B2B Business Document Definition Implementation Guide

Proof of Delivery

(EANCOM – RECADV)

Version 1.00, 20th April 2010

CONTENTS

1   INTRODUCTION

1.1   Document Purpose & Use

For the implementation of the M&S EDI business documents (messages) we have provided an Implementation Guide to help you through your adoption of the M&S B2B EDI solution.

Provided for you is the Implementation Guide itself detailing the EDI messages and the business context and the circumstances in which they will be passed between yourself and M&S.

Also provided for you is the EDI Business Document Definition; this definition specifies the structure and content of the EDI message that M&S will exchange with you. At M&S we have adopted an Industry compliant EDI data standard to ensure ease of adoption for our Trading Partners. The standard adopted is EANCOM; it is an EDIFACT compliant data standard, and forms the basis of our Business Document Definitions.

In addition we have provided a Testing Compliance Specification, along with example testing files to ensure that your implementation is successful and compliant with what M&S will expect to exchange with you.

Together this information, the Implementation Guide, the Business Document Definition, and the Testing Compliance specification, will provide you with all the information you need to successfully and smoothly transition onto the M&S B2B EDI solution.

1.2   EDI Communication & Transmission

The M&S B2B EDI solution will enable M&S and you as a Trading Partner of ours to implement a fully automated, end-to-end B2B EDI solution.

This solution is supported for trading partners who have an existing EDI solution, or, who are transitioning to an EDI solution, and can send and receive the EDI messages into their business systems.

We have partnered with GXS to provide a leading-class B2B solution that enables us to seamlessly exchange business documents with you. The following diagram provides a high-level summary to this solution:

1.3   M&S EDI Business Document Definition

M&S have adopted the EDIFACT compliant EANCOM standard for its B2B EDI messages; all EDI messages sent and received must be encoded with this data standard as detailed in section EDI Business Document Definition.

Each of the specified Business Documents (or EDI messages) is defined by the Business Document Definitions, and forms the "data contract" between M&S and you our Trading Partner – as defined within this document.

The Business Document Definition provides you with the following information:

❖   The EANCOM data object to be utilised for each Business Document

❖   The EANCOM message segments and elements within those to be transmitted as part of any data exchange

- ❖ Implementation rules for each of the segments and elements
- ❖ The business definition of each element to be used
- ❖ The elements that are <u>mandatory</u> and those which are optional i.e. may NOT be passed
- ❖ The format of the data to be passed for each element

As part of your transition process onto the M&S B2B solution, GXS, our partner for this solution will assist you with any queries you may have regarding this implementation guide and Business Document Definition itself, or your implementation of those definitions. .

1.4   EANCOM Standard

M&S specify that for EDI communication the EANCOM standard MUST be utilised as the supported data standard and therefore MUST be supported by the Trading Partner (either directly or through 3rd party service).

For all new EDI Trading Partners to M&S, it is expected that EANCOM will be utilised. Trading Partners whom have existing EDI with M&S these communications will continue to be supported regardless of the information standard utilised. Where the opportunity provides it these non-supported information standards MUST be migrated to the EANCOM standard.

The definition of support is as follows:

- ❖ Any information exchange MUST relate to an EANCOM defined data model as listed by EANCOM 2002 Syntax 4
- ❖ Any data model utilised MUST conform to the EANCOM definition both schematically i.e. structure and semantically i.e. data format. This includes use of mandatory segments and elements, and adhering to data types and data representations
- ❖ Business level responses MUST be agreed to by M&S and the each Trading Partner and will be specified as part of the MS Message Implementation Guide (this document). Where utilised they MUST align to those specified by the EANCOM standard e.g. PROINQ and PRODAT
- ❖ Technical acknowledgements ARE expected to be exchanged for each information exchange (**see Technical Acknowledgement – CONTRL Implementation Guide**)

1.5   Message Flows

1.5.1   General Merchandise Supplier / Trading Partner

M&S has enabled electronic messages for its "buy" part of its supply chain; dependent on whether you trade directly or indirectly with us, you can expect to exchange the following business documents:

- ❖ Contract

  The contract contains an indication of quantity – it will not be a commitment to buy. For Direct suppliers, the commitment to buy will be via the purchase order.

  For Full Service Vendors, the contract will be updated with authorisation to cut, which in combination with the approved flow will be our commitment to buy.

