	C507		**DATE/TIME/PERIOD**	M	1
			Date and/or time, or period relevant to the specified date/time/period type.		
M		2005	**Date or time or period function code qualifier**	M	an..3
			Code qualifying the function of a date, time or period.		
		36	Expiry date		
			Date of expiry of the validity of a referenced document, price information or any other referenced data element with a limited validity period.		
		361	Best before date		
			The best before date.		
Must Use		2380	**Date or time or period value**	C	an..35
			The value of a date, a date and time, a time or of a period in a specified representation.		
Must Use		2379	**Date or time or period format code**	C	an..3
			Code specifying the representation of a date, time or period.		
		102	CCYYMMDD		
			Calendar date: C = Century ; Y = Year ; M = Month ; D = Day.		

		PCI Segment Group 22: Package Identification
Group:		
Position:	0990	
Group:	Segment Group 17 (Line Item)	Conditional (Dependent)
Level:	3	
Usage:	Conditional (Optional)	
Max Use:	1	
Purpose:	A group of segments identifying one specific package or a number of packages, their marks and numbers, measurements, quantities, date and time information and handling instructions.	
Notes:	A group of segments identifying one specific package or a number of packages, their marks and numbers, measurements, quantities and date and time information.	

Segment Summary

	Pos. No.	Seg. ID	Name	Req. Des.	Max. Use	Group: Repeat
M	1000	PCI	Package Identification	M	1	
Must Use	1040		Segment Group 23: Goods Identity Number	C		1

Segment:	**PCI** Package Identification			
Position:	1000 (Trigger Segment)			
Group:	Segment Group 22 (Package Identification)		Conditional (Optional)	
Level:	3			
Usage:	Mandatory			
Max Use:	1			
Purpose:	A segment specifying marking and labels used on individual packages or a range of packages.			
Dependency Notes:				
Semantic Notes:				
Comments:				

Notes: This segment is used to provide markings and labels information relevant to the product identified in the LIN segment.

Example:

The item is marked with a batch number
PCI+34E'

Data Element Summary

	Data Element	Component Element	Name	Attributes		
Must Use	4233		**MARKING INSTRUCTIONS CODE**	C	1	an..3
			Code specifying instructions for marking.			
		34E	Marked with EAN/UPC number (GS1 Code)			
Not Used	C210		**MARKS & LABELS**	C	1	
			Shipping marks on packages in free text; one to ten lines.			
Not Used	8275		**CONTAINER OR PACKAGE CONTENTS INDICATOR CODE**	C	1	an..3
			Code indicating the contents of container or package.			
Not Used	C827		**TYPE OF MARKING**	C	1	
			Specification of the type of marking that reflects the method that was used and the conventions adhered to for marking (e.g. of packages).			

Group: # GIN Segment Group 23: Goods Identity Number

Position: 1040
Group: Segment Group 22 (Package Identification)   Conditional (Optional)
Level: 4
Usage: Conditional (Required)
Max Use: 1
Purpose: A group of segments giving package identification numbers and, where relevant, delivery limitation information.
Notes: A group of segments giving package identification numbers.

Segment Summary

	Pos. No.	Seg. ID	Name	Req. Des.	Max. Use	Group: Repeat
M	1050	GIN	Goods Identity Number	M	1	

Segment: # GIN Goods Identity Number
Position: 1050 (Trigger Segment)
Group: Segment Group 23 (Goods Identity Number)   Conditional (Required)
Level: 4
Usage: Mandatory
Max Use: 1
Purpose: A segment providing identification numbers being applied to the packages despatched.

Dependency Notes:
Semantic Notes:
Comments:
Notes:
This segment is used to provide identification numbers relevant to the packaging of the current line item. Used where Batch Number is applicable to the item.

Example:

The item has a batch number of BA12980ZZ
GIN+BX+BA12980ZZ'

Data Element Summary

	Data Element	Component Element	Name		Attributes	
M	7405		**OBJECT IDENTIFICATION CODE QUALIFIER**	M	1	an..3
			Code qualifying the identification of an object.			
			BX Batch number			
			Unique number affixed by manufacturer to a batch of products produced under similar conditions.			
M	C208		**IDENTITY NUMBER RANGE**	M	1	
			Goods item identification numbers, start and end of consecutively numbered range.			
M		7402	**Object identifier**	M		an..35
			Code specifying the unique identity of an object.			
			Format: Alphanumeric			
Not Used		7402	**Object identifier**	C		an..35
			Code specifying the unique identity of an object.			
Not Used	C208		**IDENTITY NUMBER RANGE**	C	1	
			Goods item identification numbers, start and end of consecutively numbered range.			
Not Used	C208		**IDENTITY NUMBER RANGE**	C	1	
			Goods item identification numbers, start and end of consecutively numbered range.			
Not Used	C208		**IDENTITY NUMBER RANGE**	C	1	
			Goods item identification numbers, start and end of consecutively numbered range.			
Not Used	C208		**IDENTITY NUMBER RANGE**	C	1	
			Goods item identification numbers, start and end of consecutively numbered range.			

		Segment:	**CNT** Control Total

Segment: **CNT** Control Total
Position: 1140
Group:
Level: 0
Usage: Conditional (Required)
Max Use: 1
Purpose: A segment by which control totals may be provided by sender for checking by the receiver.
Dependency Notes:
Semantic Notes:
Comments:
Notes:

This segment shows the total count of line items in this shipment.

Example:

There are 3 product items in the shipment.
CNT+2:3'

Data Element Summary

	Data Element	Component Element	Name	Attributes	
M	C270		**CONTROL**	M	1
			Control total for checking integrity of a message or part of a message.		
M		6069	**Control total type code qualifier**	M	an..3
			Code qualifying the type of control of hash total.		
		2	Number of line items in message		
			Total count of LIN segments in the shipment.		
M		6066	**Control total value**	M	n..18
			To specify the value of a control quantity.		
Not Used		6411	**Measurement unit code**	C	an..3
			Code specifying the unit of measurement.		

Segment: # UNT Message Trailer
Position: 1150
Group:
Level: 0
Usage: Mandatory
Max Use: 1
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:

Example:

There are 41 segments within the UNH-UNT (1) loop inclusively.
UNT+41+1'

Data Element Summary

	Data Element	Component Element	Name	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:	1180
Group:	
Level:	0
Usage:	Mandatory
Max Use:	1
Purpose:	To end and check the completeness of an interchange
Dependency Notes:	
Semantic Notes:	
Comments:	
Notes:	Example:

UNZ+1+73920001'

Data Element Summary

	Data Element	Component Element	Name		Attributes	
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.

	Data Element	Component Element	Name		Attributes	
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.

Example DESADV – Shipment consists of two pallets

UNA:+.? '	
UNB+UNOC:3+SUPPLIER_GLN:14+9377779424865:14+190306:0730+78402++++1'	
UNH+1+DESADV:D:01B:UN:EAN007'	
BGM+351+25488+9'	Despatch Advice number 25488
DTM+137:20190306:102'	Despatch Advice created on 6th March 2019
DTM+11:20190306:102'	Goods left despatch point on 6th March 2019
DTM+17:20190307:102'	Estimated arrival date at Warehouse is 7th March 2019
RFF+ON:278156789'	Shipment relates to order number 278156789
RFF+CN:9900857'	Carriers Reference number is 9900857
NAD+BY+9377779424865::9'	Buying Company – Drakes Supermarkets
NAD+ST+210::92'	Warehouse Code
NAD+SU+8353296::92'	Drakes assigned supplier's code
CPS+1++1E'	Shipment Level
PAC+2++09::9+F:CHEP'	Shipment consists of 2 CHEP pallets
CPS+2+1+3'	1st Outer pack
PAC+1++09::9+F:CHEP'	Pallet CHEP
MEA+PD+AAA+KGM:45.00'	Pallet net weight is 45 kilos
PCI+33E'	1st pallet marked with SSCC 193106531002906599
GIN+AW+193106531002906599'	SSCC on the carton
PAC+28++CT'	Pallet contains 28 cartons
LIN+1++0886952779856:SRV'	Product identified by GTIN 0886952779856
QTY+12:28'	Despatch quantity is 28
CPS+3+1+3'	2nd Outer pack
PAC+1++09::9+F:CHEP'	Pallet CHEP
PCI+33E'	2nd pallet marked with SSCC 193106531002906789
GIN+AW+193106531002906789'	SSCC on the carton
PAC+15++CT'	Pallet contains 15 cartons
LIN+2++4059813738125:SRV'	Product identified by GTIN 4059813738125
QTY+12:15'	Despatch quantity is 15
DTM+36:20191231:102'	Product Expiry Date is 31st December 2019
PCI+34E'	Product is marked with a batch number
GIN+BX+BA125054CC'	Batch number is BA125054CC
CNT+2:2'	Total number of LIN segments in the shipment is 2
UNT+32+1'	
UNZ+1+78402'	

Disclaimer

All samples shown are for illustration purposes only and may not be true representation of actual values.