- ❖ Purchase Orders & Purchase Order Amendments

  The purchase order will represent the formal commitment to buy. The original purchase order may be followed by subsequent updates via the Purchase Order Amendment document.

- ❖ Invoices or Self-Bill Invoices

  For Direct suppliers and FSVs (International), invoices for received Purchase Orders may be sent using the Invoice business document; other Full Service Vendors will be managed using self-billing where M&S will send you the Invoice.

- ❖ Credit / Debit Memo's

Credit / Debit notes will support adjustments to invoiced amounts where there are mis-matches between the Invoice and goods receipted.

The table that follows provides you with a summary of the M&S business documents, and those which you will receive depending on which supplier type you are.

Business Document	Direct	FSV Core Product Only	FSV Outlet Product	FSV Int'l Direct Deliveries
Contract	✓	✓	✓	✓
Purchase Order	✓		✓	✓
Purchase Order Amendment	✓		✓	✓
Invoice	✓			✓
Invoice Acknowledgement	✓			✓
Debit Note	✓			✓
Self-Bill Invoice			✓	
Self-Bill Credit Note			✓	

If you have any questions on determining which type of supplier you are, or which business documents you must exchange with M&S, or please contact us to further discuss the options for you.

1.5.2 Foods Supplier / Trading Partner

M&S has As part of the M&S to supplier trading process, as of the date of this Message Implementation Guide, M&S will utilise the following business documents for its Supplier Trading Partner transactions:

❖ Purchase Orders & Purchase Order Amendments

The purchase order will represent the formal commitment to buy. The original purchase order may be followed by subsequent updates via the Purchase Order Amendment document.

❖ POD (Proof of Delivery)*

The proof of delivery will notify the suppliers of the actual quantities received by M&S. Suppliers should submit invoices based on these POD quantities.

❖ Invoices

Invoices for received Purchase Orders may be sent using the Invoice business document

❖ Invoice Acknowledgement

All invoices sent to M&S will be acknowledged. The acknowledgement will provide indication to the M&S processing success or failure. Where the Invoice was not successfully processed it MUST be resubmitted with the required changes.

❖ Credit / Debit Notes

Credit / Debit notes will support adjustments to invoiced amounts where there are mis-matches between the Invoice and goods receipted.

For Food suppliers, all messages will be available in both EANCOM and TRADACOM standard.

In addition to the EDI messages being exchanged above, Food Chilled suppliers have been asked to implement the PAV (pick accuracy verification) system and processes, using RFID. Some Food suppliers may already be using PAV. To support the changes we are making, the PAV messages (delivery note messages) will also need to be updated by Food suppliers.

The following provides reference to the information exchanges detailed:
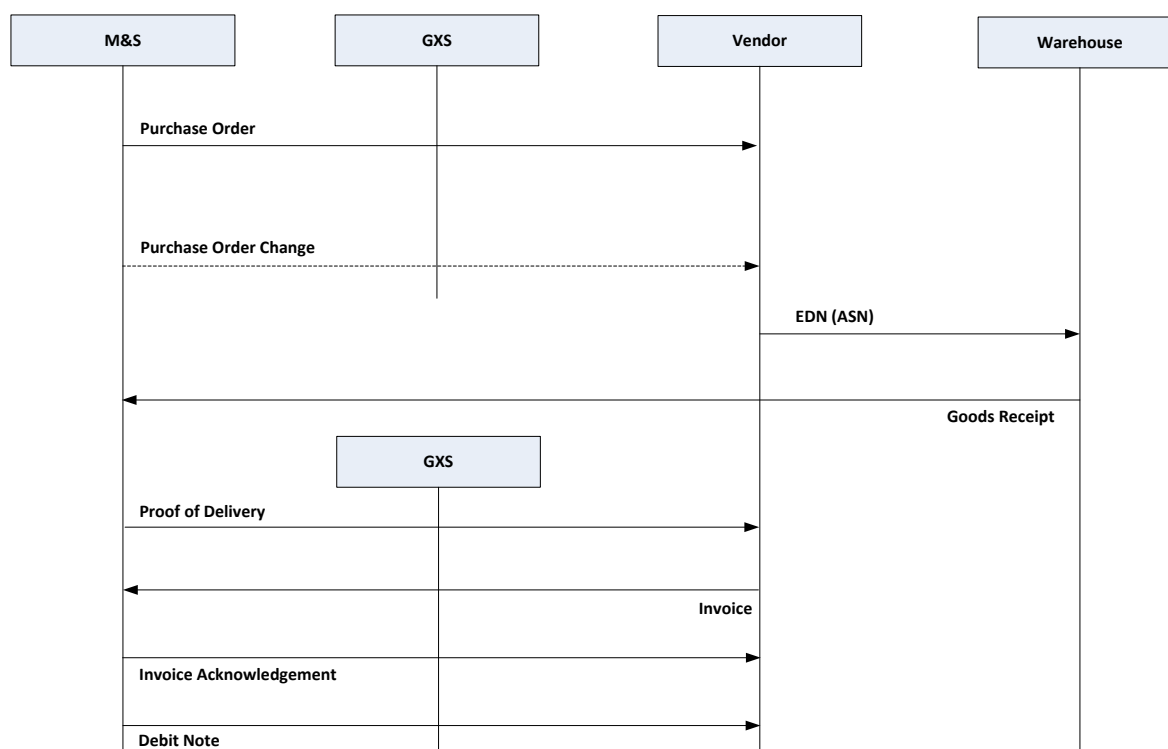
*Note – EDN / ASN is only applicable to Food Suppliers

** Note – For GM suppliers Self-Billing is also available for Invoicing.

1.6   Acknowledgements

1.6.1   Technical Acknowledgements

The following provides summary to the use of EANCOM technical acknowledgements:

- ❖ Technical acknowledgements ARE expected to be exchanged for each information exchange – this requirement is to provide clear demarcation of data ownership and to support the process of exception reporting.

- ❖ An acknowledgement of this type MUST only be exchanged when the exchange being acknowledged is a business document; a technical acknowledgement is NOT to be sent in response to another technical OR functional acknowledgement

- ❖ A technical acknowledgement SHOULD detail both positive and negative acceptance of each information exchange

- ❖ The technical acknowledgement is to relate to the information exchange (data file) level i.e. a single acknowledgement for each data file exchanged. Where exceptions exist within a individual data record within the file the acknowledgement MUST specify this level of granularity

- ❖ The CONTRL data model MUST be used for ALL technical acknowledgements

1.6.2   Functional Acknowledgements

The following provides summary to the use of EANCOM functional acknowledgements:

- ❖ Functional acknowledgements ARE recommended to be exchanged for each information exchange – this requirement MUST be agreed to by each Trading Partner and specified by the DOMD.

- ❖ An acknowledgement of this type MUST only be exchanged when the exchange being acknowledged is a business document; a functional acknowledgement is NOT to be sent in response to another functional acknowledgement

❖ A functional acknowledgement SHOULD detail both positive and negative functional acceptance of each information exchange

❖ The functional acknowledgement SHOULD relate to the information exchange (data file) level i.e. a single acknowledgement for each data file exchanged

❖ The APERAK data model MUST be used for ALL functional acknowledgements

1.7 Interface Definitions

The following provides reference and explanation to the interface definitions:

Property	*Explanation*
Communication Direction	Details the direction in which the information will be transmitted: M&S to 3rd Party – M&S will be the sender of the data 3rd Party to M&S – M&S will be the receiver of the data
EANCOM Version	The version of the EANCOM standard that is to be utilised. All documents will refer to the following version: EANCOM® 2002 Syntax 4 (based on UN/EDIFACT D.01B Syntax 4)
EANCON Document Name	The business name of the EANCOM document to be used as part of the information exchange
EANCOM Document	The EANCOM short name for the business document to be used as part of the information exchange
EANCOM Document Version	The version of the business document to be used
Document Scope	The scope of the data to be passed as part of the information exchange. This will be either Full Record. All data elements associated to the business document will be passed regardless of whether those elements have changed. Changed Elements Only. Only the key elements and those which have changed will be transmitted.
Transmission Frequency	The frequency of when the business documents will be sent and expected to be received Real-time. A document will be sent and processed end-to-end in real-time, or near real-time Daily. Any document sent or received by M&S will be once per day. If more than 1 document is sent or received during that daily period, all documents will done so at the same time
Data Object Definition Reference	Reference to the data object definition within the Information Exchange Data Definition Document.

1.8 Assuring your implementation

Once you have finalised your implementation of the M&S Business Document Definition, GXS will be on-hand to test both compliance of your implementation, along with ensuring that you can successfully connect to your secure mailbox. GXS will work with you to ensure your on-boarding is a success and resolve and issues you encounter with your implementation.

Once these final checks and testing have been completed you will be ready to start exchanging EDI messages with M&S electronically and soon start realising the benefits of using our electronic trading solution.

1.9   M&S Electronic trading solution Support

During the exchange of business documents between M&S and yourself there may be circumstances where the documents are not successfully transmitted, or the data received is not accepted / compliant to that which is expected by either of our systems.

Where business documents failed to be processed by M&S, we will notify you immediately either through automated acknowledgements detailing what the technical or data problem was, or via our business support team who will contact your designated business representative.

If you encounter any problems receiving business documents from M&S, you can contact our support service.

Important: If you have any queries regarding the receipt and processing of the business document, please ensure that the technical acknowledgement (CONTRL) message has been sent / received by your company. The support team will request the unique acknowledgement identification number for the transaction to ensure that we can properly investigate the reported.

2 MESSAGE DEFINITION

The sections that follow detail the specification of the business document that is the subject of this Message Implementation Guide that M&S will support for electronic information exchange.

2.1 Message Data Flow Summary

 The Proof of Delivery EDI Business Document will distribute the Proof of Delivery for goods delivered by you in to the M&S warehouse. Once M&S receives and validates the good receipt the POD will be sent to vendor. As detailed by the definition in this section, the Proof of Delivery will contain:

- ❖ General information about the buyer and supplier including unique identifiers
- ❖ The Proof of Delivery Date.
- ❖ Purchase Order Number & Date
- ❖ Department Number & Name
- ❖ Vendor Factory Number

The items receipted into the warehouse detailing

- : Items No.
- : Item Description
- : UPC & Measurement Unit Code
- : Quantity Receipted
- : Over Delivered Quantity (If Applicable)

For every POD created the full Proof of Delivery record will be transmitted. Any amendments to the Proof of Delivery due to an adjustment in the warehouse will be sent via the POD. If there are any adjustments to the goods receipted, the amendment will be sent within 24 hours of the original POD.

M&S	GXS	Vendor

Proof of Delivery [RECADV]   →   Proof of Delivery [RECADV]   →
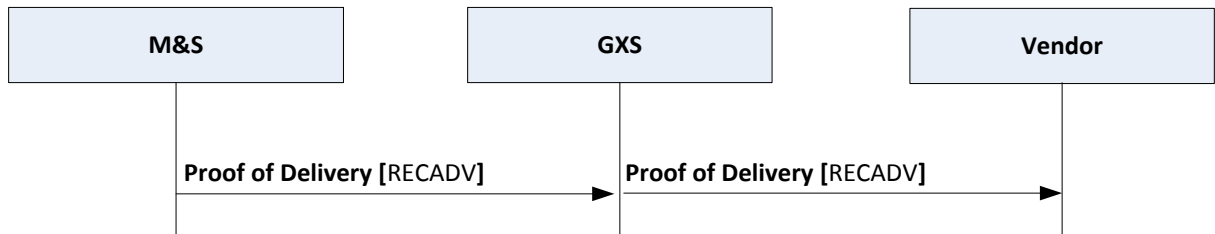
2.2 Message Use-Cases

The Proof of Delivery message will be used for the following:

- Proof of Delivery Creation

  M&S will send you, the trading partner a Proof of Delivery business document with a document code of "632" – Proof of Delivery Creation. This business document will represent a new Proof of Delivery. The POD will contain receipted items only – all items will be at line item level.

2.3 Message Specification Reference Guide

The following table provides summary detail to this business document – trading partner must ensure that the correct version of the EANCOM message template is used for its implementation.

Property	Value
Communication Direction	M&S to Trading Partner
EANCOM Version	EANCOM® 2002 Syntax 4
EDIFACT Version Reference	UN/EDIFACT D 2001B Syntax
EANCON Document Name	Proof of Delivery
EANCOM Document	RECADV
EANCOM Document Version	001
Document Scope (Full Record/Changed Elements Only)	Full Record
Transmission Frequency	Daily

2.4 Message Definition Summary

Each Business Document Data Definition guide provides the following information:

- Chg Flag. The Chg Flag provides identification of any changes from version to version. Y = Field has changed, N = No Change
- Segment. The EANCOM segment within which the field to populated exists.
- Field/Element Reference. The EANCOM field name to be populated and exchanged.
- Business Description. Business description of the field / element to be used by M&S.
- Min-Max. The number of occurrences of the field being populated.
- Data Type and Length. The data type of the field of the field being populated and the maximum length of the data that is to be expected for the specified field.
- Example Values. Any example values that will be populated by M&S or that M&S would expect to receive in the case where the message is sent by the trading partner.

2.5 Message Definition Guide

2.5.1 EANCOM Interchange Header

Every EANCOM message will require an EANCOM Interchange Header. The interchange MAY contain one or more EANCOM messages of the same type.

This segment is used to envelope the interchange, as well as to identify both, the party to whom the interchange is sent 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, both the address where delivery is to take place and the address from where the envelope has come.

The Interchange Header is defined in the table that follows:

Segment	Field Ref	Field Length	Description	Min-Max	Example Value	Notes

	Segment	Field Ref	Field Length	Description	Min-Max	Example Value	Notes
N	**UNB**			**INTERCHANGE HEADER**	**1-1**		
		S001		Syntax identifier			
N		0001	M a4	Syntax identifier	1-1	UNOA	Definitions the ISO encoding standard of the data.
N		0002	M an1	Syntax version number	1-1	4	
N	**UNB**	**S002**		**INTERCHANGE SENDER**	**1-1**		
N		0004	M an..35	Interchange sender identification	1-1	50120689 99993	Unique Company EDI Identifier / Mailbox No.
N		0007	C an..4	Identification code qualifier	1-1	14	
N	**UNB**	**S003**		**INTERCHANGE RECEIVER**	**1-1**		
N		0010	M an..35	Interchange recipient identification	1-1	00012345 6789	Unique Company EDI Identifier / Mailbox No.
N		0007	C an..4	Identification code qualifier	1-1	14	
N	**UNB**	**S004**		**INTERCHANGE CONTROL REFERENCE**	**1-1**		
N		0017	M an..35	Date of Interchange	1-1	0090903	CCYYMMDD
N		0019	C an..4	Time of Interchange	1-1	1032	HHMM
N	**UNB**			**INTERCHANGE CONTROL REFERENCE**	**1-1**		
N		0020	M an..14	Unique reference identifying the interchange. Created by the interchange sender.	1-1	00000000 000161	Unique message interchange identifier.
N	**UNB**			**APPLICATION REFERENCE**	**1-1**		
N		0026	C an..14	Message identification if the interchange contains only one type of message.	1-1	RECADV	Reference of the EANCOM business document

An example of the Interchange Header is provided for reference:

2.5.2 EANCOM Business Document Definition

The Proof of Delivery message is implemented using the EANCOM RECADV data template. Further information regarding the base template can be found at the following location:

http://www.gs1.se/eancom_2002/ean02s4/experts/index.htm

The M&S usage of that template is defined below:

	Segment	Field Ref	Field Length	Description	Min-Max	Example Value	Notes
N	**UNH**			**Message header**	**1-1**		
N		0062	AN 14	Message reference	1-1		

	Segment	Field Ref	Field Length	Description	Min-Max	Example Value	Notes
				number			
N		**S009**		**MESSAGE IDENTIFIER**	**1-1**		
N		0065	AN 6	Message type	1-1	RECADV	Receiving advice message
N		0052	AN 3	Message version number	1-1	D	Draft version/UN/ED IFACT Directory
N		0054	AN 3	Message release number	1-1	01B	Release 2001 - B
N		0051	AN 3	Controlling agency, coded	1-1	UN	UN/CEFACT
N		0057	AN 6	Association assigned code	1-1	EAN005	EAN version control number (EAN Code)
N		0110	AN 6	Code list directory version number	1-1		
N	BGM			**Beginning of message**	**1-1**		
N		**C002**		**DOCUMENT/MESSAGE NAME**	**1-1**		
N		1001	AN 3	Document name code	1-1	632	632 - Goods receipt
N		**C106**		**DOCUMENT/MESSAGE IDENTIFICATION**	**1-1**		
N		1004	An 35	Receiving Advice number assigned by the document sender	1-1	2010000401	
N		1225	AN 3	Message function code	1-1	9	9-Original
N	DTM			**Date/time/period**	**1-1**		**Goods Receipt Date**
N		**C507**		**DATE/TIME/PERIOD**	**1-1**		
N		2005	AN 3	Date or time or period function code qualifier	1-1	50	Goods receipts date/time
N		2380	AN 35	Date or time or period value	1-1	20100426	
N		2379	AN 3	Date or time or period format code	1-1	102	CCYYMMDD
N	SG4				**1-1**		**M&S Buying Party**
N	NAD			**Name and Address**	**1-1**		
N		3035	AN 3	Party function code qualifier	1-1	BY	BY = Buyer
N		**C080**		**Party Identification Details**	**1-1**		
N		3036	AN 35	Party name	1-1		
N	SG6				**1-1**		
N	CTA			**Contact information**	**1-1**		**Buying Dept Contact**
N		3139	AN 3	Contact function code	1-1	BJ	Department or person

	Segment	Field Ref	Field Length	Description	Min-Max	Example Value	Notes
							responsible for processing purchase order
N		C056		DEPARTMENT OR EMPLOYEE DETAILS	1-1		
N		3413	AN 17	Department or employee name code	1-1		Site Number
N		3412	AN 35	Department or employee name	1-1		
N	SG6				1-1		
N	CTA			Contact information	1-1		Warehouse Site Contact
N		3139	AN 3	Contact function code	1-1	GR	Goods receiving contact
N		C056		DEPARTMENT OR EMPLOYEE DETAILS	1-1		
N		3413	AN 17	Department or employee name code	1-1		
N		3412	AN 35	Department or employee name	1-1		
N	SG4				1-1		Supplier Party
N	NAD			Name and Address	1-1		
N		3035	AN 3	Party function code qualifier	1-1	SU	SU = Supplier
N		C080		Party Identification Details	1-1		
N		3036	AN 35	Party name	1-1		
N	SG16			Receiving Advice Detail	0-N		1 occurrence / consignment receipted
N	CPS			Consignment packing sequence	1-1		
N		7164	AN 35	Hierarchical structure level identifier	1-1	1	
N	SG22			Line item details of the products	0-N		
N	LIN				1-1		
N		1082	AN 6	Line item identifier	1-1	00010	
N		C212			1-1		
N		7140	AN 35	Item identifier	1-1	4270379	UPC Value
N		7143	AN 3	Item type identification code	1-1	SRV	EAN.UCC Global Trade Item Number
N	QTY				1-1		
N		C186		Received quantity	1-1		
N		6063	AN 3	Quantity type code qualifier	1-1	48	Received quantity
N		6060	AN 35	Quantity	1-1	100	

	Segment	Field Ref	Field Length	Description	Min-Max	Example Value	Notes
N		6411	AN 3	Measurement unit code	1-1	PA	Packets
N	QTY				1-1		
N		C186		Received quantity	1-1		
N		6063	AN 3	Quantity type code qualifier	1-1	59	Unit per tray as requested on Purchase order
N		6060	AN 35	Quantity	1-1	90	
N		6411	AN 3	Measurement unit code	1-1	PA	Packets
N	QVR			Quantity Variance	0-10		Over Delivery & Free Stock
N		C279			1-1		
N		6064	N 15	Quantity variance value	1-1	30	
N		6063	AN 3	Quantity type code qualifier - Total qty not requested by M&S which is taken as free stock	1-1	10	Over Delivered quantity
N		4221	AN 3	Discrepancy nature identification code	1-1	AC	Over-shipped
N	DTM			Date/time/period	0-5		
N		C507		DATE/TIME/PERIOD	1-1		
N		2005	AN 3	Date or time or period function code qualifier	1-1	4	Order Date
N		2380	AN 35	Date or time or period value	1-1		
N		2379	AN 3	Date or time or period format code	1-1	20100511	CCYYMMDD
N	SG28				1-1		
N	RFF			Reference	1-1		
N	C506			Package identification	1-1		Product description
N		1153	AN 3	Reference code qualifier - Marking instructions code	1-1	ZZZ	Mutually defined reference number
N		1154	AN 70	Reference identifier - Shipping marks description	1-1		Shipping marks description
N	UNT			Message trailer	1-1		
N		0074	N 10	Number of segments in a message	1-1		
		0062	AN 14	Message reference number	1-1		

An example of the Interchange Detail segments is provided for in Section 4 Understanding EDIFACT / EANCOM for reference.

2.5.3 EANCOM Interchange Trailer

Every EANCOM message will require an EANCOM Interchange Trailer. The UNZ segment is used to provide the trailer of an interchange.

The Interchange Trailer is defined in the table that follows:

	Segment	Field Ref	Field Length	Description	Min-Max	Example Value	Notes
N	**UNZ**			**INTERCHANGE TRAILER**	**1-1**		
N		0074	M n..6	Number of messages or functional groups within an interchange.	1-1	1	
N		0002	M an14	Interchange control reference	1-1	00000000000161	Identical to DE 0020 in UNB segment

An example of the Interchange Header is provided for reference:

2.6 Guidance Notes

2.6.1 Address Information

M&S will send all the relevant addresses on the POD creation where possible. Those addresses marked optional (0-1) may be transmitted or changed on this POD Amendment Document.

2.6.2 Item Identifiers

M&S will distribute unique product codes (UPC) for each of its items. In the short-term these will be 8 digit codes, however will transition to fully qualified 14 digit GTIN compliant with GS1 product identifiers. The target 14 digit GTIN will contain the 8 digit M&S UPC code for ease of future transition. Your implementation must be able to manage the future requirement.

2.6.3 Line Items / Sub-Line Items

For single article-based Proof of Deliveries, only line items will be published on the Proof of Delivery detailing the Variant article – M&S will not send the Generic article UPC as a line item. Please note that the Variant line items will reference a parent line item which is an originating reference to the Generic article.

2.6.4 Item Line Qty

The Qty segment on the line item provides the total quantity of singles for that line item that have been receipted into the warehouse.

2.6.5 Quantity Variance (QVR)

This segment is used to specify quantity variances. Explain the difference between delivered quantity and ordered quantity. QVR will only be populated under delivery quantity.

3 COMPLIANCE TESTING

3.1 Test Cases

The following test cases are required for the testing of this EDI Business Document.

3.1.1 POD_RECADV_001

This test condition is to test ensure the implementation compliance for the POD Creation functional use case. Your implementation must be able to process the example test file. Note: at the time of creation there maybe varying levels of information available on the Proof of Delivery; all mandatory fields will be present.

Property	Definition / Reference
Test Case Reference	POD_RECADV_001
Business Context	Create Proof of Delivery – Singles
Functional Requirement	The creation of a Proof of Delivery for a Food Supplier for singles only
Applies To	Ambient Perishable Wine Frozen
Test Case Definition	Proof of Delivery sent to GXS and Vendor mailbox determined by Vendor No. Proof of Delivery forwarded to Vendor and created within Vendor business system. Proof of Delivery contains the following information: - Vendor Number, Name & Address - Buyer Name & Address - Vendor Factory Number - POD Date - Purchase Order Number - Purchase Order Date - Dept No. & Name - Quantity Receipted - Over Delivered Quantity (If Applicable) - Items No. & Description - UPC & Measurement Unit Code
Outcome	Proof of Delivery sent to Vendors via GXS. Technical acknowledgement is received from the Vendor acknowledging successful delivery of the message to the Vendor.
Test File Reference	POD_RECADV_001.edi POD_RECADV_001.edi

4 UNDERSTANDING EDIFACT / EANCOM

4.1 WHAT IS EDIFACT?

UN/EDIFACT: United Nation's Directories 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, particular as related to trade in goods and services, between independent, computerised information systems.
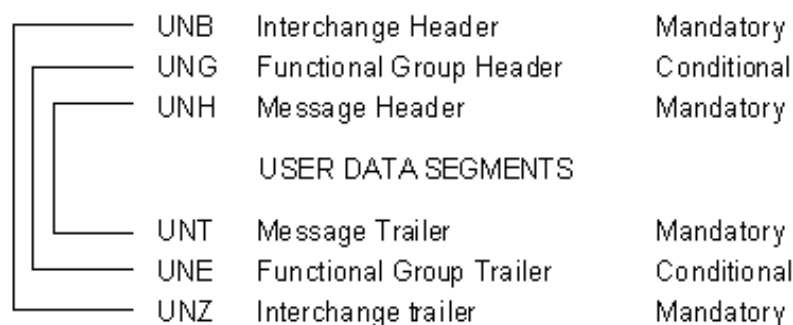
All EANCOM® 2002 messages used by Marks and Spencer are based on the UN/EDIFACT directory D.01B which was released by UN/CEFACT in 2001.

4.2 EANCOM Message Structure

Each EANCOM message will have the following structure:

- ❖ Interchange / Envelope Header (UNB)
- ❖ Message Header Section (UNH)
- ❖ Detail Section (Any)
- ❖ Summary Section (UNT)
- ❖ Interchange / Envelope Trailer (UNZ)

The structure is shown the figure that follows:

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

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 and will contain the business data i.e. contract, Proof of Delivery etc.
- ❖ 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 Proof of Delivery

4.2.1 Segments and Segment Groups

The same segment type may occur in more than one of the message sections, for example 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. The following taken from the EANCOM standard itself provides reference to the message structure with segments and segment groups.
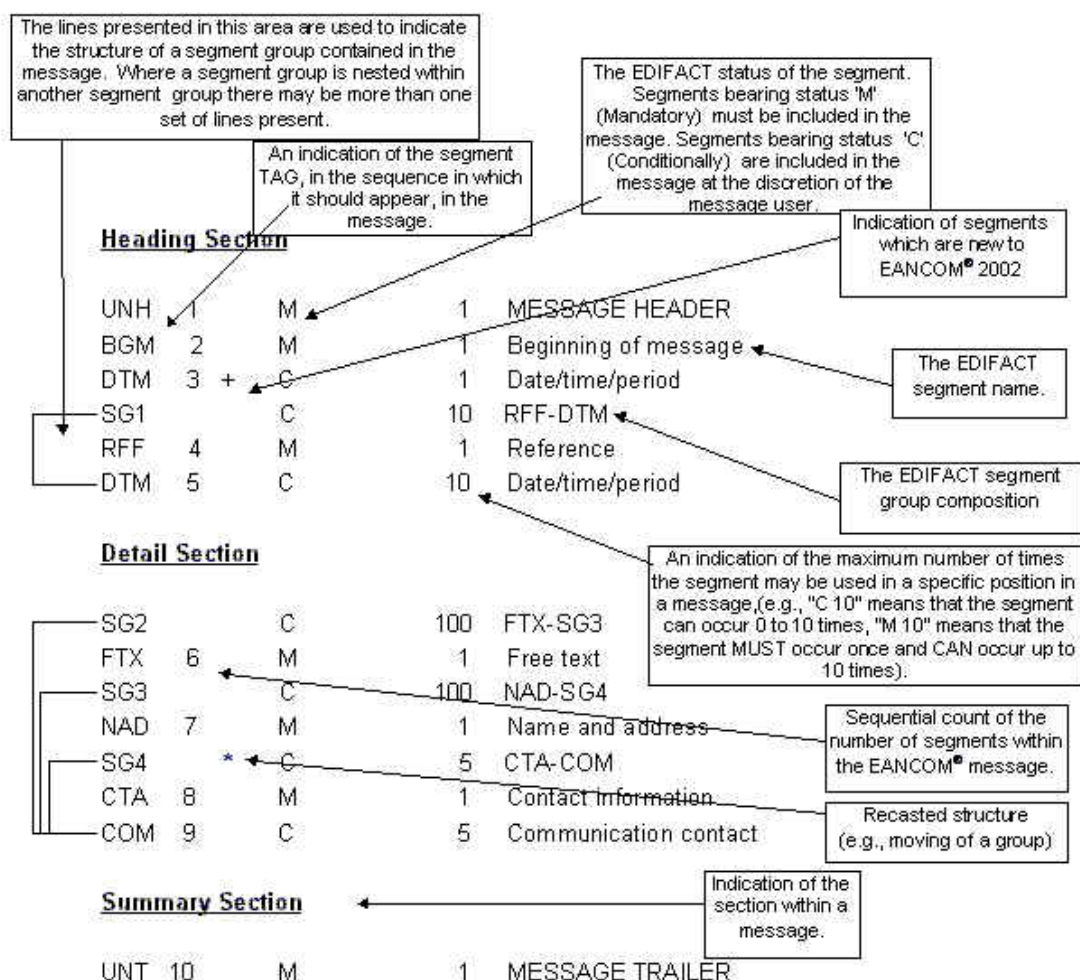
A segment consists of the following:

- ❖ A segment tag: identifies the segment type
- ❖ Data element separators
- ❖ Simple and/or composite 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.

4.3 Example EANCOM Message

4.3.1 RECADV

Provided for reference is an example EANCOM message – note this is an example only.

Note – This is not currently available, however will be published soon.

5   VERSION CONTROL

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